DEAR FRIENDS

THE FUTURE IS BRIGHT FOR THE COLLEGE

Over the last 18 months, our faculty, students, alumni and supporters participated in the development of our strategic plan as part of the university’s strategic planning process—Imagine 2023. In this process we revised our mission and vision statements, which I want to share with you.

Mission: The College of Pharmacy and Allied Health Professions provides high-quality, interprofessional, student-centered education; fosters discovery through innovative research and scholarship; and advances the provision of health care.

Vision: To be a premier college for innovative, high-quality pharmacy and allied health professions education, research, scholarship, service and patient care.

These statements were created with great care and embody our focus and expectations. Along with this mission and vision, we have created 11 goal statements and 34 accompanying strategies that comprise our strategic plan. In this plan, we have challenged ourselves in every academic program we offer, the services we provide and the research/scholarship we carry out. This plan will truly stretch our efforts and challenge our thinking. The many accomplishments overviewed in the magazine help form the foundation for these aspirations.

It only takes a few minutes of leafing through the pages of this magazine to recognize the excellence within our college. What resonates most with me, and stands out in each page of this magazine, is the commitment of our graduates, students and faculty to make life better for people through their hard work. This is seen in the work of our students on their trip to Honduras, Ann Byre’s speech to the students at convocation, Megan Maddox’s message to our first-year pharmacy students at the White Coat Ceremony, and Cindy Huether’s commitment to advancing the MLS program.

This commitment to make a difference in the world is also recognized through the numerous awards given to students, faculty and alumni and noted throughout the magazine. Specifically, I want to call attention to the Gary Karel Lecture Award received by Provost Dennis Hedge, and the Rashtriya Gaurav (National Glory) Award presented to Chandradhar Dwivedi. Both of these gentlemen were great leaders within the college and impacted generations of graduates. Their legacy continues as illustrated by these awards.

The energy created by working with so many committed individuals is infectious, and together we aspire to achieve our vision and strategic plan. I am confident of our success given the tremendous talent of our students and faculty and the support of our generous alumni and friends.

Jane Mort, Pharm.D.
Dean and Professor
College of Pharmacy and Allied Health Professions

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John Kappes received the college’s Teacher of the Year Award as selected by the students.
Recounting the successes occurring within the SDSU College of Pharmacy and Allied Health Professions could be like telling the story that never ends.

Just a few gems:
- First-time pass rates of 98 to 100 percent on the national licensing exam for every Pharm.D. graduating class;
- a well-equipped, state-of-the-art teaching and research building that is less than 10 years old;
- funding for three endowed faculty members; and
- a competitive application process that awards admission to only top-performing students.

Add to that the growing enrollment in the medical laboratory science and Master of Public Health programs and million-dollar funding of faculty research.

It’s hard to find an area in which the college hasn’t had success and it’s a success built on the foundation of tradition.

Therefore, it should not be surprising to find that the college is now headed by someone who has been instrumental in its success since 1986. On April 11, the university announced that interim dean Jane Mort had been selected to continue as the permanent dean, ending a process that began in May 2016 when Dennis Hedge moved to acting provost.

“As we conducted the search process, it was clear that we already had an excellent candidate for the position who was serving as our interim dean,” Hedge said.

Mort, a native of Pawnee City, Nebraska, has been on the faculty since 1986 and has developed a reputation for excellence in curriculum design, assessment and academic program accreditation. Her work through the decades is a major reason for the college’s continued success, and she understands what it will take to continue to be successful.

“Jane’s vision for the college and her leadership abilities will keep it among the very best in the nation,” said Hedge, now provost and vice president for academic affairs.

Mort, a 14-year member of the college’s executive team, agrees that the college is on a “great trajectory,” but adds, “challenges come up all the time. We need to not only keep pace with those changes but be leaders. For example, we are revising our curriculum and making our labs more progressive and dynamic to meet the changing needs of our profession.”

She is the college’s 14th dean and is managing a college that is growing in its diversity of programs.

“Joined Faculty in ’86”

For example, the school is no longer the college of pharmacy. Its name was changed in May 2016 to reflect the addition of medical laboratory sciences, a well-established university program that operated previously under the College of Arts and Sciences, and the Master of Public Health, an online program established in January 2015.
There also is the Ph.D. in Pharmaceutical Sciences program that collaborates with the growing research work of the pharmaceutical sciences faculty.

“It’s an exciting time because of the variety of programs,” Mort said. “I think each is on a very positive course, and we have great people in each. As the work of our college becomes more complex, as dean you need to step back and focus on supporting each program’s efforts by providing general guidance, advice and mentorship. It is too complex to micromanage. You rely on your leaders to take care of the details and keep you informed.”

CHANGES HAPPENING IN LABS

Of course, there are many details the dean must track. For instance, the two teaching labs in Avera Health and Science Center are being renovated this summer.

“One is to be revised into a compounding lab. We’re removing chemistry benches and creating seating for students to work in groups. We also will have sterile and nonsterile compounding areas.
“The other lab will have six counseling rooms and a community pharmacy area with a robot, counseling area and pickup and drop-off windows that closely simulate reality. In the northwest corner will be a hospital room with our SimMan™ and advanced computer monitoring equipment that will improve our ability to demonstrate and observe the impact of treatments,” Mort said.

In addition to physical changes, the revised curriculum also will bring new lab exercises. The Pharm.D. program has added interactive labs with faculty from pharmaceutical sciences and pharmacy practice departments developing integrated activities for the P1, P2 and P3 students. The new courses are designed to help students use content from individual courses to solve medication problems, she said.

A capstone course is being added for P3 students to ensure their skill level is adequate to begin rotations the following summer, Mort said.

**ENDOWED FACULTY ARRIVING**

This summer the college also hopes to complete the search for the Haarberg Endowed Chair, with the new cancer researcher joining the faculty by this fall. To accommodate the scientist, nearly 400 square feet of lab space will be carved out of two restrooms and a closet. “We have fully utilized our currently available research lab space,” Mort said.

One researcher who doesn’t require bench lab space is Sharrel Pinto, the Hoch Endowed Professor whose expertise is in community practice.

“Right now she is meeting practitioners,” Mort said of Pinto, who started April 2 after a distinguished 13-year career at the University of Toledo. “She knows how to scientifically test community practice innovations and frame the information in a way that speaks to people who fund this type of research.

“That’s going to impact our education because we will provide opportunities for students to participate in these research efforts and engage in new practice activities.”

**LAB SCIENCE, PUBLIC HEALTH PROGRAMS GROW**

The medical laboratory science program looks to have its first full class (24 students) in the four years it has been within the college. “We came close this year (23 students),” Mort said. “There is a tremendous need for MLS practitioners in the state. We only meet about a third of the need in our state. It’s a wonderful profession that addresses the need for high-quality health data that is fundamental to making sound health-care decisions.”

Long-term, the college would like to create a master’s in medical laboratory science, but that will take resources to expand from the current four faculty members.

The Master of Public Health program “has grown dramatically” from its original 11 students three years ago to 71 now. A joint effort with the University of South Dakota, the program is undertaking the self-study process for accreditation and will be implementing a new curriculum this fall, Mort said. Faculty members hail from several SDSU colleges.

All told, the dean oversees a staff of 45 faculty members plus 11 support personnel and a $10 million budget.

“To be successful in this role, you must be passionate about the programs and committed to high-quality work,” said Mort, who has a history of demonstrating commitment, beginning with her initial hire in 1986 as an assistant professor of clinical pharmacy. “I came to SDSU because of my desire to optimize health care for geriatric patients. I wanted to share that passion with students.”

Now that passion is leading as dean.

“My career isn’t something I charted, but I’ve had a journey fueled by the encouragement I have received to serve as a leader. I have been open to those requests to serve in leadership and I’ve grown through those experiences.”

*Dave Graves*
What mark would Jane Mort like to leave as dean of the College of Pharmacy and Allied Health Professions?

“I want to help take our work to the next level. This goal involves all aspects of our mission, including evolution of our strong academic programs, advancement of practice activities across the state and region, and growth of our research efforts.

“Specifically, I see great opportunities in building on the generosity of our alumni in the Markl, Haarberg and Hoch endowed positions, which ideally will grow to support centers focused on cancer research or innovative practice,” Mort said less than a month into a job for which she has spent a lifetime preparing.

One mark Mort has already made as the college’s 14th dean is she is the first female dean. Mort, who served two years as interim dean before being announced as the permanent dean April 11, says the gender distinction is a milestone in the college’s history. “When you look at the demographics of our college, it certainly has shifted over time.”

When Mort joined the faculty in 1986, the demographic swing was just underway.

Apart from a few years during World Wars I and II when male enrollment was low, the first year the college had more female graduates than males was 1984 (15 males/19 females). In 1985, the count was 12 males, 22 females. The last year for a male majority was 1986 (23 males/20 females). Since the college started admitting 80 students per class early this decade, the split has been fairly consistent at 30 males and 50 females.

The college’s female leaders include: Teresa Seefeldt, acting assistant dean for academic affairs, filling the post Mort held before being interim dean; Jodi Heins, pharmacy practice assistant department head; and Mary Beth Fishback, coordinator of the Master of Public Health program. And one of the college’s new endowed faculty members also is female—Sharrel Pinto, an expert in community practice.

Mort is an expert in curriculum design, assessment and academic program accreditation.

Among her noteworthy achievements:
• Leading the development of the entry-level and Post BS Pharm.D. programs;
• Creating a three-tier academic assessment plan that led to publications, national presentations and consultation to other colleges; and
• Leading all three of the college’s most recent self-studies and leading the curriculum and assessment portion of the college’s self-studies on five occasions.

Seefeldt, who had Mort as a faculty member and worked 13 years with her as a colleague, said, “Jane’s broad experience in pharmacy education is a fantastic asset to the college. In particular, her background and leadership in accreditation, assessment and curriculum will be very important in advancing the college’s academic programs.

“She has also served as a formal and informal mentor to many faculty. I personally have learned a lot from Jane and her mentorship has been critical in my professional development.”

Mort said, “My academic experience is obviously a feature of who I am. My innovative nature is one of my strengths. We created a new way to structure assessments that received national recognition.” Presentations were given at the American Association of Colleges of Pharmacy Annual Meeting and the plan was presented in journals such as the American Journal of Pharmaceutical Education.

When coupled with qualities like integrity, work ethic, vision, trust and an understanding of the college’s cultures, it’s not hard to see why Mort emerged as the new dean.

CAREER (ALL AT SDSU)
• Dean (2018-Present)
• Interim Dean (2016-2018)
• Associate Dean for Academic Programs (2010-2017)
• Coordinator of Assessment (2003-2010)
• Coordinator for West River Clinical Education (1997-2003)
• Acting Head of Clinical Pharmacy Department (July 2000-December 2000)
• Professor of Pharmacy Practice (1996-Present)
• Associate Professor of Clinical Pharmacy (1991-1996)
• Assistant Professor of Clinical Pharmacy (1986-1991)

EDUCATION
• University of Nebraska, prepharmacy; University of Nebraska Medical Center, Pharm.D., 1985
• ASHP Accredited Residency at the University of Iowa Hospital and Clinics, 1986

SELECTED ACCOMPLISHMENTS
• Received the SDSU April Brooks Woman of Distinction Award in administration, 2018.
• Named Distinguished Scholar for the college at the 2011 Faculty Celebration of Excellence.
• College of Pharmacy Faculty Recognition Award for Special Service (2002, ’00)
• College of Pharmacy Faculty Recognition Award for Classroom Teaching (1999, ’93)
• Fellow in the American Society of Consultant Pharmacists
• Presented on Antipsychotic Medication Use in U.S. Nursing Homes at the 2015 Alzheimer’s Disease Congress in London.

COMMUNITY SERVICE
• Serves on the F.O. Butler Board of Trustees, which honors efforts of SDSU staff and faculty.
• Writes for newsletter of the South Dakota chapter of the National Parkinson Foundation.
• Past member of the Dakota Care Hospice Board, Brookings.
Taking a year or a semester to study abroad typically isn’t an option for a pharmacy student, but there are international opportunities.

Each year P4 students can apply for a three-week international rotation in Europe or Honduras. This April, 12 students and a faculty member explored England, the Czech Republic, Austria, Germany, Switzerland and Portugal. Students compared those health-care systems and pharmacy practices with those in the United States.

Earlier this year, five P4 students spent three weeks in Honduras through an arrangement with International Health Service, of Plymouth, Minnesota, an all-volunteer organization that provides medical and dental care to the impoverished people of Honduras. The group coordinates the logistics and participants pay a $725 registration fee.

The five students were in four groups experiencing varying degrees of remoteness.

There were 11 people in each group. In general, many volunteers were from Minnesota because of the International Health Service connection. Most teams had at least one physician, a nurse, a dentist, a pharmacist or pharmacy student and a general helper.

Many of the translators were from Honduras.

Kendra Ernste, of Faribault, Minnesota, was on the Patuca River team, which rotated between villages along the river.

“I have been interested in studying abroad since I began college. With a science major, this is a hard thing to do. I waited six long years, knowing I would be able to pursue my dream of studying abroad my last year of pharmacy school,” Ernste said. “When the opportunity arose, I had already visited Europe multiple times (the other study abroad option), so Honduras was the natural choice for an international rotation for me.”

SEEING FROM A DIFFERENT PERSPECTIVE

Kristen Schroeder, of Courtland, Minnesota, and Sarah Calhoon, of Winner, were assigned to the very remote La Mosquitia region of Honduras, where villagers speak Miskito.

Schroeder said, “I had been interested in participating in a medical mission for quite some time and being able to do this as a student was the perfect opportunity. I was interested in the Honduras trip in particular because I knew I would be able to experience a totally different way of living in a Honduran village.

“I think it’s important to continually try to see different perspectives and learn about other cultures, as this will not only help you in life in general, but also in a career.”

WARNED IN ADVANCE

Ernste said she was well prepared for her brief time at the Central American practice site.

“I was warned extensively before the trip about the trip conditions: no running water, little to no electricity, constant rain
and humidity, hauling heavy equipment around, etc. I think the extensive information from my team about what to expect really did help me feel prepared.

"Things felt easier than I anticipated, if anything, because I was so extensively warned about the 'horrific' conditions," Ernste said.

Schroeder and Calhoon were in the village of Lisagni, where they slept in tents, used a cockroach-infested outhouse and ate a lot of rice and beans. They served in the pharmacist role in a clinic that included a small pharmacy area that is usually used by the local nurse who diagnoses, prescribes and dispenses year-round.

Schroeder said, "It was quite warm there, but there was usually a breeze through our pharmacy window. The one thing we didn’t have was a refrigerator for medications, so we did not have any medicines requiring refrigeration or freezing."

**STUDENTS HAVE GREAT AUTONOMY**

The students would review each patient’s form for diagnoses, choosing appropriate medications and calculating dosages.

"Most of the disease states were fairly straightforward and we could still use reference databases on our phones to look up appropriate dosing. We only had a limited supply of medications, so we did the best we could," Schroeder said. "I liked that there was no insurance to deal with. It was definitely different from the United States, but you just have to learn to do your best in the setting you are in."

While Ernste's team did have a pharmacist, she said she "gave me a lot of freedom to make my own decisions and treat my own patients, something that we do not always get on rotation, as much as our preceptors try."

She said her team encountered "a lot of machete injuries ... The patients would come into the clinic, some with extensive lacerations, and we would patch them up. We sutured tendons and arteries as well as skin."

"The look on the patient’s face when they looked down at their hand or arm, which had previously been a bloody mess, and when they saw clean sutures and everything was where it was supposed to be, their face lit up into a brilliant smile. That was what I enjoyed most about my trip."
CURIOUS LOOKS AND UNIVERSAL SMILES

The villages in the La Mosquitia region and along the Patuca River were used to the annual visits by the health teams; however, the students were still a curiosity.

“They watched everything we did. Setting up our clinic, setting up our tents, eating, working, boxing up our things, doing our laundry ... they watched it all. They were not accustomed to Caucasian people being in the village and were fascinated by everyone and everything we did. That was the most unusual thing of the trip, just being watched all the time.

“Another culture shock that I had was how young people start families down there. I had a 12-year-old come into the pharmacy who was pregnant, and many of the women are still having babies in their 40s. They have about 10 kids in their lifetime, if not more,” Ernste said.

Maybe that's because the kids don't cry.

An interesting observation that Schroeder made was “the children at my village didn't cry or whine at all. I can probably count on one hand the number of times I heard crying throughout the week. Everyone was very stoic and respected our team members for the most part.”

Even though the team members were outsiders at the villages, they weren’t outcasts.

Schroeder said, “One day, Sarah and I went swimming in the river. We went along with a non-English speaking helper—neither of us speak Spanish very well. While there, a couple young children from the village, who speak Miskito, joined us. We skipped rocks and the children laughed and had a fun time.

“This just goes to show that a smile or a laugh is the same in every language, and everyone can find something in common.”

Dave Graves

SDBOR HONORS

Kappa Epsilon Chi chapter won the South Dakota Board of Regents’ Award for Academic Excellence. From left are: Paul Turman, South Dakota Board of Regents’ Vice President for Academic Affairs; Kevin Schieffer, South Dakota Board of Regents’ president; Megan Schliesman, a member of Kappa Epsilon Chi; and Barry Dunn, South Dakota State University president.

American Pharmacists Association–Academy of Student Pharmacists (APhA-ASP) won the Regents’ Award for Organizational Leadership. From left are: Turman, Schieffer, Alex Middendorf, the chapter's adviser and an assistant professor, and President Dunn.
Former dean Dennis Hedge received a lifetime achievement award from his profession.

Hedge, who served as dean from 2008 to 2016 and is the current provost and vice president for academic affairs, was honored with the Gary W. Karel Lecture Award at the annual gathering of the South Dakota Society of Health-System Pharmacists March 23 in Sioux Falls. It is the organization’s highest award presented to a member.

Hedge has been at South Dakota State since 1992, beginning as an assistant professor of pharmacy practice after completing his residency.

James Clem, a former colleague in the college, calls Hedge “someone with drive, passion and vision for the practice of pharmacy. He has been very effective in all of the roles he has been in and has advanced the practice of pharmacy through a variety of venues, including his roles at SDSU and Avera McKennan,” where Hedge had a joint appointment early in his career.

Hedge also served as president of the South Dakota Society of Health-System Pharmacists, an organization for pharmacists in a hospital or health system.

Deb Farver, professor emeritus in pharmacy practice at SDSU, called Hedge “a transformational leader (who) effectively communicated expectations and goals while motivating one to achieve them. I have grown to be a better pharmacist and educator by observing Dr. Hedge. ... I wish every pharmacist has a Dr. Hedge in their professional career to guide them.”

One who did was Dan Hansen, assistant dean for student services in the college and a student of Hedge’s in the early 2000s.

After having Hedge in the classroom, he also worked with him in job-experience training at Avera McKennan in infectious disease during Hansen’s final year of schooling. “It was apparent from the start of that rotation the high level of respect fellow pharmacists and providers had for Dr. Hedge and the significant role he played at Avera McKennan.

“I think you would have a hard time finding a person who better embodies the ideals of this award or has contributed more to not only health-system pharmacy, but the entire profession of pharmacy,” Hansen added.

The Karel Award was first presented in 2012 to the award’s namesake, a 1973 SDSU graduate who spent much of his career at Sanford.
Walking the trail to a Pharm.D. is a well-trod path. The required course load and sequence don’t leave much opportunity for straying.

But once the degree is in hand and the graduate becomes the practicing pharmacist, the trail splits in many directions. Ann (Maurice) Byre (bye-ree) testified to this as she delivered the message at the Spring Convocation in the Volstorff Ballroom April 18.

Her audience was primarily P1 and P2 students, with P3 students on Live Stream due to weather, as the vice president of pharmacy services at Allina Health in Minneapolis recalled when she was in their shoes about 20 years earlier. “I was completely focused on community pharmacy. I never really gave a thought to hospital pharmacy or to potential pharmacy leadership roles, and after graduation I went right into retail practice,” she said.

The 2001 SDSU Pharm.D. graduate had done an internship at Skopko in Sioux Falls and then the Bloomington, Minnesota, native returned to the Twin Cities as a graduate intern with Target. She soon stepped into a staff pharmacist position.

“I credit Target for helping me catch the ‘leadership bug’ and I let it be known to leaders that I was interested in taking on new responsibilities and roles. I was given the opportunity to manage my first store about a year after I got there and kept progressing through various roles—district manager, group manager and then regional manager, which covered 19 states from the Midwest all the way to Alaska and Hawaii.

“But my home life, having started a family and traveling two to three days per week, was not sustainable for me long term,” Byre said.

MULTIPLE OPPORTUNITIES AT ALLINA

In November 2009, she joined Allina Health, a multi-tiered, nonprofit health care provider based in Minneapolis. Byre progressed from director of outpatient pharmacy services to director of pharmacy services and finally to her current VP position in April 2016.

As a student, Byre said she envisioned overseeing maybe one store. By the time she left Target, she was indirectly overseeing more than 520 stores. When she became director of pharmacy services at Allina in January 2013, she had no experience in hospital pharmacy, and Allina has 13 hospitals in addition to more than 90 clinics and 15 retail pharmacies.
She said that she quickly realized that she did not need to be the expert on all topics, but could help advance pharmacy practice across the system by bringing the right leaders to the table for strategy and decision making and then telling the story effectively with executive leadership to promote what a pharmacy needs.

“Grasp opportunities when they are presented even if you don’t feel ready. Just always be your best self. Do your best in whatever role you find yourself in and you will be recognized for that,” Byre told students.

Much of her talk was dedicated to revealing some of the less common pharmacy positions staffed by Allina. She showed short video clips from the people holding those positions. The areas they work in:

- Mental health,
- Hospice,
- System formulary,
- Medication adherence,
- Prescription financial assistance,
- Transplants,
- Home infusion,
- Long-term care,
- Antibiotic stewardship,
- Cardiovascular, and
- Informatics.

WHAT EMPLOYERS LOOK FOR

In response to a question on what skills graduates should have, Byre said, “Develop the soft skills—conversational skills, personality, how you interact with others. Be open, engaging and confident. Early in your career, learn about financials and budgets. Develop leadership skills in personnel management. Even if you’re a ‘little L leader’ (meaning you don’t have the title of a leader), sometimes you are in the position to make decisions.

“We generally are confident that the clinical knowledge is there, so oftentimes it is the soft skills, the business skills, that we are looking for in rounding out an ideal candidate.”

In closing, Byre encouraged students to “think outside the box. Corporate mergers may change how we practice in the future. Bigger companies are just getting bigger.” She cited CVSHealth, which has diversified its operation from simply being a retailer to now also having a foothold in all areas of pharmacy and health insurance.

“I have no doubt that SDSU pharmacy students are prepared for the wide variety of pharmacist roles that the future holds, and I encourage you to be flexible to change as health care continues to evolve,” she said.

Dave Graves
With parents, grandfather, great-grandfather and brother in pharmacy, it was not a surprise for Megan (Lavin) Maddox '96/'98 Pharm.D. to enter the field. Despite being accepted into dental school after graduating from high school, she chose pharmacy as she learned it would be the best fit.

After working in the pharmaceutical industry and at a university, Maddox found her dream job as the lead medication safety officer at Sanford Health.

“My team is responsible for ensuring that our processes surrounding medications are as safe as possible so that we provide the best care to our patients,” she said. “People go into health care because they want to help people and no one wants to make an error. We try to make sure medication errors don’t happen.

“My job is different from a typical hospital pharmacist—in that a lot of the work I do is project management or operations. So, I have ended up getting to know so many different departments in the hospital, and it is one of the reasons I really enjoy my job. In addition, the job has changed dramatically since I started it 12 years ago and will continue to evolve,” Maddox continued. “It’s phenomenal. I didn’t know I got the best job ever until I was in it.”

As the keynote speaker during the White Coat Ceremony in the University Student Union's Vollstorff Ballroom, Maddox talked about her range of experiences and the many career options one can have after graduation.

“If you’re lucky and strategize your career, you could possibly pair your pharmacy knowledge with something you truly enjoy,” Maddox said. “With more and more robotic technology coming in, fewer pharmacists will be doing the counting and distributing. As a result, pharmacists will continue to shift from technical work to areas where they can use their expertise and knowledge to impact patients.”

In addition, Maddox broke down being a professional in pharmacy into four different categories: appearance, communication, behavior and knowledge. Her communication skills allowed her to get her current job. She feels communication skills and knowledge will be the leading areas moving forward.

“It’s critical to understand that if you want to be an influential pharmacist, you have to be a lifelong learner,” she said before noting the pace of medical knowledge becoming available. “It was estimated that the time needed to double the amount of medical knowledge in 1950 was 50 years. In 1980, it was estimated that it doubled in seven years;
in 2010, three and one-half years. By 2020, it is projected that medical knowledge will double in as short as 73 days.

“This is overwhelming for me to think about,” Maddox continued. “And you won’t even be out of school then. The good news is that health care is a team sport and we have a lot of players with expertise. Medications are ours. If you want to become the medications expert on your team, you need to commit to being a lifelong learner.”

Maddox said that due to the rapid growth of medical knowledge, more pharmacy specializations will likely become available. “Graduates now can go into anticoagulation, transplant, oncology, cardiology or genetics to name a few,” she said. “There’s so much knowledge out there that specialization is one way they can keep up with what they need to know in order to be the best at what they do. Regardless, pharmacy is a field that will continue to evolve and have a lot of demand.”

She closed telling the 79 students who received their white coats that “some of the most important work you will do as a pharmacist will be influencing other health-care professionals and your patients. This is best accomplished by being a professional. Make sure you dress the part. Be a strong communicator and be professional in your interactions with others and commit yourself to being a lifelong learner. Put all of these together and you will be a professional pharmacist who influences people with the result of having a positive impact on patient care.”

Matt Schmidt
TOP STUDENT LARSON FINDS PASSION FOR TEACHING

Growing up in a family whose parents were both teachers, the last thing Alyssa Larson wanted to be was a teacher.

Now, after four years of high school and six years of college, the 2018 graduate from the College of Pharmacy and Allied Health Professions thinks she has found her passion in teaching. “I thought I would never want to be a teacher, but I found I enjoy disseminating knowledge to other people,” said Larson, who was named the 2018 Distinguished Graduate.

She had several opportunities at SDSU to teach. After taking an anatomy class in the fall of her sophomore year (2013), she was selected to be an anatomy intern for the following spring semester. Only 25 of the 100 students who take the class are given the opportunity to co-instruct an anatomy laboratory section. Larson, of Brookings, considers it one of the highlights of her time at SDSU.

“It is when I developed a passion for teaching, which I didn’t think I would want to do,” said Larson, who is a 2012 graduate of Brookings High School.

The following year, when she was in her first year of pharmacy school, she participated in the pharmacy peer mentoring program for students in Pharmacy 109. Larson mentored four prepharmacy students. “We would come in and provide support to prepharmacy students, help grade their papers and assess them on presentations,” she said.

None of her students continued with pharmacy. “A huge part of that class is figuring out if pharmacy is what you really want to do,” she said.

KUDOS TO HIGH SCHOOL TEACHERS

Larson said pharmacy is right for her and points to her high school science teachers and job shadowing as a prepharmacy student.

“I developed an interest in chemistry and biological sciences in high school. I had amazing teachers that instilled that passion in me. Kelly Riedell taught biology and zoology. Chad Chadwell taught chemistry, anatomy and physiology. I felt like I was ready to come into college and succeed from the get-go. But what really sold me on pharmacy was shadowing pharmacists,” Larson said.

She spent a couple hours at a time at the Hy-Vee pharmacy, a compounding pharmacy in Sioux Falls, and Sanford Hospital and hematology/oncology pharmacy.

Larson had another teaching experience this school year when she came back to campus for a five-week academics and teaching rotation under Associate Dean Dan Hansen. She helped teach labs for P1 and P2 students, created a new lab activity and wrote exam questions. “It was one of the best rotations I’ve had,” Larson said.

She was also surprised by the amount of time it took to prepare an activity. “You thought it would just take an hour and it took all afternoon,” she said.

Of course, her parents—Pam, a teacher at Medary Elementary, and Gary, who retired in 2015 after 36 years with SDSU Department of Natural Resource Management—could have told her that.

HEAVILY INVOLVED IN ORGANIZATIONS

Among the criteria for selection as distinguished graduate is involvement in extramural professional activities. Larson was involved in Kappa Psi Pharmaceutical Fraternity, Rho Chi Honor Society and American Pharmacists Association Academy of Student Pharmacists.

Through APhA-ASP, she was a member of the tobacco cessation committee. “We would go to elementary schools and do education on tobacco. The association provides a lot of great professional opportunities to build skills early in your career,” she said.

Kappa Psi provided an opportunity to build friendships with classmates. Rho Chi, which only accepts the top 20 percent of the class into its membership, was an easy choice for Larson. She holds a 4.0 GPA. “I’ve always been a little bit of a perfectionist,” she admitted.

Larson, also a top student in high school, said her interest in being involved in activities grew while she was in college.

Besides the pharmacy organizations, Larson spent three years with the campus chapter of Habitat for Humanity. “My sophomore year we were all roommates and close friends. We saw an ad for Habitat for Humanity, and it seemed like a fun activity not related to our major. The following year, I ran for treasurer and served two consecutive years,” she said.

In addition to working at fundraising events, Larson and her friends painted, assembled cabinets and worked at the Habitat ReStore.

GREATEST LESSON IN PHARMACY SCHOOL

Like pharmacology, cabinet assembly was a new lesson for her. But she said the greatest lesson she learned while in pharmacy school was to be resilient.

“Even when going through the best years of life, you’re going to face some failure. I definitely faced that and I think all of my classmates would say the same. I didn’t get the first pharmacy job I applied for,” Larson explained. “Until that point, I hadn’t faced failure before. It caused me to reevaluate what I was doing. Rather than let it get me down, it provided me fuel to do better.”

Later in her P1 year, she got another pharmacy intern position and held it throughout her pharmacy education.

That education continues in July, when she begins a one-year, postgraduate residency at Regional Health in Rapid City “to refine the clinical knowledge and skills that I’ve gained.” Then? “I’m considering a second-year residency in a specialty, probably critical care. I will know better after my first year.”

Then after that, at some point, there’s teaching.
Meet OUR 2018 Graduates!

Avery Aldridge
PGY1 Pharmacy Resident
VA Black Hills Health Care System

Janelle Anderson
Pharmacist
Rite Aid

Alexandra Anzai
Pharmacist
Hy-Vee

Kara (Stramseth) Benson
Pharmacist
Lewis Drug

Alex Besey
Pharmacist
Walgreens

Kristen Binger
Pharmacist
Rite Aid

Benjamin Bolinski
PGY1 Pharmacy Resident
Kadlec Regional Medical Center

Jamie Brooks
Pharmacist
Lewis Drug

Sarah Calhoon
Pharmacist
Dave’s Pharmacy

Nicole Carr
Pharmacist
CVS Pharmacy

Fang Chen
Pharmacist
Shopko

Beau Craig
Pharmacist
Carrs

Megan Dorsey
PGY1 Pharmacy Resident
Providence Medical Center

Aimee (Carlson) Dulot
Pharmacist
Walmart

Heath Eischens
Pharmacist
Shopko

Shelby (Carlson) Eischens
Pharmacist
Hughes Healthmart

Kendra Ernste
PGY1 Pharmacy Resident
CentraCare Health

Whitney Eystad
Pharmacist
Cub Foods

Jonathan Feist
Pharmacist
Lewis Drug

Matthew Gibbons

Casey Goodhart
Pharmacist
Lewis Drug

Kiel Grant
PGY1 Pharmacy Resident
Avera McKennan Hospital and University Health Center

Erin Gullickson
Pharmacist
Lewis Drug

Teagan Gustafson
Pharmacist
Northside Pharmacy

Kelsie (Wahl) Heiser
Pharmacist
Medical Center Pharmacies

Morgan Hemmingson
PGY1 Pharmacy Resident
Mercy Medical Center

Avery (Carlson) Dulot
Pharmacist
Walmart

Kendra Ernste
PGY1 Pharmacy Resident
CentraCare Health

Whitney Eystad
Pharmacist
Cub Foods

Teagan Gustafson
Pharmacist
Northside Pharmacy
GRADUATE AWARDS

Graduate awards presented at hooding ceremony • May 4, 2018

APHA-ASP SENIOR RECOGNITION AWARD:
Nicole Stenzel, Saint Peter, Minnesota

AVERA CANCER INSTITUTE AWARD FOR OUTSTANDING ACHIEVEMENT IN ONCOLOGY PHARMACY:
Jack Kerner, Winner

2018 AWARD OF EXCELLENCE IN CLINICAL COMMUNICATION
SPONSORED BY WOLTERS KLUWER
Maggie Orn, Gwinner, North Dakota

LILLY ACHIEVEMENT AWARD:
Nicole Schaberg, Lake Elmo, Minnesota

MERCK AWARD:
Trace Steckler, Rapid City, and
Nate Smith, Belmond, Iowa

MYLAN EXCELLENCE IN PHARMACY AWARD:
Jade Kutzke, Lake Lillian, Minnesota

2018 NATURAL MEDICINES RECOGNITION AWARD:
Kara Benson, Sioux Falls

DOCTOR OF PHARMACY PATIENT CARE AWARD:
Lauren Wilde, Grafton, Iowa

OUTSTANDING STUDENT AWARD:
Lauren Kuschel, Brandon

DOCTOR OF PHARMACY DISTINGUISHED GRADUATE AWARD:
Alyssa Larson, Brookings

Congrats Grads!
Serving as director of pharmacy at Madison Regional Health Center means wearing many hats. If you are a student serving a rotation under Ian Alverson, it means wearing those same hats.

“He takes the initiative to make sure we’re getting the most out of our experience,” said Jon Feist, a P4 student who graduated in May and had his final rotation with Alverson.

“In a small hospital, there is a lot of variety in the work. Ian does a good job of showing that to us and getting us involved in the hospital,” said Feist, noting “sometimes in rotations you’re so specialized. Here, you see everything, including committee work. When I’m here on rotation, I attend those committees he’s working with.”

For Alverson’s willingness to get the student quickly involved on the health-care team, he was awarded the college’s Preceptor of the Year at its May 4 hooding ceremony.

Through sitting in on committee meetings with Alverson, Feist has a better understanding of what medications will be kept on-site and what substitutions the hospital will make, how antimicrobial stewardship is practiced by each position on the health-care team, and how the hospital would function in the event of a computer shutdown.

“It’s nice to see how a small rural hospital works. You get the behind-the-scenes exposure that you wouldn’t see at other hospitals. Larger hospitals have a separate staff that handles those management functions. Ian does all the management stuff, too, as well as being a clinical pharmacist. You get a well-rounded experience here,” said Feist, who is now a Lewis Drug employee.

NUDGES STUDENTS OUT OF NEST

That is more than an unavoidable consequence, Alverson said. “I want them to have a better understanding of a hospital in a rural setting. That first week it’s me feeling out their comfort level; making sure they’re confident in their abilities and knowledge base. Then I’m offering them things to get involved—interact with providers, interact with patients, make IV solutions.

“Pretty quickly I’m observing them. After two or three weeks, they’re out on their own. As soon as I have comfort with them in an area, I let them field those assignments themselves,” Alverson said.

INFLUENCED BY REILLY, HELLWIG

That training reflects training Alverson himself received, particularly from Vince Reilly and Tadd Hellwig.

Reilly, owner of Medicap Pharmacy in Hartford, “showed he had confidence in our abilities. He wasn’t holding my hand very long before he turned me loose with responsibilities,” Alverson said of his rotation at the independent pharmacy.

Hellwig, associate professor of pharmacy practice at SDSU and Sanford clinical pharmacist in Sioux Falls, “pushed me,” Alverson said of his rotation in 2012. “Tadd tried to draw the answers out of us and make sure we knew why we were giving the answers we gave.”

Therefore, it’s not surprising that Hellwig’s career already has been marked by Teacher of the Year, Educator of the Year, Preceptor of the Year and outstanding scholar awards or that Reilly, a 1987 State grad, also was Preceptor of the Year.

WAS WELL ACQUAINTED AT MADISON

Alverson, who precepts six to nine students each year, began precepting as soon as he took the job as director of pharmacy. “I did a rotation with the pharmacy before I was in the program,” the 2005 Madison High School graduate said. “When I did an internship (November 2010), they told me if I liked it, I could take over” because the current director was ready to retire, Alverson said.

Alverson said having students work under him provides help with “day-to-day tasks and allows me to give back to the school and help students, while simply doing my job.”

He also has a bit of precepting to do when he gets home, which is in Watertown.

Alverson and his wife, Brianna (Siefkes), a 2012 Pharm.D. graduate who works with Indian Health Service in Sisseton, are parents to Avery, 8; Emmett, 6; Berkline, 2; and Maverick, 1.
John Kappes ’05/Pharm.D. ’07 got a surprise in class in April. It wasn’t a typical surprise. It came when it was announced he was chosen the College of Pharmacy and Allied Health Professions’ Teacher of the Year.

“It very much caught me by surprise. I certainly did not expect it. I am honored and humbled by the award,” Kappes said.

Nomination letters from students even credited Kappes for his ability to show up to class regularly—not an easy feat considering he teaches in Sioux Falls and lives in Rapid City.

However, the nominations also cited what he does when he gets to class.

“Even with the distance between Sioux Falls and Rapid City, Dr. Kappes is almost always present for class. This drive to be present during teaching is fundamentally important to student learning and the effort does not go unnoticed. Dr. Kappes teaches in a way that makes some of the most difficult topics in therapeutics understandable and practical. He presents information in such a way that is both captivating and memorable for students. The P3 class believes that Dr. Kappes should win Teacher of the Year because of his diligence and commitment to instruction of pharmacy education,” stated one submission.

Another nomination submission stated, “Dr. Kappes constantly challenges students to become the best pharmacists they can be. In the classroom, it is clear he spends a great deal of time making his lectures captivating and easy to understand. On rotation, he pushes his students to be the medication experts. He challenges them to read primary literature and to never stop learning. He is incredibly well-respected at the hospital he works at and plays a vital role on the multidisciplinary team he makes rounds with in the intensive care unit. He shows his students each day how to be an effective member of a large health-care team.”

In addition to being an associate professor at State, he works as a clinical pharmacist with Regional Health. After graduating, Kappes completed pharmacy residencies at Aurora Health Care in Milwaukee and Avera McKennan before moving to Rapid City.

Kappes tries to make the most of his windshield time going across the state.
“I make it work by being intentional, investing my time in the parts of the job which are most important. Sometimes I get it right, but many times I find I have room for growth,” he said. “The car time, while frequently not exciting, can provide ample opportunity for thought-provoking ideas.”

The hours driven are worthwhile when Kappes sees a student grasp the material.

“The best part of the job is to see the impact and change that can be made in someone else’s life. Improving the quality of life in a patient and sparking a flame of inspiration in a student provide an immense amount of job satisfaction,” he said.

The thought of entering the pharmacy field was sparked early possibly because his father, Jerome ’76/Pharm.D. ’03, is a pharmacist.

“That might have sparked the interest in pharmacy. As I was going through pharmacy school, I found I really liked explaining things to my colleagues,” Kappes said, when asked about how teaching entered his career. “When I moved into residencies, I had many opportunities to teach. I was as excited about teaching it as I was learning it. It ended up being a nice combination where I could do both professions in one job.

“I decided to become a pharmacist and a teacher for basically the same reasons. Both professions have the perfect balance of known and unknown,” he continued. “With extensive research in both fields, I can find an answer to my questions. But there is still enough unknown it allows one to explore new questions with critical thinking and creativity.”

Matt Schmidt
Administering medicine with a “one-size-fits-all” philosophy will be as outdated as sulfa drugs within a decade, according to one of the nation’s top drug-delivery researchers.

Philip Low, a distinguished professor and the presidential scholar for drug discovery at Purdue University, delivered the sixth annual Francis Miller Lecture in the South Dakota Art Museum auditorium April 2. Earlier in the day, he also delivered a scientific lecture and met with various faculty members from the College of Pharmacy and Allied Health Professions.

Low has devoted more than 40 years to exploring novel methods for drug discovery. Eight drugs from his research are undergoing human clinical trials.

“Historically, people have been treated systemically for even highly localized diseases, enabling the drug to affect healthy and ill cells alike. Regardless of the site of illness, the medication that was taken went throughout the whole body,” said Low, noting chemotherapy as one such example. Another would be penicillin, which replaced sulfa in the mid-1940s.

Precision medication became practical as the groundbreaking sequencing of the human genome in 2003 turned into a routine procedure within 10 years.

AN ALTERNATIVE TO CHEMO

“Our desire is to place good drugs solely in diseased cells. Chemo drugs are designed to kill dividing cells. And white blood cells and stomach lining cells are constantly dividing. Bone marrow is also replacing 3 billion cells per day, so the immune system is almost always inhibited by chemotherapy because the immune system is comprised primarily of bone marrow cells.

“We take a drug already approved by the FDA and link it to a homing molecule that will bind to a protein that is overexpressed on the disease cell,” Low explained.

For example, cancer cells have a ravenous appetite for folate, the vitamin required in cell division. In Low’s lab, researchers are able to create a targeting molecule that is loaded with a therapeutic or imaging agent, Low explained. “All of the safety is determined by whether the molecule goes to the right cell or the wrong cell.”

Thus, targeted medications can have lower cell toxicity rates because they are not also coming into contact with healthy cells, Low said.

“If you put it all in the diseased cell, the drug will still be very safe to the patient,” he said.

ALSO AIDING SURGEONS

Targeted delivery also has proven invaluable in surgery, he said. Using a tumor-targeted fluorescent agent that binds to a folate receptor on cancer cells, surgeons are able to remove five times as many cancerous tumors. By using a fluorescent lamp, the surgeon can clearly distinguish between cancerous and healthy growths.

“Some lesions are only two or three cells large, but will grow into tumors if not removed or killed by chemotherapy afterward,” Low said.

This enhanced surgery procedure has been moved into phase three clinical trials, which will take a year. “Usually, they take years, but the FDA has awarded our tumor imaging agent fast track status after seeing our clinical results. Our anticipation is it will be available to the public within a year and a half,” Low said.

Surgery by colors is the next experimental frontier for his lab. “Fluorescent-guided surgery is going to be what everybody is doing in 10 years. This will help surgeons avoid cutting what they shouldn’t,” Low said. He said different fluorescent agents will target different tissues. Cancer tissues, ducts, blood vessels and nerves would each be “painted” with a different color.

HELP FOR BROKEN BONES

Another experimental area for Low’s lab is targeted drug delivery to bone fractures, which was started by his son as a postdoctoral project.
Currently, no drug exists to accelerate the healing of bone fractures. It was a shock to me when I realized that. There are 6 million bone fractures per year in the U.S. In the elderly, 50 percent of those with hip fractures die before fully healing. In experiments, targeted drug delivery is cutting healing time in half.

“We’re using a drug that recently went off patent and have modified it slightly. It should also be helpful with osteoarthritis patients,” Low predicted.

The trend affects all academic colleges, which has prompted the SDSU Foundation to develop a multichannel approach to reach out to alumni. A centerpiece of that effort is a 24-hour day of giving called One Day for STATE that was initiated in 2017.

Glidden said the SDSU Foundation understands the value of interacting with alumni by phone.

“We did hold the pharmacy thank-a-thon in April with current pharmacy and medical laboratory science students calling donors to thank them for their support. This provided alumni the opportunity to connect with a current student from the college if they had any specific questions to ask that our PhoneJacks weren’t able to answer while on the previous phone call with them.

“Overall, alumni were supportive of the change. Our PhoneJacks are current students on campus as well and were able to provide alumni with happenings on campus and in the departments.”

For about 100 alums who didn’t have a phone or email registered with the Foundation, a direct mailing was sent to them. Responses were still arriving at the publication deadline.

Two factors that make conducting a phonathon more challenging these days are caller ID and a fear of being scammed.

That was part of the reason that One Day for State was launched Aug. 30, 2017. About 1,200 donors raised nearly $300,000 within 24 hours. Of these totals, 125 donors raised $22,673 for the college. Another campaign will be held early in the fall semester.

“We want to do a better job connecting with our alumni and donors in channels and methods they prefer to be reached, whether that is phone, email, social media or mail,” Glidden said.

Dave Graves

The Miller Lecture is made possible by an endowment created by Francis J. “Johnny” Miller, a longtime pharmacist and drugstore owner in Redfield and Huron as well as in his hometown of Gettysburg. Assets from his trust became available to the SDSU Foundation after the death of his daughter, Frances Miller Anderson, in 2009.

Miller, who died in 1987, was appreciative of short courses conducted by SDSU because his only training was a 90-day course in Denver during the Great Depression.

Dave Graves
Pharmacogenomics, using patients’ genetic code to tailor the treatment regimen, has become the cutting edge of medical advancement and new faculty member Jordan Baye works in the heart of this startup field.

He is a clinical pharmacist with Sanford Imagenetics in Sioux Falls, a division of Sanford Health that was created in 2014 with a $125 million gift from T. Denny Sanford. The genetic testing and counseling service moved into a three-story building on the south side of the Sanford USD Medical Center campus in summer 2017.

Baye, who had worked as an inpatient pharmacist at Sanford since 2011, moved into his new 50-50 position with SDSU and Sanford March 5. He joins a group of pharmacists tasked with building the pharmacogenomics service for the Sanford Health enterprise.

As a clinical pharmacist, he will help develop the information set that will be obtained from patients as well as helping determine how the information is provided to other health-care professionals and integrated into the patient’s electronic health record. Baye also has a practice helping Sanford internal medicine physicians with medication-related problems.

At SDSU, he will help with pharmacogenomics coursework and precept P4 students on their pharmacogenomics rotation at Sanford.

It is one of the few clinical pharmacogenomics positions in the nation, according to Jim Clem, head of the Department of Pharmacy Practice in the College of Pharmacy and Allied Health Professions.

CONTINUING ED ALSO TO BE OFFERED

The college approached Sanford Imagenetics not long after the venture was announced, seeing it as “a great opportunity to get a faculty member into this environment,” Baye said.

Clem, who helped create the position, said, “The area of pharmacogenomics is becoming increasingly important in medication therapy (pharmacotherapy). It is known that certain medications work differently in individuals based on an individual’s genomic makeup. Some medications work better, some don’t work well at all.

“This position was created so that our students are competent within this area of medication therapy and as graduates will be able to better serve patients.”

Pharmacogenomics is an elective rotation. Ten years ago it didn’t exist. Most practicing pharmacists haven’t been trained in the field. Consequently, Baye’s position will also be charged with providing continuing education to practicing pharmacists in the state and region. “This is a new frontier for medication therapy and it was time that we had this expertise within our college,” Clem said.

The format for how the information will be presented has not been determined, Baye said.

FIRST ROTATIONS UNDERWAY

His first two students began their five-week rotation in June. Baye adds, “There has been pretty fair interest in this rotation. My hope is they gain a basic exposure to pharmacogenomics. The
field is so specialized; I don’t want them to become experts, just gain a basic understanding of pharmacogenomics and how that will affect their future practice.”

With pharmacogenomics being such a unique rotation, there isn’t much of a standard format by which to instruct students, Baye admits.

However, he does bring many years of training in the field. After graduating from Sioux Falls O’Gorman, Baye attended the University of St. Thomas in St. Paul, Minnesota, where he earned a bachelor’s degree in biology and philosophy in 2001.

“Coming right out of college, I got a research position with a biotech company (PhysioGenix) in Milwaukee, which was really pharmacogenetics. The focus of the research was using rat models to predict drug response. It was preclinical testing using comparative genomics,” Baye said.

While working there, he enrolled at the Medical College of Wisconsin in Milwaukee to obtain a master’s in bioethics. Baye’s 2006 thesis was “The Ethics of Stem Cell Research: The Least Objectionable Argument.”

Next stop was pharmacy school at the University of Iowa. While there he spent 2008-10 as a pharmacist intern at the University of Iowa Hospitals and Clinics in Iowa City. He earned his doctor of pharmacy in 2011 and followed that with a PGY-1 pharmacy practice residency at the Iowa City VA Health Care System.

The position at Sanford Imagenetics so well matched his background that Baye knew he must apply.

SHARES EDUCATIONAL BACKGROUND WITH WIFE

Baye said he hasn’t targeted a specific research interest in his current position. “Oncology and cardiology are my background interests. There is potential for collaboration there. Both departments (at Sanford) are already well established in genetic testing,” he said.

Personally, Baye and his wife, Lisa, have two children, Jonathan, 14, and Isaac, 6. They live in Sioux Falls, where Lisa is an assistant professor in biology at Augustana University. She also is a graduate of St. Thomas and Medical College of Wisconsin.

His hobbies include homebrewing, being outdoors, golfing, watching baseball and football, and listening to classical and jazz music.

Dave Graves

SCHAEFER NAMED GRANT COORDINATOR

Brookings native and SDSU grad Kyle Schaefer began work May 14 as the college’s grant proposal specialist.

In keeping with tradition, the position is split between the College of Pharmacy and Allied Health Professions and the College of Arts, Humanities and Social Sciences (formerly Arts & Sciences).

“By working very closely with faculty and staff in both colleges, this position contributes to faculty development in grantsmanship by assisting them in the preparation and submission of grants as well as identifying funding sources,” said Xiangming Guan, professor and associate dean for research.

Schaefer, 2004 graduate of Brookings High School, already has five years of experience working with grants. He served as the program and development officer at South Dakota Humanities Council in Brookings, where responsibilities included overseeing the grants that the council awarded and applying for grants on behalf of the council.

“I’ve seen a lot of grants. I’ve written grants locally, statewide and nationally. My role as program officer taught me how to work with people in putting together successful grants,” Schaefer said.

In his current position, he will facilitate staff who are applying for grants by helping them find funding sources, guiding them through the process and handling a lot of the logistics. “I take some of the burden off the faculty,” said Schaefer, who adds that he enjoys the process of putting the pieces together for a successful grant application.

He also holds a degree in English (2013). Schaefer said he tried college right out of high school, ended up in construction and then returned to State.

“To be a part of SDSU and its intellectual infrastructure is something we’ve always been interested in and kept us here,” Schaefer said. The “us” is his wife, Rachel (Schumacher), a Volga native and Elkton elementary school teacher. They live in Brookings and have two sons, Elliot, 5, and Gavin, who was born April 6.

Outside interests include spending time with family and reading in the fields of science, math, economics and literature. He also is a member of two book clubs.

Schaefer replaces Mary Carlson, who left in late 2017.
Distinguished Professor Emeritus Chandradhar Dwivedi was honored with the Rashtriya Gaurav (National Glory) Award at a formal ceremony in New Delhi March 26.

The award was presented by the India International Friendship Society, which is a private organization that aims to strengthen ties between India and its expatriate community. The award honors Dwivedi’s professional accomplishments, which are renowned within the College of Pharmacy and Allied Health Professions and his profession.

He taught at SDSU from 1987 to 2013 and is credited with building a formidable pharmaceutical sciences department at what was strictly a teaching college when he arrived. Dwivedi served as head of the department from 2003 to 2013 while continuing to teach. He maintained an active research agenda and was a mentor for undergraduate and graduate students, postdoctoral fellows and junior faculty members.

After earning his bachelor’s degree at age 16, he earned a master’s at age 18 and a doctorate in 1972 at age 34. In 1973, he and his wife, Prabha, moved to the United States, where he entered postdoctoral training at Vanderbilt University. The Dwivedis spent 12 years in Nashville and two years at The Ohio State University before moving to Brookings.

Dwivedi made an immediate impact at South Dakota State, which presented him the F.O. Butler Award for Excellence in Research in 1990.

Other honors include being named a distinguished professor by the South Dakota Board of Regents in 2000 and receiving the 2012 Harold and Barbara Bailey Excellence in Departmental Leadership Award. He remains the only College of Pharmacy and Allied Health Professions faculty member to have the title of distinguished professor.

In 1990, Dwivedi created the annual pharmacy research presentation for undergraduate students working as research assistants in the college. At that time, pharmacy was a five-year program and there was no graduate program in the college. He was the college’s lone faculty member conducting laboratory research.

After starting with fewer than 10 presenters, there are now about 20 presenters in three levels—undergraduate, junior-level graduate students and senior-level graduate students.

Called CD by many of his colleagues, he was known for his professionalism, sincerity and devotion to his students, whom he called his academic family. Dwivedi also is known for welcoming incoming faculty from the Indian subcontinent and serving the area’s Hindu community. He is actively involved in the construction of a Hindu Temple and Cultural Center in Sioux Falls. He also has been active in Brookings Interfaith Council, South Dakota World Affairs Council and the Brookings Human Rights Commission.

As part of the March trip back to receive the award, he and his wife spent about three weeks in India visiting extended family.
CLEM HONORED FOR EXCELLENCE IN LEADERSHIP

Professor James Clem, head of the Department of Pharmacy Practice since 2008, received the Harold and Barbara Bailey Award for Excellence in Academic Department Leadership at the Feb. 20 Celebration of Faculty Excellence banquet at SDSU.

In his position, he maintains relationships with all members of the pharmacy practice faculty, who are spread around the state, and serves as the point of contact for students fulfilling the P3 requirement in Sioux Falls. He most recently worked with Sanford Imagenetics to create a 50-50 clinical faculty position that will be one of the few clinical pharmacogenetics positions in the nation.

Clem also was involved in recruiting the department’s first endowed position, the Hoch Family Endowed Professorship in Community Pharmacy Practice.

TUMMALA NAMED COLLEGE’S OUTSTANDING SCHOLAR

Hemachand Tummala, an associate professor in the Department of Pharmaceutical Sciences, was named the college's Outstanding Scholar at SDSU’s Celebration of Faculty Excellence Feb. 20.

His research focuses on the design of new drug delivery systems and vaccine delivery systems for infectious diseases and cancer. He recently received a grant from the U.S. Department of Agriculture to explore the feasibility of using this delivery system to develop an effective vaccine for swine influenza.

The vaccine delivery system developed by Tummala’s group has been licensed to Medgene labs.

MORT CHOSEN A WOMAN OF DISTINCTION

Professor Jane Mort was one of five SDSU women selected as the university’s April Brooks Women of Distinction during an awards presentation held in conjunction with the annual tea for women’s history month in March.

The SDSU Women’s and Gender Studies Committee honored her in the area of administration.

A member of the SDSU faculty since 1986, she began serving as interim dean in May 2016 and was named permanent dean April 11. (See separate story.)

Tummala’s group also recently developed a patented polymeric oral formulation for curcumin, a natural compound with multiple health benefits. It received the best poster award for the North American Region from Evonik Industries, a Germany-based global polymer company. He also received a patent for this formulation in 2017.

Tummala recently received a grant from the SDSU-Sanford Profile Research grant program to develop a nutritional supplement using this formulation.

With 50 publications and presentations to his credit, Tummala also has several pending or issued patent applications. Among the recognitions he has received are the Innovation in Biotechnology Award from the American Association of Pharmaceutical Scientists, and the College of Pharmacy Award for Excellence in Research & Scholarly Activity.
Medical laboratory science instructors Stacie Lansink and April Nelsen and recently retired program director Pat Tille received the national Omicron Sigma Award from the national president of the American Society of Clinical Laboratory Science at the state convention in Aberdeen April 12-13.

The award recognizes members who volunteer their personal resources, time and energy to the American Society of Clinical Laboratory Science. Omicron Sigma is the honor roll for professional service to the society with national nominations coming from the national president.

Lansink, an ASCLS member since 1999, served as president of the South Dakota chapter in 2015-16 as well as being named South Dakota member of the year in 2015. She has been on the SDSU faculty since 2011 and is currently the national chair for the Scientific Assembly of Immunohematology/Immunology.

Nelsen is Region V secretary/treasurer and is the national vice chair for the Scientific Assembly of Immunohematology/Immunology. A faculty member since 2015, Nelsen earned her bachelor's in microbiology and clinical laboratory science in 2009 and her master's in microbiology in May 2015, both from SDSU.

Tille, a member for 26 years, served as state president in 2005-07 and 2013-15, and served as regional director from 2015 to August 2018. Tille also has been a keynote speaker at ASCLS regional meetings and has been active in committees on the national level.

Tille was inducted as a fellow of the Association of Clinical Scientists at its 2016 meeting in Little Rock, Arkansas. Fellows must be doctoral scientists who are experts in the education of and/or application of laboratory methods for the diagnosis and treatment of human diseases as well as have ongoing specialized professional activities.

Tille directed the SDSU Medical Laboratory Science program from 2009 to April 2018.

Also at the convention, senior MLS major Emily Nagel was selected as the Region V Student Forum representative by Tille, who also presented her a regional Omicron Sigma award.

Nagel was selected last year as the Region V Student Forum representative by the ASCLS Region V director. She has worked to get students more involved in ASCLS at the state and regional levels.

Nagel also had the opportunity to attend the annual legislative symposium in March and met with representatives and senators on behalf of the laboratory profession to voice concerns to Congress.
You can take Cindy (Loecker) Huether ’86 out of the lab but you can’t take being part of the lab out of her.

Huether received her degree in medical technology when the program was designed to spend three years on campus and one year as an intern at a hospital. She spent her internship at Sioux Valley Hospital, which is now Sanford Health, and then worked at Sioux Valley until 1989 when she and her husband, Mike, moved to Buffalo, New York.

“It was unfortunate to move at that time, but it’s part of what molded me as a person. I had started on nights at Sioux Valley, moved to evenings and you felt like you made it when you moved to the day shift. I had just done that, but we moved to Buffalo shortly after,” Huether said.

While there, Huether worked at Millard Fillmore Suburban Hospital until they moved to San Antonio, where she worked for an independent laboratory, conducting research and tests for clinical trials. She then worked in quality assurance for LabCorp. While her medical career came to an end when the Huethers returned to South Dakota, she has stayed in touch with what’s going on with the MLS program as well as former co-workers.

“Medical laboratory scientists are the backbone of the medical profession because we do all of the testing that help the doctors and the nurses—the faces one sees when visiting a hospital or office—help diagnose what is wrong with you,” she said. “Even though you don’t get a lot of recognition, it’s a very rewarding career. You know when you’re working in the field that you’re the one who helps make those diagnoses. Without our profession, doctors wouldn’t be able to find out what’s going on with you. We’re now seeing the program expand into the research areas at Avera and Sanford, too. Going into research is important for our future, as we cannot only help with a diagnosis but also find cures for some of the diseases.”

Huether got interested in medical technology when taking high school biology.

“We were doing blood typing, and I thought it was pretty cool looking at the red blood cells and I wanted to learn more about that,” she said.

She was glad to learn that MLS moved to the College of Pharmacy and Allied Health Professions several years ago.

“Coming to the College of Pharmacy and Allied Health Professions, the degree has truly found a home. It’s become an established degree,” Huether said. “We actually see labs that have medical laboratory science on them; before, we used a science or chemistry lab or whatever space was available. Now, we have a residence. I’m just proud, so happy and excited to see how the college has embraced our profession and the other allied health professions. I want more people to know what a great degree this is and how rewarding it has been for me and my life.”

Huether and her husband sponsor an instructional laboratory on the third floor of the Avera Health and Science Center.

“Everyone who is a graduate has their memories of the university. For me, one of them was being in the lab and the friendships made at that time,” she said.

“When Mike and I chose to donate to the university, we chose the academic side of the university. To us, it’s more rewarding. It might not be as visual as other donations, but it’s been good for us.

“When I was a student, I had no idea I’d ever become a part of any of the advisory boards and the roles that come along with those. I’m very appreciative and feel honored that they value my thoughts,” Huether continued. “If you’d have asked me when I was in college if I ever dreamed of coming back and naming a lab, no. Like everyone else, my idea was to graduate and get as far away as I can. However, as you get older, you tend to come back to your roots and places that had meaning to you. While so much has changed, you still have those memories. For example, the Rotunda will always be the Rotunda. There are certain buildings that will always be home to SDSU and that’s what people gravitate toward.”

Matt Schmidt
INTERPROFESSIONAL EDUCATION TAUGHT THROUGHOUT PHARM.D. CURRICULUM

The Institute of Medicine has emphasized the importance of collaboration among health professionals in order to improve the quality of patient care.¹ To foster interprofessional collaborative practice, interprofessional education has become a focus area for health professions education.

The World Health Organization describes interprofessional education as occurring when health professions students “learn about, from and with each other.”² Interprofessional education has been incorporated throughout the Pharm.D. program in didactic instruction, simulations and experiential education.

The design of interprofessional education instruction and activities within the Pharm.D. program utilizes a learning progression model and builds in complexity throughout the curriculum. The Core Competencies for Interprofessional Collaborative Practice are the foundation for building the interprofessional education curriculum.

These educational competencies include student instruction and assessment in values and ethics for interprofessional practice; roles and responsibilities of health professionals; interprofessional communication; and teams and teamwork.³

P₁ ACTIVITIES

In the revised Pharm.D. curriculum, students learn foundational interprofessional education principles such as communication and team dynamics through completion of the Fundamentals of Health Care Practice course sequence. Then, they have several opportunities to apply these principles through interprofessional simulations and experiential education.

Students start their interprofessional education simulations in the first year of the professional program. P₁ students collaborate with nursing and dietetics students to interview a simulated patient and design a plan to improve the patient’s medication adherence in an outpatient setting. The focus of this simulation is learning about the roles and responsibilities of health professionals and how they can collaborate to solve health problems.

P₂ ACTIVITIES

In the P₂ year, students participate in two simulations with nursing students using high-fidelity human patient simulators to practice skills in problem-solving and conflict resolution. In the first activity, the interprofessional team works together to solve a patient care problem specifically utilizing knowledge of pharmacology.

The second activity focuses on communication barriers among health-care professionals and conflict resolution.

This year, a new interprofessional education activity was implemented involving most of the health professions majors at SDSU. Students from pharmacy, nursing, athletic training, counseling and human development, dietetics and exercise science participated in a poverty simulation in January. More than 200 students had the opportunity to work with other health professions students while learning more about social determinants of health.

P₃ ACTIVITIES

The complexity of the interprofessional education activities increases in the P₃ year as the students work in larger interprofessional teams and focus on interactions with student prescribers.

Pharmacy students work with a team of students from health professions programs at the University of South Dakota (11 health professions, including pharmacy) to identify and solve problems in a simulated patient case conference.

A second interprofessional education activity in the P₃ year involves pharmacy students and nurse practitioner students. In this exercise, the pharmacy students evaluate a new prescription and contact the prescriber with identified concerns; the two health professions then solve the problem collaboratively. In addition, pharmacy students participate in an interprofessional statewide disaster preparedness and response training day.

Finally, in Introductory Pharmacy Practice Experiences and Advanced Pharmacy Practice Experiences, students demonstrate their competency in interprofessional teamwork by collaborating with health professionals and health professions students in practice settings.
DEAN'S AWARDS

With selection assistance from an external committee of College of Pharmacy and Allied Health Professions alumni and stakeholders, the following awards were presented at the Spring Convocation and Awards Program April 18:

JOSH REINEKE: EXCELLENCE IN RESEARCH AND SCHOLARLY ACTIVITY

He was cited for being at the forefront of in-vitro 3D cancer modeling for pancreatic cancer and novel drug delivery approaches for treating pancreatic cancer. In addition, he published six research papers in top-rated journals, gave four research presentations, received two research awards from the South Dakota Board of Regents and an National Institutes of Health sub-award.

Reineke also has been collaborating with researchers within and outside of SDSU, filed a provisional patent application and served as an ad hoc reviewer on two grant panels.

TERESA SEEFEELDT: EXCELLENCE IN TEACHING

The award emphasizes innovation, scholarship and mentorship. A judge noted: “Dr. Seefeldt has been able to demonstrate and execute an understanding of how to get students to tie the concepts of the classroom and real-life experience together through increased use of simulations. In addition, publication and presentation of these innovations helps position the college and students ahead of their peers.”

PAM RIEGER: COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS STAFF AWARD

She was cited for her “above and beyond efforts.” In addition to timely and accurate work, her nominator cited this example:

“On the first day of fall semester this year a nonpharmacy student was having trouble finding her classroom and stopped by Pam’s office for help. Pam was able not only to help direct her to the classroom in Avera but Pam also pulled up the student’s schedule and let her know that this particular class would be in a different building on a certain day of the week. She then made sure she knew where the other building was and offered to print out a map.”

SHAFIQUR RAHMAN: COMMUNITY ENGAGEMENT AWARD

This award honors contributions to SDSU and the community at large. He was cited for serving as a community member on the Brookings Human Rights Commission since 2013. Another example of his community engagement includes serving as a panelist for an event organized by the Islamic Society of Brookings and the SDSU Common Read Committee Oct. 4, 2017.

STUDENT NOTE

Simon Newkirk received the Award for Excellence in Scholarly Activity from the SDSU Professional Staff Advisory Council this spring. Newkirk is a postdoctoral research associate in the laboratory of Wenfeng An in the Department of Pharmaceutical Sciences.

ALUMNI NOTE

Arielle Martin ’11 was named 2017 Preceptor of the Year by Idaho State University College of Pharmacy.
FACULTY IMPACT IN TEACHING, RESEARCH AND SERVICE

As we end the academic year, I’m excited to share some of the recent faculty awards and recognitions.

The College of Pharmacy and Allied Health Professions presents annual awards to recognize faculty who have excelled in teaching, research and scholarship and community service.

Teresa Seefeldt received the award for excellence in teaching for this academic year. She teaches pharmacology, one of the core pharmaceutical science courses in both the pharmacy and nursing programs. Seefeldt collaborated with faculty in the Department of Pharmacy Practice and the College of Nursing to develop and implement a high-fidelity interprofessional education activity in the pharmacology course. The findings from this innovative teaching approach were recently published in Currents in Pharmacy Teaching and Learning. The interdisciplinary simulation activity significantly enhanced the learning outcomes of both nursing and pharmacy students in the course.

Joshua Reineke received the award for excellence in research and scholarship. Reineke’s research focuses on nanomedicine and pharmacokinetics. He recently received a grant from the South Dakota Board of Regents for a project to develop an in-vitro 3D cell culture model for pancreatic cancer. His primary goal is to use this in-vitro cell culture model to study the effects of drug and drug delivery systems on pancreatic cancer. He also published a review article in one of the top drug delivery journals, where he discussed how the nanomedicine-based drug-targeting approach used in cancer can be extended to other diseases such as arthritis, cardiovascular and infectious diseases, among others.

Hemachand Tummala received the college’s Distinguished Researcher Award at the university’s Celebration of Faculty Excellence event in February. Tummala received this award for his outstanding research accomplishments and research productivity.

A novel vaccine delivery system developed by Tummala’s group has been licensed to a Brookings-based startup company. During this academic year, he received a grant from the U.S. Department of Agriculture to explore the feasibility of using this delivery system to develop an effective vaccine for swine influenza.

Tummala’s group also recently developed a patented polymeric oral formulation for curcumin, a natural compound with multiple health benefits. This work received the best poster award for the North American region from Evonik Industries, a global polymer company based in Germany. A patent was issued for this formulation in 2017. He received a grant from the SDSU-Sanford Profile Research grant program to develop a nutritional supplement using this patented formulation.

Finally, Shafiqur Rahman received the award for community engagement. He is a member of the Brookings Human Rights Council, which organized the interfaith panel discussion in Brookings last fall. Rahman is a frequent speaker and participant in interreligious/cultural panels both within and outside SDSU.

These awards recognize the outstanding contributions of our faculty. We take great pride in our faculty’s commitment to excellence in teaching, research/scholarship and service to the community. I wish you a wonderful summer!
Greetings from the Department of Pharmacy Practice. Although we have wrapped up this academic year, we have been quite busy over the summer term preparing for the beginning of the next academic year, which will be here before we know it.

The day after spring commencement, five faculty members traveled to the 2018 AACP Institute to work on experiential components of the curriculum, which was the topic area for this year’s Institute.

We spent 2½ days working on a variety of areas related to our experiential programming as part of the professional pharmacy program. Topics included in the workshop were integrating entrustable professional activities into experiential education, remediation during practice experiences, scholarship as it relates to experiential instruction and optimizing student assessment, as well as preceptor development.

Overall, it was a very busy workshop and the team made a lot of progress and accomplished a great deal. We will continue to keep moving on these areas of experiential education over the summer.

Another area of major focus this spring and summer has been the revision of the professional pharmacy program curriculum. In addition to the changes and modifications to specific courses and course content, we have been quite busy with the planning and now remodeling of our instructional lab spaces.

The updated instructional lab spaces will have a dramatic new appearance and significant improvements with a variety of educational delivery methods available. The two instructional lab spaces have been identified by the content that will be taught in them.

The first lab will be the compounding lab. It will have everything as it relates to sterile and non-sterile compounding. The sterile products compounding lab will include an anteroom set up. The nonsterile compounding section will be in the main open area of the lab.

The second redesigned instructional lab is what we are referring to as the pharmacy care lab. This reconfigured space will have seven areas where small groups can work on group projects and assignments. We also have designed space in which we will have an acute care hospital-type room with a bed and one of our high-fidelity simulation mannequins. The other unique area that was designed into this laboratory space is a community pharmacy. This space will look exactly like a community pharmacy for our students to develop and work on a variety of skills as they relate to operations and functions of community pharmacy.

Something unique to both of these instructional lab spaces is the functionality and flexibility of the main areas of the two instructional labs. Both will contain seating and tables that will be flexible to allow for a traditional lecture style setup or to be modified and set up in team-based learning groupings. The flexibility of these spaces will allow us to better deliver the revamped curriculum and the integrated laboratory course.

One of the other major redesigns in the instructional labs is the addition of quite a bit more technology. Multiple television displays will be in both labs with wireless connections to allow student groups to display materials related to assignments they are working on. We are also introducing more audio and video-recording equipment in both labs to allow for more recording and evaluation of skills assessments and also to allow for new and innovative approaches to student instruction in the labs.

We are excited to see the results of all the planning that went into the redesign of the instruction labs. It will truly have a positive impact on student instruction and skills development. In addition, we are also making plans to use the spaces to deliver more contemporary and interactive continuing education programming for pharmacists in the state and region.

As we continue to redesign our pharmacy program curriculum, it is important to be able to make certain that we have high functioning and impactful learning spaces. We look forward to showing prospective students and others our state-of-the-art instructional laboratory spaces beginning this fall.
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Alumni and friends on this list have contributed $500 or more toward the College of Pharmacy and Allied Health Professions. They are recognized as devoted friends of the college who make significant impact on the college’s future. Their names will be listed in the SDSU Honor Roll and the college newsletters. They also will receive invitations to special college and university functions and updates from the college dean.
EXPRESSING APPRECIATION, PRIDE, LOYALTY

In recent months, I have had numerous opportunities to meet with College of Pharmacy and Allied Health Professions alumni and friends in the region and across the country.

Through those, I am learning a lot about the appreciation, the pride and the loyalty alumni have for the college and for South Dakota State University. What I am also learning is that there is strong inclination to give back and a deep commitment to supporting the college’s promise of delivering academic excellence to today’s students.

I have to be honest here.
I love the work I do every day!

As development director for the College of Pharmacy and Allied Health Professions, I have the privilege to work alongside Dean Jane Mort and the college’s faculty and staff. I’m connected to the broader campus community as it educates and supports students and as it engages in research and outreach. The SDSU Foundation staff is a great team of professionals committed to the work they do—and they enjoy it.

And, if that’s not enough, I have the privilege to come to know alumni and friends who have appreciation, pride, loyalty and want to invest in students and build on the great things happening in the college.

It’s awesome work.

The college has a well-earned reputation of delivering on its promise of a premier education. Private investment supports these efforts and helps to make great transformations occur.

I encourage you to go to the SDSU Foundation’s website to learn more about ways your gifts make an impact. I encourage you to reflect on where you might make a difference. Is it supporting a student with a scholarship? Is it facilitating research or community pharmacy innovation? Is it making more faculty development possible?

Supporting a scholarship or making an investment in the college is a great way to express your appreciation, pride and loyalty. As importantly, you assist the college as it recruits high-achieving students, facilitates change in health care and engages in important and critical research.

I encourage you to give me a call or send me an email. I would love to meet you and hear about your connections to the university and to the College of Pharmacy and Allied Health Professions and to learn more about how you would like to make an impact!

- Lisa Otterson

Lisa Otterson
Development Director
Lisa.Otterson@SDStateFoundation.org
Toll-free: (888) 747-7378

NOMINATIONS REQUESTED FOR THE DISTINGUISHED PHARMACY ALUMNUS AWARD

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

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

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

Send materials to: Dan Hansen, SDSU College of Pharmacy and Allied Health Professions, Box 2202C, Brookings, SD 57007-0099; or by email at dan.hansen@sdstate.edu. The annual deadline for submitting nominations is March 1, 2019. The College of Pharmacy and Allied Health Professions Advisory Council will select an award winner from the nominees based on the above criteria.

The award will be presented at the annual College of Pharmacy and Allied Health Professions Scholarship Luncheon. Nominees not selected for the award are still eligible for three years following the nomination.
CHARITABLE IRA ROLLOVER

Ruth Bassett ’57 of Highlands Ranch, Colorado, each year chooses to gift appreciated stock rather than write a check to fund her endowment and provide annual scholarships for P3 and P4 pharmacy students.

“It really is a win-win situation,” Bassett explained. “Gifting stock has always been my way of making charitable gifts. I bypass capital gains plus receive a tax deduction. I am grateful for the wonderful education I received at SDSU. Providing a scholarship is my way of giving back.”

Now that capital gains taxes have effectively increased in over 40 states since the passage of the new tax bill—since Americans can no longer deduct them on their Federal return—gifting appreciated assets like securities has more tax benefit than ever. When a taxable asset like stock is gifted to SDSU, the charity pays no tax when it is sold. Also, the donor is entitled to an income tax deduction.

This is not intended as professional advice. Consult with a qualified tax professional before making a charitable gift.

“WITH THE NEW TAX LAW—WHAT ARE SOME SMART WAYS TO SUPPORT SDSU, NOW THAT THE RULES HAVE CHANGED?”

The passage of the Federal 2017 Tax Cuts & Jobs Act doubled the standard income tax deduction for the next five years. According to the Joint Congressional Committee on Tax, the number of itemizers is expected to decline from 45 million Americans to just under 18 million, effectively making cash gifts to charities the least tax-wise way to give.

Gifting assets like tangible personal property (farm equipment, grain and livestock), the Charitable IRA Rollover for those over age 70 ½ or utilizing innovative methods like directing your broker to swap a highly appreciated stock with a charity to reduce future capital gains exposure when you eventually do sell it, can have tremendous benefits for almost everyone. Learn how SDSU alumnus Ruth Bassett chooses to make her charitable gifts.

RANKING THE BEST ASSETS FOR CHARITABLE GIFTS

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