

School of Pharmacy



Dean's Report 2016

DEAN

Message from the

Mahatma Gandhi once said, “The best way to find yourself is to lose yourself in the service of others.” The highlights of our accomplishments in this year’s Dean’s Report epitomize this saying. Our students, faculty, staff and alumni are committed to our mission of making a difference through serving our patients and communities to improve the health and well-being of our region and beyond.

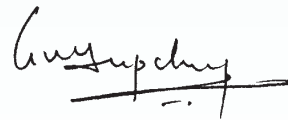
Whether it is through our student, faculty or alumni volunteers, we focus on making an impact on peoples’ lives. In our most successful year garnering research funding, our endeavors include interdisciplinary approaches to improving suicide awareness, improving medication safety for the elderly, identifying dietary factors that could affect the brain, improving the lives of Alzheimer’s disease patients, and improving access to care for underserved patients in East St. Louis.

We provide leading-edge instruction to improve patient lives. Examples include the NIH Center of Excellence in Pain Education (COePE) at the school and our partnership with the Illinois Pharmacists Association to provide online training for pharmacists to help prevent opioid overdose. Our newest educational endeavor is the MS in Pharmaceutical Sciences, which will allow students to contribute positively to our drug discovery and development efforts.

Our activities this year often reminded me of the anonymous saying, “If you want to touch the past, touch a rock. If you want to touch the present, touch a flower. If you want to touch the future, touch a life.”

I trust you will enjoy the stories of achievements and lives touched through community service, research and education.

Warm Regards,



Gireesh V. Gupchup, PhD, FAPhA
Professor and Dean, SIUE School of Pharmacy



ABOUT SIUE

SIUE awards degrees in undergraduate, graduate and doctoral programs encompassing the arts, sciences, nursing, education, health, human behavior, business and engineering. The Schools of Dental Medicine and Pharmacy award doctor’s first-professional degrees in dental medicine (DMD) and pharmacy (PharmD). Doctoral programs are available in nursing practice and educational leadership. Cooperative PhD programs in history, engineering science and computer engineering are offered with SIU Carbondale.



ABOUT THE SCHOOL OF PHARMACY

The SIUE School of Pharmacy offers students an interprofessional, integrated and team-based learning approach to pharmacy practice and pharmaceutical science education. Students gain invaluable experience in real-world settings through the School’s experiential approach to education – working side-by-side with faculty members and preceptors who have gained national recognition for industry experience, research innovations and educational leadership.



SCHOOL OF PHARMACY GOALS

- Advance innovative education, service and scholarship programs
- Promote faculty and staff development and support
- Foster prospective pharmacy students
- Expand and support professional growth of students and alumni
- Cultivate diversity and inclusiveness
- Identify, develop and sustain external relations and financial support

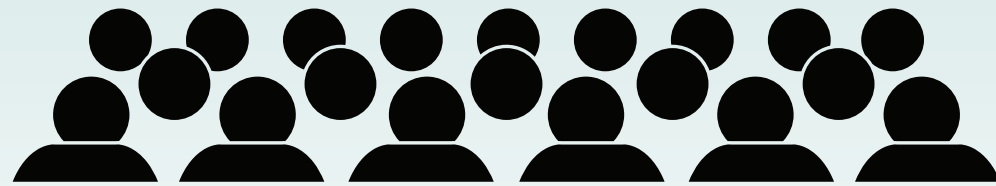
SCHOOL OF PHARMACY MISSION

The SIUE School of Pharmacy is an interdisciplinary educational community dedicated to the preparation of pharmacy professionals, scholars and leaders to improve the health and well being of the region and beyond.

NUMBERS

Pharmacy by the

Total Alumni: 622



60% **SIUE Undergraduates**

40% **Non-SIUE Undergraduates**



96.6%

NAPLEX pass rate for first-time test-takers (2009-2015 average)



96.8%

MPJE pass rates for first-time test-takers (2009-2015 average)



Graduation Rate:

92% **97%**
on-time overall

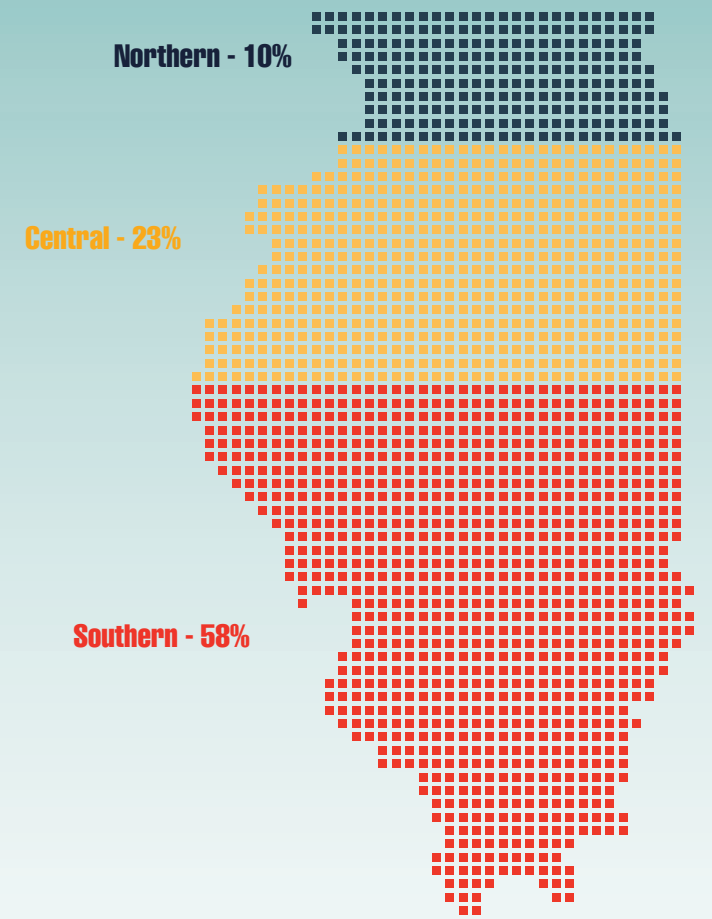
Matriculation Average Cumulative GPA:
(Class of 2020)

3.53

Average PCAT:
(Class of 2020)

62

Residence



91% of students are Illinois resident
9% of students are out-of-state residents

In Memory

Former faculty member Julie P. Karpinski, PharmD, of Menomonee Falls, Wis., died Monday, Sept. 7, 2015, at age 39. She was a founding faculty member of the School and made invaluable contributions as assistant professor from 2005-2009.



Fourth-year student Bradley Brown of Alton died Saturday, May 14, 2016, at age 25. A member of the Class of 2017, he was scheduled to begin his senior clinical rotations in May. He was an honor to teach and beloved by his classmates.



TEACHING

New Program Expands Students' Academic and Career Options

Graduate student Michael Cusack is building on his background in biochemistry and organic chemistry to hone his skills for the pharmaceutical sciences field. To ensure his education matches what the industry is seeking, Cusack, of Olympia, Wash., chose the new Master of Science in pharmaceutical sciences program in the School of Pharmacy.

"With the program's size and the positive communication I have had with faculty, I am confident I will get a great education at SIUE," Cusack said.

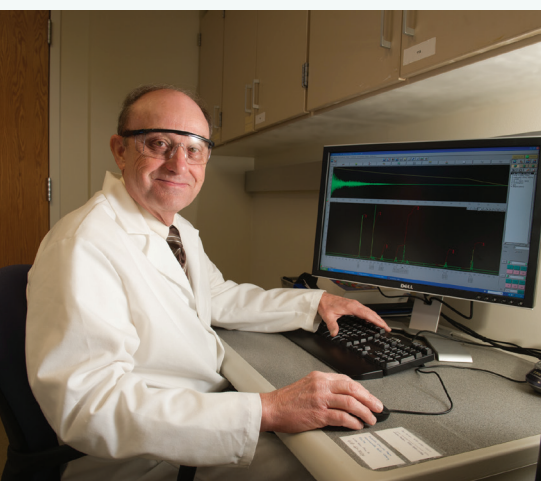
Since its founding, the School has recruited internationally recognized faculty to ensure overall quality. The research program, as a result, has advanced rapidly with numerous federal grants, infrastructure additions and improvements. The master's in pharmaceutical sciences capitalizes on that expertise and infrastructure to offer students an excellent range of career options. SIUE is the only school in Illinois and the metro St. Louis area to offer this degree.

While pharmacists manage patient care with therapies using existing drugs, pharmaceutical scientists work to discover and develop new drugs. The pharmaceutical sciences not only determine the detailed biological mechanism of disease, but also develop the molecular interventions that can provide the treatment or cure.

"By studying the pharmaceutical sciences, students concentrate on their chosen discipline in the laboratory, and receive exposure to a number of other important areas in both the classroom and by participation in research," said Dr. Bill Neumann, graduate program director and associate professor of pharmaceutical sciences.

Students will have the tools necessary to pursue careers in research engaging in the discovery and development of new drugs, or to pursue doctoral degrees in health sciences, and medical and drug discovery research. Additionally, students will be prepared for other science- and technology-related positions relevant to the pharmaceutical industry.

"On the basis of my prior work with graduate students at other institutions, master's in pharmaceutical sciences graduates have found highly attractive research positions in the pharmaceutical industry," said Dr. Mike Crider, chair of the pharmaceutical sciences department. "We expect the same to happen with students in our program."



MS in Pharmaceutical Sciences Concentrations

- Medicinal chemistry
- Pharmacology
- Pharmaceuticals

Leading the Way to Prevent Opioid Overdose

With an estimated 23.4 million adults experiencing severe pain, chronic pain is a growing issue in the United States. So, too, is the number of opioid overdoses, with prescription pain killers and heroin being the primary causes for those increasing rates. The School of Pharmacy is at the forefront of these concerns.

"While we have this unmet need for those with under-treated pain in the U.S., we also have a growing issue of prescription opioid misuse," shared Dr. Chris Herndon, associate professor of pharmacy practice and SIUE's National Institute of Health Centers of Excellence in Pain Education (NIH CoEPE) principal investigator. "Patients are limited due to non-opioid treatment options frequently being unaffordable and not covered by insurance."

One of 12 institutions selected to serve as an NIH CoEPE in 2012, SIUE renewed its contract with NIH to receive continued financial support in the area of pain research for up to five additional years. As an original NIH CoEPE institution, SIUE acts as a hub for the development, evaluation and distribution of pain management curriculum resources for medical, dental, nursing and pharmacy schools, in an effort to enhance how health care professionals are taught about pain and its treatment.

"As advanced as our healthcare system has become, we are still failing miserably at handling perhaps the biggest issue facing public health," Herndon said. "Chronic pain is more prevalent than diabetes or heart disease, yet we have little long-term data as to how to treat these folks. These patients and their providers frequently must weigh the potential benefits of opioid analgesics against a growing understanding of their associated risks, including addiction."

In response to the issue, the state of Illinois enacted a public act in September 2015 to focus on opioid overdose prevention measures. A large focus of this public act allows law enforcement officers, firemen, school nurses and others employed by schools, to administer opioid reversal agent naloxone to any person who is having an opioid overdose.

Dr. Jessica Kerr, assistant chair and associate professor of pharmacy practice, Dr. Kelly Gable, associate professor of pharmacy practice, and Herndon worked with the Illinois Pharmacists Association to develop and administer online training for pharmacists to help prevent opioid overdose.

Participating pharmacies and pharmacists can assist by providing rescue naloxone therapy, along with required safety information regarding signs and symptoms of opioid overdose, how to provide rescue breathing, possible adverse effects of naloxone therapy, and emergent call for help by contacting emergency medical services to engage acute treatment.

Once a pharmacist has completed the appropriate state paperwork, they can provide assistance to patients or caregivers without an individual prescription.



"Our hope is that by further educating the community and health care professionals, everyone can join forces to stop the epidemic of prescription drug overdose deaths."

Dr. Jessica Kerr, assistant chair and associate professor of pharmacy practice

STUDENTS

Graduates Attain Near Perfect Residency Match

For School of Pharmacy graduates seeking a competitive advantage in the job market, more clearly defined career goals and a better perspective on which area of care best suits their interests, residency programs are the key.

The School works with the American Society of Health-System Pharmacists (ASHP) to match applicants to residency positions. “The Match” helps applicants obtain positions in residency programs of their choice and helps programs obtain applicants of their choice through an orderly process.

While 68 percent is the national average for being successfully matched as a resident, 90 percent of the School’s graduates pursuing residencies obtained a match.

“Our success in residency match reflects the quality of our students and the School’s PharmD program, as well as our amazing faculty’s devotion to helping students,” said Dr. Jingyang Fan, clinical associate professor of pharmacy practice and assistant dean for academic affairs.

“Completing a residency will provide me with more opportunities to practice in my areas of interest, as well as expand my leadership and inter-professional communication skills.”

Amanda Daniels, PharmD '16, Pharmacy Practice Resident at HSHS St. Elizabeth's Hospital, Belleville



Student Volunteers Inspired in Jamaica

In the span of one week, nearly 900 underserved and underprivileged children and adults in Jamaica received much-needed dental care and medical consultation from future dental and pharmacy professionals. Students from the School of Pharmacy and the SIU School of Dental Medicine provided care during the annual Jamaica Dental Mission trip in July.

“We worked 10-12 hour days in harsh conditions, but it was definitely worth it,” said Jordan Sinclair, 4th year student. “Service is important to me, and it’s a great feeling to see how much the patients appreciated the care we provided.”

Sinclair, who has been part of the mission trip for the last two years, was one of 57 student and professional volunteers providing long days of care in hot conditions at two Jamaican clinics. Dental medicine students, under dentists’ supervision, offered basic oral hygiene education, dental examinations, preventative and restorative treatment, and extractions.

Under the supervision of pharmacists, pharmacy students completed patient histories, blood pressure and blood glucose screenings before the dental treatment. After the treatment, patients with prescriptions came back to the pharmacy students for medications, patient education and special instructions.

“Getting to work alongside other health care professionals was a huge learning experience,” said 3rd year student Brandy Rosenberg. “We got to share different expertise, learn how to effectively communicate, and most importantly we get the chance to work together to meet patient needs.”

The Rotary Club of Montego Bay provided support for the trip. All participants were volunteers and paid for their flights, accommodations and food.

“The students willingly make a significant financial contribution in order to donate their services,” said Dr. Chris Lynch, professor of pharmacy practice and leader of the mission’s pharmacy team for the past 10 years.

“In fact, our students are so willing to help out that I received 20 applications from 3rd year students for five available spots,” Lynch said. “I don’t need to recruit 4th year students, because most of the students who participate as 3rd years come back the following year.”

“This experience widened my horizons and helped me learn how to communicate with people who are different than me. I’m inspired not to take things for granted.”
Brandy Rosenberg, 3rd year student



RESEARCH

School Awarded Grant to Heighten Suicide Awareness

Suicide Prevention Resource Center research reveals that approximately seven percent of college undergrads seriously considered suicide in 2012, and more than 1,000 college students commit suicide annually.

“Multiple stressors, such as grade pressure and social media influence, coupled with an emerging sense of self, are all part of a young student’s college life and can contribute to the development of anxiety and depression,” said Dr. Kelly Gable, associate professor of pharmacy practice. “Suicidality may go unnoticed if a student feels uncomfortable talking about mental health struggles or is not aware of their treatment options.”

The School’s commitment to student safety and support was strengthened by the receipt of a 2015 Campus Suicide Prevention Grant. The Substance Abuse and Mental Health Services Administration awarded the \$299,442 grant to the SIUE Schools of Pharmacy and Nursing, and Counseling Services to develop the SIUE iCARE suicide prevention initiative.

iCARE takes an aggressive, multi-tiered approach to increase awareness, education and recognition of at-risk behaviors of students in crisis, improve campus policies and procedures for assisting these students, and reduce negative stigmas of counseling and help-seeking.



“We hope the iCARE initiative will not only raise awareness about suicide prevention, but also empower students to seek help for themselves and others when faced with depression or suicidal thoughts.”
Dr. Kelly Gable, associate professor of pharmacy practice

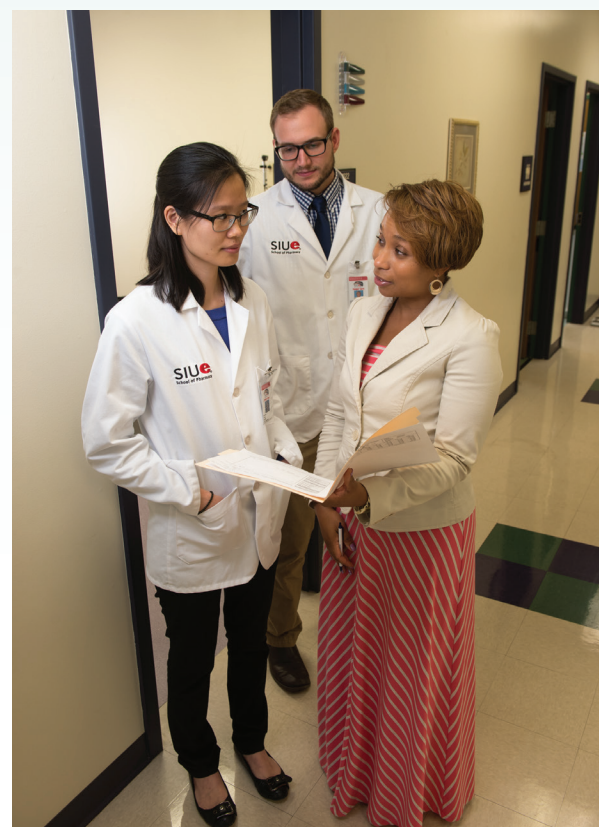
Grant to Improve Health Care Access and Outcomes

SIUE was awarded a three-year, \$1,085,903 grant from the Health Resources and Services Administration. This interdisciplinary grant provides funding for the Schools of Nursing, Pharmacy and Dental Medicine, and the Department of Social Work, to greatly expand the scope of services provided at the WE CARE Clinic on SIUE’s East St. Louis campus.

By taking an interdisciplinary approach, patients will have access to primary and dental health care, pharmacy consultation, and a medical social worker all in one visit.

With the four disciplines working side-by-side in a collaborative environment, communication among professionals and patients will be improved, ultimately leading to improved health outcomes and reduced costs. The practice also stands to enhance the education of SIUE students involved in patient care.

“Exposing students to an interprofessional environment where they can receive practice-based training among other healthcare disciplines is a unique opportunity for them,” said Dr. Lakesha Butler, clinical associate professor of pharmacy practice.



Investigating Dietary Effects on the Brain

Dr. Ken Witt, associate professor of pharmaceutical sciences, and his team of researchers have been awarded a \$398,000 grant from the National Institutes of Health (NIH) to assess the effects of various dietary fats on the brain vasculature in association with inflammation.

The receipt of this R21 grant marks the second concurrent grant presented to Witt by the NIH. He is also currently working with a \$2.65 million RO1 grant for Alzheimer’s research.

According to Witt, the primary goal of this particular research program is to define key dietary factors that may make the brain more susceptible to disease and/or cognitive decline.

“Obesity has become an epidemic in Western society, with the U.S. adult obesity rate of 30 percent,” explained Witt. “The contributions of obesity to brain-related illnesses such as stroke and neurodegenerative disease have been documented.”

Witt says what makes this research particularly unique is its focus on the brain microvasculature, the finer vessels such as arterioles and capillaries, as a target of dietary effects. This research examines not merely in the context of disease and health outcomes, but also the identification of key proteins that may serve as targets for drug treatment.



“The designation of not one, but two grants by the NIH is remarkable. Dr. Witt is a distinguished leader in the area of neuropharmacology scholarship.”
Dr. Gireesh Gupchup, School of Pharmacy Dean

Enhancing Safety for the Elderly

Drug ineffectiveness, adverse drug effects, over dosage, under dosage, and drug interactions are some of the common medication-related problems faced by older adults leaving the hospital.

“Finding and fixing those problems early after discharge can improve medication safety for seniors and may help reduce the need for additional hospital or emergency room visits,” said Dr. Mark Ruscin, chair and professor of pharmacy practice and primary investigator for a new, two-year, \$329,662 grant awarded to the School of Pharmacy.

The School is working cooperatively with Senior Services Plus, based in Alton, to improve the safety and effectiveness of medication use during care transitions from hospital to home for older adults. The SIU School of Medicine’s Center for Clinical Research is also a collaborator on the project.

Through its hospital-to-home program, Senior Services Plus provides coaches who work with older adults leaving hospitals across Madison and St. Clair Counties. The grant enables pharmacists to work with coaches to address medication management during site visits.

The grant is a collaboration between Pfizer Independent Grants for Learning & Change and Bristol-Myers Squibb Independent Medical Education, who are providing all project funding, and The Joint Commission, who will provide administrative oversight for the program.



“Having pharmacists working with the coaches on medication management will enhance patient safety.”
Dr. Mark Ruscin, chair and professor of pharmacy practice

ALUMNI

Alumni Serve the Community of Smithton

School of Pharmacy alum Frances Schneider, PharmD '13, demonstrates exemplary service to her patients at the Smithton Pharmacy, her independently owned pharmacy in Smithton, Ill. Utilizing the entrepreneurial interests of her husband, fellow alum Bryan Schneider, PharmD '10, the pair have created a flourishing business.

Opened in December 2015, the Smithton Pharmacy provides prescriptions, over-the-counter medications, immunizations, nutrition supplements, general hygiene items and more. After thorough research, the Schneiders selected Smithton as the ideal community.

“Smithton could support at least two pharmacies but didn’t have one yet,” Bryan said. “I purchased property and provided the business resources necessary to help Frances open her pharmacy.”

Still in its first year of operation, service to patients is what sets the Smithton Pharmacy apart from others.

“Frances is willing to do anything for anyone, and will go anywhere to get what the townspeople want,” Bryan said.

That caring and service-oriented nature is what drove Frances to establish an independent pharmacy.

“I worked in retail pharmacy previously,” Frances said. “Having my own business, I now feel I know my patients better, and I’m doing my job more thoroughly.”

The importance of these interactions was evidenced recently when Frances became concerned for one of her patients undergoing cancer treatment. While speaking to her by phone, Frances sensed confusion and knew something was not right. She contacted the patient’s husband to express her concerns, and as a result her patient was hospitalized later that day with an infection.

“The School of Pharmacy definitely emphasized the clinical nature of pharmacy,” said Frances. “I feel that I am putting that to good use and doing everything I can to provide the best care for my patients.”

More than a local business, the Smithton Pharmacy is establishing itself as a community friend.



GIVING

Campaign for Students Surpasses Goal

The School of Pharmacy set a goal to raise \$60,000 in endowed scholarships through the Pharmacy’s Best & Brightest Endowed Scholarship Campaign and Paver Drive. With the support of generous alumni, faculty, parents, peers, Pharmacy Advisory Board members and friends, approximately 100 personally engraved pavers were purchased and matching leadership gifts were received that together totaled more than \$63,000.

To recognize and thank donors now that fundraising is complete, an engraved paver pathway will be built around the School’s medicinal garden, and a leadership donor wall placed in the Student Learning Center. The School plans to host a special reception October 21 to celebrate the success of the campaign.

“We’re so very thankful to alumni, faculty, organizations and community members who supported the success of our paver drive and leadership gift campaign,” said Dr. Gireesh Gupchup, dean of the School of Pharmacy. “This enables us to build a reserve of endowed scholarship funds that will be there in perpetuity to create a better future not only for our students, but for the region.”



New Campaign to Support Strategic Initiatives

The role of pharmacists has grown far beyond dispensing drugs. Pharmacists have a vital role in delivering the high quality, affordable and accessible healthcare people and communities need for their health and well-being.

Contributions to the School of Pharmacy make an important difference in preparing the next generation of pharmacy leaders and meeting the health care needs of people, businesses and communities in our region, state and nation.

“The School of Pharmacy is an integral part of the health of our community,” said Dr. Gireesh Gupchup, dean of the School. “We graduate students who go out and make patients feel better. We help drive the health and economic development of our community.”

On the heels of a successful endowed scholarship campaign, the School has launched a new high-impact campaign to support strategic initiatives to achieve the next level of excellence in pharmacy, education, practice, research and service. These include student global education experiences, clinical skills lab infrastructure, the new master’s in pharmaceutical sciences program and related research programs.

**Support the next level of excellence
in pharmacy education for the benefit
of our region, state and nation**

siue.edu/pharmacy/give

OUTREACH

Community

Camp Encourages Diversity in Healthcare

Each summer, 25 high school students from Madison, St. Clair and St. Louis counties participate in the week-long camp, which began in 2009 to encourage minorities to explore a career in pharmacy. The program expanded in 2013 to include the Schools of Nursing and Dental Medicine and has become a catalyst for encouraging students to pursue a healthcare career.

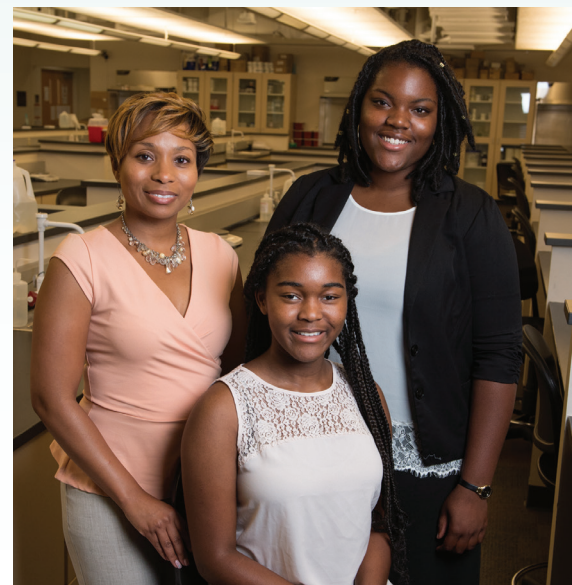
“Last year’s SIUE Healthcare Diversity Camp was the deciding factor for me coming to SIUE this fall,” said Jordan Robinson, who plans to major in pre-medicine. “I’ve always had an interest in healthcare, but I didn’t know how exciting it could be until camp.”

“A major purpose of the camp is to expose minority high school students to healthcare careers they may have never considered,” said Dr. Lakesha Butler, camp coordinator and clinical associate professor.

Yasmyn Knight attended the Healthcare Diversity Camp in 2011 and is now a 4th year pharmacy student.

“Pursuing a profession in healthcare was always a goal of mine, but I found myself discouraged by the low representation of African American physicians practicing within our society,” Knight said. “After the first day of camp, my eyes were instantly opened to the endless possibilities that SIUE and the field of pharmacy had to offer.”

Thanks to financial support from Walgreens, Express Scripts and Target, the camp is free of charge to participants.



“It was encouraging to witness the number of faculty and student pharmacists who took time to mentor high school students.”
Yasmyn Knight, 4th year pharmacy student

Diabetes Education Program

As part of its commitment to community service, the School of Pharmacy hosted the 10th annual Diabetes Education Program for more than 100 community members. The program included speaker sessions, a vendor fair, diabetes screenings and one-on-one counseling with healthcare professionals for the community members.

Participants are empowered with knowledge to improve their diabetes control, overall health and quality of life. Speaker sessions included a keynote address on making medicine work for the patient, along with presentations on nutrition, myths and technology.

The event was co-sponsored by Alton Memorial Hospital, Novo Nordisk and SIUE Student Government.



Students Help Area Children Stay Safe

School of Pharmacy 1st year students Thien Nga Vu and Jasmine Bennett smiled at the first-graders’ enthusiastic answers about potentially hazardous substances. Bennett and Vu were one of 40 teams that provided poison prevention lessons to more than 5,000 pre-K-third grade students from Madison and St. Clair counties.

“As a pharmacist, it’s important to be able to communicate with anyone, regardless of age, as we have the accessibility and knowledge to greatly influence health outcomes and positively impact the community,” Vu said.

The annual service learning program helps pharmacy students further their ability to work with others, practice public speaking, and break down complex topics into a meaningful format for the audience.

“This experience helped me realize that it does not matter what you do if you don’t remember to give back to those in your community.”
Jasmine Bennett, 1st year pharmacy student



PROFILE

Steve Peipert

From Skeptic to Supporter

When Steve Peipert first read a newspaper article about SIUE opening a school of pharmacy in 2003 to serve the needs of southern Illinois, he was surprised and skeptical.

“The trend at that time was to open more pharmacy schools across the country, and it seemed like there were too many opening at one time,” Peipert said. “I was concerned they were starting a school with minimal funding and without the faculty necessary, so I did not have high expectations.”

Peipert, owner of Brighton Pharmacy in Brighton, Ill., soon changed his opinion after meeting the dean and several faculty members at various pharmacy functions. Within a few years he joined the School of Pharmacy’s advisory board, for which he now serves as vice chair.

“I saw the School’s approach and got enthused,” Peipert said. “SIUE’s philosophy is that we admit 80 of the highest quality students each year and work hard to see them through to completion. In my opinion, that is a much better approach than enrolling two or three times as many students and having a number of them unable to complete the program.”

By keeping enrollment at 80, the School maintains focus on excellent faculty members who are invested in and readily available to the students.

“I talk with students and alumni at rotations or events, and they always have something kind to say about the professors who helped them along the way,” Peipert said.

Peipert believes the class size not only enables students to have one-on-one time with faculty, it also creates a family environment with each class forming a tightknit group.

Students successfully complete the School’s PharmD program well educated, with strong communication skills and ready to serve their patients.



2016/2017 SIUE School of Pharmacy, Pharmacy Advisory Board

Chair

Chris Smith, President, Chief Executive Officer,
H. D. Smith, Springfield, Ill.

Vice Chair

Steven Peipert, Owner, Brighton Pharmacy,
Brighton, Ill.

Immediate Past Chair

Elizabeth Cardello, Senior Director, American
Pharmacists Association, Corporate Alliances,
Geneva, Ill.

Secretary

Lisa Lubsch Bimpasis, Clinical Associate Professor,
Pharmacy Practice, SIUE

Members

Paul Abert, Vice President, Business Banking,
First Clover Leaf Bank, Edwardsville
Kate Allaria, Senior Account Manager, BAM,
St. Louis

Brian Doty, Senior Director, Research &
Development, Mallinckrodt, Hazelwood, Mo.
Dan Fieker, Owner, Family Care Pharmacy,
Highland, Ill.

Brett Gilliland, Founder & Chief Executive Officer,
Visionary Wealth Partners, Edwardsville
John Gloss, Administrator, Shriner’s Hospitals for
Children, St. Louis

Heather Fitzgerald, Healthcare Supervisor,
Walgreens, Springfield, Ill.

Maria Kontoyianni, PhD, Associate Professor of
Pharmaceutical Sciences, SIUE

Matt Lewis, PharmD ’10, Staff Pharmacist,
Accredo Health Group

Mike Lloyd, Director, Medical Outcomes Specialist,
Pfizer, Inc., Maryville, Ill.

Karen Matteuzzi, Vice President, Human
Resources, Express Scripts, St. Louis
Scott Meyers, Executive Vice President, Illinois
Council of Health System Pharmacists, Loves Park, Ill.

Bob Mueller, VP East Group Sales, Strategic
Initiatives, Letco Medical, Godfrey, Ill.

J. Michael Patton, Director of Government Affairs,
Illinois Pharmacists Association, Springfield, Ill.

Garth Reynolds, Executive Director, Illinois
Pharmacists Association, Springfield, Ill.

Bobby Sandage, Jr., PhD, President & CEO,
Euclises Pharmacueticals, Inc., Creve Coeur, Mo.

J. Cody Sandusky, PharmD ’12, Pharmacist,
Kroger, Harrisburg, Ill.

Scott Sexton, Student, SIUE School of Pharmacy
Ron Snow, Manager, Professional and College
Relations, CVS Health, Indianapolis

Travis Willeford, PharmD ’09, Staff Pharmacist,
CVS Caremark Corporation, Springfield, Ill.

Harry Zollars, PharmD ’13, Pharmacy Manager,
Sullivan Drugs, Staunton, Ill.

Irene Zollars, Student, SIUE School of Pharmacy

DONOR LIST

We are grateful to the following alumni, board members, faculty, staff, partner organizations and friends for generously supporting the School of Pharmacy during FY16. We also thank each donor to Pharmacy’s Best and Brightest Endowed Scholarship Leadership Gift Campaign and Alumni Paver Drive. The 18-month campaign, which ended June 30, successfully raised more than \$63,000 for endowed scholarships for the benefit of future students of pharmacy.

Asclepius Society (\$10,000+)

Charlie M. Dragovich ’86 and David Silva
Mike N. Wenzel ’70 and Kathy A. Wenzel ’71
Shop ’n Save and
SuperValu Pharmacies, Inc.
Walgreens

Apothecary Society (\$2,000+)

Dr. Guim Kwon and Dr. Felix F. Lee
Stephen and Judith Peipert
J. Christopher and Debra Smith
H. D. Smith Foundation
BJC HealthCare
CVS Pharmacy Inc. and
CVS Health Charitable Trust
Illinois Pharmacists Association Foundation
Kmart Management Corporation and
Sears Holdings Management Corporation
NACDS Charitable Foundation, Inc.
Wal-Mart Stores, Inc.

Mortar & Pestle Society (\$1,000+)

Dr. Bill M. Kolling
Dr. Mark S. Luer
Dr. Philip J. and Patricia C. Medon
Dr. Casey L. Robinson ’12
Connie Stamper-Carr ’79 and Robert H. Carr
Metro East Pharmacists Association
Novo Nordisk, Inc.

Benefactors (\$500+)

Anthony T. Budde ’93 ’01
Dr. Dawn M. Carey ’01 ’12
Heather L. Fitzgerald and Michael Thomas
Brett G. Gilliland
John J. and Susan S. Gloss
Dr. Chris M. Herndon and Angela D. Herndon ’05
Eileen K. and Frank J. Lass III
Dr. Chris C. Lynch and Dr. Jennifer L. Rosselli-Lynch
Dr. Kate L. Newman ’10
Dr. Mark M. Ruscin
Dr. Dawn M. Schmidt ’11 and Dr. Michael D. Schmidt ’12
Dr. Amanda M. Stahnke ’10
Dr. Leighton and Joan Wassilak
Dr. Ron E. Worthington
Dr. Cynthia A. and William A. Wuller
Illinois Council of Health-System Pharmacists

Patrons (\$250+)

Dr. Erin M. Behnen
Dr. Kunjal K. Bhakta ’09
Roy and Susan T. Carlson ’87
Jason L. Cassidy ’03
Dr. Alex C. Dow ’12
Dr. McKenzie C. Ferguson
Dr. Allison C. Gates ’10
Michael D. Lloyd
Lyons J. Lyons
Michael D. Moore ’73
Kristen L. Ochs ’11
Cody C. Sandusky ’12
Mylan Institute of Pharmacy
SIUE School of Pharmacy Class of 2014

Supporters (\$100+)

Dr. Vince K. Ajayi ’10
Dr. Jennifer D. Arnoldi
Dr. Scott J. and Jessie L. Bergman
Judy K. Budzileni
Elizabeth A. Cardello
Dr. Joshua S. Chambliss ’06 ’11
John Charles
Dr. John R. Eigenbrodt ’85 and Michelle R. Eigenbrodt ’86
Dr. Gireesh V. and Chatura C. Gupchup
Dr. Simone I. Hunziker ’10
Joseph M. and Virginia Ilcewicz
Dr. Maria Kontoyianni
Dr. Timothy B. and Susan M. McPherson
Kyle M. Moore
Dr. Cheyenne C. Newsome ’14
Dr. Marcelo J. Nieto
Dr. Therese I. Poirier
Dr. Katie E. Ronald
Scott M. Sexton
Dr. Kendra D. Shields ’12
Dr. Sara M. Smith ’11 and Dr. Bart A. Smith ’10
Ron Snow
Dr. Anna M. Stewart ’12 and Keith M. Stewart ’11 ’14
Dr. Miranda J. Wilhelm
Dr. Robert P. Willhoit ’06 ’10 and Megan E. Willhoit ’06
Dr. Kenneth A. Witt and Karin E. Sandoval
Eigenbrodt Vision Center, P. C.
Pfizer, Inc.
SIUE School of Pharmacy Class of 2010

Friends (Up to \$99)

Dr. Barbara J. Berg ’12
Paula J. Lenhardt ’91
Dr. Marlene Quadros
Tina and Rodney J Roundcount ’83
Dr. Matthew F. Schneider ’11
Dr. Jason E. Scott ’09 and Dr. Ashley D. Jarrett ’10
Community Title & Escrow, LTD

Matching Gifts

H. D. Smith Foundation
Pfizer Foundation
Travelers Community Connections Program

2015-2016 FACULTY RESEARCH AND SCHOLARLY ACTIVITY

Department of Pharmaceutical Sciences Peer-Reviewed Publications

Kota, K; Kuzhikandathil, EV; Afrasiabi, M; Lacy, B; **Kontoyianni, M; Crider, AM**; Song, D. Identification of key residues involved in the activation and signaling properties of dopamine D3 receptor. *Pharmacol. Res.* **2015**, 99, 174-184.

Clifford, J; Chandrasena, K; Canton, C; **Kontoyianni, M.** Preferential Binding of the Marine -Carboline Manzamine A to the NTDK Domain of RSK1. *The FASEB Journal* **2015**, 29, 936.

Masini, T; Lacy, B; Monias, L; Hawksley, D; de Voogd, AR; Illarionov, B; Iqbal, A; Leeper, FJ; Fischer, M; **Kontoyianni, M**; Hirsch, AKH. Validation of a Homology Model of Myobacterium tuberculosis DXS: Rationalization of Observed Activities of Thiamine Derivatives as Potent Inhibitors of two Orthologues of DXS. *Org. Biomol. Chem.* **2015**, 13, 11263-11277.

Kontoyianni, M. G Protein Coupled Receptors: Druggability and Structural Aspects. *J. Autacoids and Hormones* **2015**. 5: e130.doi: 10.4172/2161-0479. 1000e130.

Johns, M; Abadi, SEM; Malik, N; Lee, J; **Neumann, WL**; Rausaria, S; Imani-Nejad, M; **McPherson, T; Schober, J; Kwon, G.** Oral administration of SR-110, a peroxyinitrite decomposing catalyst, enhances glucose homeostasis, insulin signaling, and islet architecture in B6D2F1 mice fed a high fat diet. *Arch. Biochem. Biophys.* **2016**, 596, 126-137.

Johns, M; Fyalka, R; Shea, JA; **Neumann, WL**; Rausaria, S; Msengi, EN; Imani-Nejad, M; Zollars, H; **McPherson, T; Schober, J**; Wooten, J; **Kwon, G.** SR-135, a peroxyinitrite decomposing catalyst, enhances -cell function and survival in B6D2F1 mice fed a high fat diet. *Arch. Biochem. Biophys.* **2015**, 577-578, 49-59.

Poirier, T; Fan, J; **Nieto, M.** Survey of Pharmacy School's Approaches and Attitudes toward Curricular Integration. *Am. J. Pharm. Ed.* (in press).

Neumann, WL; Jamesdaniel, S. Cisplatin-induced apoptosis in auditory, renal, and neuronal cells is associated with nitration and downregulation of LMO4. *Cell Death Discovery* **2015**, 1, 15025.

McPherson, T; Fontane, P; Iyengar, R; Henderson, R. Utilization and costs of compounded medications for commercially insured patients. *J. Managed Care and Specialty Pharmacy* **2016**, 22(2), 172-181.

Weiler, M; **Santanello, C**; Isaacs, D; Rahman, A; O'Donnell, P; Peters, G. Pharmacy Students' Attitudes about Social Media Use at Five Schools of Pharmacy. *Currents in Pharmacy Teaching and Learning* **2015**, 7(6), 804-810.

Devraj, R; Gupchup, GV. Health literacy based communication by Illinois pharmacists. *Innovations in Pharmacy* **2015**, 6(3), Article 215.

Devraj, R; Young, HN. Pharmacy language assistance resources and their association with pharmacists' self-efficacy in communicating with Spanish-speaking patients. *Research in Social and Administrative Pharmacy* **2016** (in press).

Presentations

Devraj, R; Borrego, M; Vilay, M; Pailden, J; Horowitz, B. Chronic Kidney Disease Awareness and Its Relationship to Health Literacy, CKD self-management, and kidney function. 7th Annual Health Literacy Research Conference. November 2-3, 2015. Bethesda, MD.

Hill, Z; O'Bannon, S; **Gable, K; Devraj, R.** The value of a psychiatric pharmacist within an integrated term model of care. 50th ASHP Midyear Clinical Meeting. December 6-10, New Orleans, LA.

Hill Z; **Gable, K**; O'Bannon, S; **Devraj, R.** The value of a psychiatric pharmacist within an integrated term model of care. 19th Annual Meeting of the College of Psychiatric and Neurologic Pharmacists. Colorado Springs, CO.

Reimer, M; Zustiak, SP; **Schober, JM.** A mouse melanoma cell line maintains intrinsic response toward physiologic stiffness. American Society for Cell Biology Annual Meeting. December 2015. San Diego, CA.

Schober, JM. IQGAP1 in cell motility and melanoma. St. Louis College of Pharmacy. March 2016 (regional).

Nieto, M. Curricular Integration-Meeting 2016 ACPE Standards. 2015 AACP and AFPC Annual Meeting. July 2015. National Harbor, MD.

Nieto, M. The role of natural products in drug discovery. Midwest Association for Toxicology and Therapeutic Drug Monitoring. April 15, 2016 (regional).

Eslamimehr, S; **Crider, AM; Neumann, WL.** Back to the future with 3-hydroxyphenylpyrrolidines: Synthesis and evaluation of D3 activity. 50th Midwest Regional Meeting of the American Chemical Society. October 21-24, 2015. St. Joseph, Mo.

Eslamimehr, S; **Crider, AM; Neumann, WL.** Synthesis of N-substituted 3-hydroxyphenylpyrrolidines and their evaluation as selective D3 receptor ligands. ACS National Meeting and Exposition. March 13-17, 2016. San Diego, Calif.

Sandoval, K; Farr, SA; **Crider, AM**; Morley, JE; **Witt, KA.** Somatostatin Receptor Subtype 4 Agonist Enhances Learning and Memory in Aged SAMP 8 Mice. Society for Neuroscience Conference. 2015. Chicago, Ill.

Johns, M; Fyalka, R; Shea, JA; **Neumann, WL**; Rausaria, S; Msengi, EN; Imani-Nejad, M; Zollars, H; **McPherson, T; Schober, J**; Wooten, JS; **Kwon, G.** SR-135, a peroxyinitrite decomposing catalyst, enhances -cell function and survival in B6DF1 mice fed a high fat diet. American Diabetes Association 75th Scientific Sessions. June 2015. Boston, Mass.

Abadi, SEM; Breener, M; Johns, M; Malik, N; Lee, JJ; Ko, S; Lee, HF; **Kwon, G.** Monitoring glucose homeostasis of B62DF1 Mice fed a high fat diet using a mathematical model combined with simulation optimization. American Diabetes Association 75th Scientific Sessions. June 2015. Boston, Mass.

Bruns, J; Abadi, SEM; Knobeloch, T; Zustiak, S; **Kwon, G.** Development of an injectable hydrogel for encapsulation of islets to treat streptozotocin-induced diabetes in mice. Biomedical Engineering Society (BMES) Annual Meeting. October 7-10, 2015.

Department of Pharmacy Practice Peer-reviewed Publications

Department of Pharmacy Practice Publications

Liu M, **Poirier T, Butler LM,** Comrie R, Palidan J. "Design and evaluation of interprofessional cross-cultural communication sessions." *Journal of Interprofessional Care.* 2015; 29(6): 622-627, DOI: 10.3109/13561820.2015.1051215 (published)

Poirier TI, Fan J, Nieto MJ. Survey of Pharmacy School's Approaches and Attitudes toward Curricular Integration. *American Journal of Pharmaceutical Education* (in-press)

Fan J, John B, Tesdal E. Retrospective Evaluation of Dosing Body Weight for Unfractionated Heparin in Obese Patients. *American Journal of Health-System Pharmacists* (in-press)

McNicol ED, **Ferguson MC,** Haroutounian S, Carr DB, Schumann R. Single dose intravenous paracetamol or intravenous propacetamol for postoperative pain. *Cochrane Database of Systematic Reviews* 2016, Issue 5. Art. No.: CD007126. DOI:10.1002/14651858.CD007126.pub3. (published)

McNicol ED, **Ferguson MC,** Hudcova J. Patient controlled opioid analgesia versus non-patient controlled opioid analgesia for postoperative pain. *Cochrane Database of Systematic Reviews* 2015, Issue 6. Art. No.: CD003348. DOI:10.1002/14651858.CD003348.pub3. (published)

Miller P and **Fruelh J.** What are the current recommendations for continued use single or dual antiplatelet therapy for patients requiring daily antiplatelet therapy during common dental procedures? *Evidence-Based Practice.* (in-press)

Zohra N and **Fruelh J.** In pregnant women, does use of hair dye increase rates adverse fetal outcomes? *Evidence-Based Practice.* (in-press)

Putzer D and **Fruelh J.** When should we stop mammography screening for breast cancer in elderly women? *Evidence-Based Practice.* (in-press)

Fruelh J, Lux A, and Lutterbie J. Does long term PPI therapy increase the risk for fractures? *Evidence-Based Practice.* 2015; 18(6):3. (published)

Gable, KN. Antipsychotic Polypharmacy: Helpful or Harmful? The Carlat Psychiatry Report, Volume 14, Number 1, January 2016. (published)

Gable, KN. Opioids – Addiction, Overdose Prevention, and Patient Education. *Power-Pak C.E.Postgraduate Healthcare Education, LLC.* (in-press)

Jaiswal A, Scherrer JF, Salas J, van den Berk-Clark C, Fernando S, **Herndon CM.** Differences in the association between depression and opioid misuse in chronic low back pain versus chronic pain at other locations. *Healthcare* 2016 (in press).

Herndon CM, Nee DB, Atayee RS, Craig DS, Lehn J, Moore PS, Nesbit SA, Ray JB, Fowler-Scullion B, Wahler RG, Waldfogel J. Pharmacist's role in palliative and supportive care: An ASHP Guideline. *American Journal of Health-System Pharmacy* (in press).

Brock CM, **Herndon CM.** A survey of hospice volunteer coordinators: Training methods and objectives of current hospice volunteer training programs. *American Journal of Hospice and Palliative Medicine* 2016; pii: 1049909115625961. [Epub ahead of print] (published)

Gummersheimer A, Todd T, **Herndon CM.** Bupropion use for adjuvant analgesia in a patient with fibromyalgia: A case report. *Fibrom Open Access* 2016;106:1.doi:10.4172/foa.1000106. (published)

Herndon CM. Managing opioid medications for pain relief while preventing overdose, diversion and misuse: The role of the pharmacist. *Pharmacy Times* 2015;81(5):75-87. (published)

Ernst FR, Mills JR, Berner T, House J, **Herndon CM.** Opioid medication practices observed in chronic pain patients presenting for all-causes to Emergency Departments: Prevalence and impact on healthcare outcomes. *Journal of Managed Care & Specialty Pharmacy* 2015;21(10):925-936. (published)

Herndon CM, Hammer MJ, Schimmelpfennig JK, Craig DS. Awareness and implementation of recommendations made by the Strategic Planning Summit for Pain and Palliative Care Pharmacy in PGY-1 pharmacy residency programs. *Currents in Pharmacy Teaching and Learning* 2015;7(5):614-620. (published)

Herndon CM, Zoberi K, Gardner BJ. Common questions on chronic low back pain. *American Family Physician* 2015;91(10): 708-714. (published)

Kerr JL. Pharmacist Reaching Out in Diabetes: Optimizing Insulin Therapy Through Patient Engagement and Management. *Plainsboro, NJ. Pharmacy Times.* InBook. April 2016;105-116. (published)

Chen J, McNew B, **Lubsch L.** Nebulized gentamicin as an alternative to nebulized tobramycin for tracheitis in pediatric patients. *J Pediatr Pharmacol Ther* 2016. (in press)

Poirier T, Devraj R, Blankson F, Xin H. Interprofessional Online Global Health Course. *Am J Pharm Educ.* (In-press)

Sheley J, Wilman P, Podlasek J, **Bergman S.** Selection and Timing of Pharmacologic Therapy in Community-Acquired Bacterial Meningitis. *Pharmacy & Therapeutics* (in press)

Wilhelm M. Up-Close and Personal: The Pharmacist's Role in Guiding Patients Using Contact Lens Care Products. *Pharmacy Times.* 2015;81(8):79-88. (published)

Wooley AC, Brooks AD, Stacy ZA. Effect of a clinical pharmacist-managed service on blood pressure in an underserved population with resistant hypertension. Published online before print January 10, 2016, doi: 10.1177/8755122515624221 *Journal of Pharmacy Technology* January 10, 2016 8755122515624221. (published)

Peer-reviewed Books

Liu M, **Butler LM.** Patient Communication for Pharmacy: A Case-Study Approach on Theory and Practice Textbook. 1st ed. Massachusetts: Jones and Bartlett Learning. December 2015 (published)

Herndon CM, Arnstein P, Darnall B, Hartrick C, **Hecht K,** Maleki J, Manwarren R, Miaskowski C, Lyons M, Sehgal N, eds. Principles of Analgesic Use in the Treatment of Acute Pain and Cancer Pain. 7th ed. Chicago, IL: American Pain Society Press. (in press)

Peer-reviewed Book Chapters

Gable KN. Personality Disorders and Eating Disorders. In: Haight RJ, et al. *CPNP Psychiatric Pharmacotherapy Review Course.* 2016-2017 ed. Lincoln (NE): College of Psychiatric and Neurologic Pharmacists; 2016. (published)

Gable KN. Developing a First-Line Attention-Deficit/Hyperactivity (ADHD) Treatment Plan: A Case of Stimulant or No Stimulant?, In: Chavez B, Grady SE, McGuire JM, Nelson LA, editors. *Psychiatric Pharmacotherapy Case Series.* Lincoln (NE): College of Psychiatric and Neurologic Pharmacists; 215. 13p. Available from: <http://cpnp.org/ed/case/2015/adhd-1>. (published)

Gable KN. Patient Communication for Pharmacy Professionals: A Case-Study Approach Focusing on Theory and Practice. Chapter 4: Motivational Interviewing. Jones, Bartlett Learning, Massachusetts. December 2015. (published)

Hecht KA, Liewer SE. Malignant Lymphomas. In: Chisolms-Burns MA, Schwinghammer TL, Wells BG, et al, eds. *Pharmacotherapy: Principles and Practice.* 4th ed. New York: McGraw-Hill, 2015. p.1433-1445. (published)

Herndon CM. Medical Marijuana (eChapter). In: Dipiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey LM, eds. *Pharmacotherapy: A Pathophysiologic Approach.* 10th ed. New York, NY:McGraw-Hill; (in press)

Trombetta DR, **Herndon CM.** Osteoarthritis. In: Alldredge BK, Corelli RL, Ernst ME, Guguelmo BJ, Jacobson PA, Kradjan WA, and Williams BR, eds. *Koda-Kimble and Young's Applied Therapeutics: The Clinical Use of Drugs.* 10th ed. Baltimore, MD: Lippincott, Williams, and Wilkins (in press)

Herndon CM, Strickland J, Ray J. Pain Management. In: DiPiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey LM, eds. *Pharmacotherapy: A Pathophysiologic Approach.* 10th ed. New York, NY:McGraw-Hill; (in press)

Luer MS, Penzak SR. Pharmacokinetic Properties. In *Applied Clinical Pharmacokinetics and Pharmacodynamics of Psychopharmacological Agents*, 1st Edition. Springer International Publishing Switzerland 2016; 3-27 (chapter 1). (published)

Non-Profit
Organization
US Postage
PAID
Permit No. 4678
St Louis MO

Box 2000
Edwardsville, IL 62026-2000
618.650.5150
siue.edu/pharmacy

Graduates Boast Top Board Pass Rates

Graduates of the School of Pharmacy's class of 2015 exceeded both state and national averages, boasting a first-attempt board pass rate of 97.26 percent on the North American Pharmacist Licensure Exam (NAPLEX). The graduates' combined score was the highest board pass rate of any program in Illinois or Missouri.

According to data from the National Association of Boards of Pharmacy, when all seven graduating classes from SIUE (2009-2015) are considered together, SIUE graduates rank number one among the eight programs in Illinois and Missouri with a 96.6 percent first-attempt board pass rate.

"The annual success on the NAPLEX exam by graduates doesn't just happen," said Dr. Mark Luer, associate dean and professor of pharmacy practice. "It is the culmination of talented students, faculty and staff coming together with the common goal of preparing graduates to promote the health and well-being of their communities."

