More than 25,000 pharmacy professionals attended the 2017 ASHP Midyear Clinical Meeting in Orlando, Florida, and Presbyterian College School of Pharmacy was well represented at the meeting. Students presented research posters, participated in the residency showcase, and attended the dynamic student programming offered. Faculty in attendance presented live sessions and networked at the state affiliate dinner. Alumni residents were also well represented in poster sessions. Additionally, the PCSP chapter of Student Societies of Health-System Pharmacy (SSHP) received the Outstanding Professional Development Project Award and was recognized with a winner’s ribbon and announcement during the Pharmacy Student Forum Awards Ceremony.

STUDENT AND ALUMNI POSTERS

Chase Board, Erika Tillery
Potential risk of hypersexuality in patients using cariprazine for schizoaffective disorder

Ashley Chase
Effect of anti-obesity agents in cardiovascular-related endpoints: A systematic literature review and network meta-analysis

Catherine Christaldi, Rebecca Howell
Inhibition of P-glycoprotein with Novel Agents in Colorectal Cancer Cells that Overexpress P-glycoprotein

Victoria Paradiso
Hypertonic enteral feeds as an adjunctive treatment for traumatic brain Injury

Melanie Routhieaux, Jessica Keels, Erika Tillery
Utilization of pharmacogenetic testing in patients with schizophrenia or bipolar disorder: A systematic review

Joshua Stamps
Weight and glycemic-related outcomes with anti-obesity agents in patients with prediabetes or type 2 diabetes: A meta-analysis of randomized controlled trials

PRESENTATIONS

Chris Farrell
Identifying Bacteria, Viruses, and Fungi by Their Genes: Infectious Diseases Diagnostic Testing

Nancy Goodbar and Chris Farrell
Addiction is in the Genes: How Pharmacogenetics Plays a Role in Opioid Addiction

Mary Douglass Smith
Networking Session: Precepting Skills
Staff Team Building Activity

Before classes started for the fall semester, faculty and staff participated in a team building activity that simulated a crime scene investigation. Teams traveled throughout the school to find clues, test blood samples, and decide on a suspect.

“I really enjoyed the CSI activity! I liked the way we were teamed up with people we don’t work with on a day-to-day basis because it gave us a chance to get to know them a little better. The exercise was fun and challenging! The team I was on took top honors which made it even better!” – Susi Carbonneau, Assistant Director of Experiential Education

Midyear Clinical Meeting, cont

RESIDENT/ALUMNI POSTERS

Paige Broccio
Evaluation of the impact of pre-operative multimodal analgesia on post-operative oral morphine equivalent requirements 24 hours post-operatively in patients undergoing elective spinal surgery

Jamie Hansen
Evaluation of medication-assisted treatment (MAT) prescribing in patients with opioid use disorder (OUD)

Zach Howard
Impact of transitioning to real-time reverse transcriptase-polymerase chain reaction (RT-PCR) influenza diagnostic testing in a community hospital emergency department

Emily Huneycutt
Increasing access to clinical pharmacy specialist (CPS) within patient-aligned care teams (PACT) by implementing a pharmacist lead population health service

Mallory Moore
Use of acid suppression therapy during clostridium difficile (CDI) in a tertiary academic medical center

Dylan Porter
Evaluating current catheterization lab unfractionated heparin (UFH) usage during percutaneous coronary intervention (PCI)

Jimmy Pruitt
Evaluating the Financial and Quality of Life Burden of Standard of Care Versus Oritavancin

Nicole Siciliano
Retrospective analysis of antimicrobial utilization in the neonatal intensive care unit
Dr. Serge Afeli, assistant professor of pharmacology, was inspired by an in-class activity that he created in the Spring 2016 semester to help students remember key concepts of his lectures. Throughout the semester, teams worked together to answer in-class activities including case studies, single-answer multiple choice questions, and drug brand name quizzes. At the end of the semester, the team with the most points received a trophy and extra credit points for participation. His student evaluations reflected the benefit of these activities in improving their knowledge of the subject matter, so Dr. Afeli started creating the Pharmacynary mobile application.

The current version of the app focuses on helping users memorize the top 300+ drugs sold in the U.S. These 300+ drugs have been divided into 8 therapeutic classes including:

- Cardiovascular drugs
- Pain medication
- Mental health disorders drugs
- Gastro-intestinal drugs
- Antidiabetics
- Infectious diseases drugs
- Respiratory drugs
- Hormones & others

The user is prompted to find the correct drug brand name based on the drug class and drug generic name provided. To facilitate the process, 16 letters are randomly disposed and the user must find the correct drug brand name by using some or all of the letters provided. Unlike most games, Pharmacynary does not use multiple choice options but relies on the ability of the user to know the correct answer and spelling of the drug name, removing any guess work by the user.

This app can be very helpful for students preparing for the NAPLEX exam, in-class drug name quizzes, the pharmacy technician certification exam, pharmacy board recertification, and more. As of today, there are more than 2000 users worldwide.

Dr. Afeli reports that the biggest obstacles in creating the app were related to time commitment and his limited expertise in app development. In order to reach more users, the app had to be developed for both Android and Apple devices, which are two totally different platforms. He had to rely on outside expertise which was often very expensive.

Dr. Afeli’s future plans for the app are to expand the functionality so that it covers all aspects of pharmacy education including, but not limited to, pathophysiology, pharmacology, therapeutics, drug adverse effects, drug-drug interactions, pharmaceutics, pharmacokinetics, and more. However, before undertaking such massive development, he plans on putting together a team of pharmacy education experts that will help him raise capital through institutional grants or private investors or donors and assist in the app development process.

Currently, the Pharmacynary app is available free of charge to all users on Apple and Android devices.
The first “Mr. PCSP” event was held in January and sponsored by APhA-ASP. Five male contestants competed in the fundraiser that directly benefited the patient care projects held in Clinton, Laurens, and Greenwood communities.

The contestants began with a choreographed group dance, modeled “Casual Wear” and “White Coat Wear,” and showed off musical and comedic abilities in the talent portion. Finally, contestants answered questions before the judges and audience. The questions were randomly chosen and included, “What is the most important thing you learned in pharmacy school?” and “If you could fix one problem in pharmacy, what would it be and why?”

Mr. Photogenic was awarded to Matt Martin, P2, and Mr. PCSP was awarded to Anderson Isaac, P3.

As the judges completed their final tallies, the contestants had fun in a competition to count 180 tablets.

Each year, Student National Pharmaceutical Association (SNPhA) hosts the “Taste of Culture” event to provide culture awareness and promote diversity to the faculty, staff, and students of the school. Participants brought food from Wisconsin, the South Carolina Pee Dee region, Germany, Peru, Poland, India, Philippines, Italy, Puerto Rico, Japan, American Southwest, Greece, Pennsylvania Dutch Country, South Carolina, and the Appalachia region. Native garments and artifacts were also on display.
FACULTY SCHOLARSHIP


Fincham, J.  https://bottomlineinc.com/health/medications/time-to-take-your-digital-pill


Meade C, Clements J.  Ivabradine use in systolic heart failure.  (Pending publication date to Journal of American Association of Physician Assistants)

Shelton K, Clements J.  Naloxegol: Management of opioid-induced constipation.  (Pending publication date to Journal of American Association of Physician Assistants)


Dr. Jennifer N. Clements, PharmD, BCPS, CDE has been selected to the Fellowship in the American College of Clinical Pharmacy (FCCP). This distinction recognizes excellence in the practice and science of clinical pharmacy. Fellowship status is awarded to individuals who have made sustained contributions to the College and who have demonstrated exceptional performance in clinical pharmacy practice and/or research. Elected Fellows are inducted during the College’s Annual Meeting Awards Ceremony and recognized at the Annual Fellows Dinner. Fellows may be recognized by the initials “FCCP” as a part of their title.

Dr. Clements serves as the course coordinator for the Clinical Assessment for Pharmacy Students (CAPS) that incorporates clinical assessment skills, pharmaceutical calculations, and problem-based learning. She also coordinates the musculoskeletal medication therapy management course as well as the postgraduate preparatory elective to prepare P3 students for the residency and postgraduate training process. She was awarded Teacher of the Year in 2014. Dr. Clements will serve as the president of the South Carolina Society of Health-System Pharmacists beginning in March 2018.

“It was an honor to be nominated by several individuals for Fellowship in the American College of Clinical Pharmacy. It is a humbling experience to be recognized for professional achievements, along with many other individuals in clinical pharmacy. For me, Fellowship allowed me to reflect on my accomplishments since completion of residency training, but also think about my future goals in the area of clinical pharmacy.”

-- Dr. Jennifer Clements
University of South Carolina Upstate nursing students, Edward Via College of Osteopathic Medicine students, and Presbyterian College pharmacy students partnered for a simulation of how the three professions would come together to treat a patient in a hospital setting.

The event was held at simulated hospital rooms at the Mary Black School of Nursing at USC Upstate. Students were able to experience patient situations that they might not encounter on clinical rotations—such as coding and drastic drops in heart rate. The nursing, medical, and pharmacy students had to work quickly and effectively to treat the “patient” and lean on each other’s expertise to save him.

“They can’t do things on their own. They need help and collaboration from the other professions to really take care of their patients,” Dr. Kate Moore, Director of Interprofessional Education at PCSP, said. “A lot of times in the real world, there will be some anxiety when you’re doing this communication. ‘Do I need to ask this, who should I ask?’ This should help alleviate that kind of anxiety by giving them a safe space to do this.”

FHC pharmacist gets certification
From the Times & Democrat, Orangeburg, SC

Dr. Natalie Nelson, assistant director of pharmacy at the Family Health Centers, Inc., and pharmacist-in-charge for the Norfield satellite office in Neeses has passed the Ambulatory Care Specialty Certification exam and is now a Board Certified Ambulatory Care Pharmacist through the Board of Pharmacy Specialties. Ambulatory care is a pharmacy specialty that focuses on addressing the medication needs of patients in an outpatient setting.

“I am honored to have attained the ambulatory care board certification which recognizes one’s training and competence while strengthening the trust of patients and peers as a practicing ambulatory care pharmacist,” Nelson said.

Nelson is a native of Greeleyville and currently resides in Columbia. Nelson received her doctor of pharmacy from Presbyterian College School of Pharmacy where she graduated as part of their inaugural class. She then spent a year in Orlando, Florida, where she completed a post-graduate year one (PGY1) pharmacy residency program at the Orlando VA Medical Center. She has been employed with the Family Health Centers at The Norfield Medical Center for over two years and hopes to use her clinical experience and recent board certification to further implement and perform clinical pharmacy services to aid in chronic disease management. In addition, Nelson also serves as clinical coordinator for the newly implemented pharmacist-driven hypertension coaching program at Family Health Centers Inc.
Faculty Spotlight:

Katie Ellis  
*Assistant Professor of Pharmacy Practice*  
*Palmetto Health Children’s Hospital, Columbia, SC*

Dr. Ellis was born and raised in Raleigh, NC, and graduated from South Carolina College of Pharmacy (USC Campus) in 2012. She completed a PGY1 pharmacy practice residency at Carolinas Medical Center in Charlotte, NC, followed by a PGY2 pediatric pharmacy residency at Texas Tech Health Sciences Center School of Pharmacy in Amarillo, TX. Following residency, Dr. Ellis worked for three years as a clinical specialist in general pediatrics and neonatal/infant intensive care at the Children’s Hospital of Philadelphia. Dr. Ellis’ interests within pediatrics include medication safety, sedation/withdrawal management, and antimicrobial stewardship. Outside of pharmacy, Dr. Ellis enjoys cheering on the Gamecocks, cooking, and traveling.

1. **Why did you decide to come teach at PCSP?**

   My passion for academia started as a pharmacy student during a rotation in the neonatal intensive care unit. My preceptor pushed me outside of my comfort zone and put a great deal of trust in me to take full ownership of patient care. Since then, it has been a goal of mine to be a positive role model for students and really show them how much a pharmacist can contribute to patient outcomes. During residency, I learned valuable skills didactic teaching and precepting while building on my clinical pediatric knowledge base. After residency, I gained three years of valuable experience as a clinical specialist in general pediatrics and neonatal/infant intensive care but truly missed the opportunity to have a positive impact on students on a daily basis. I admire the core values at PCSP, especially the focus on helping the community as a whole and working together as a team. I appreciate the high standards we set for our students, and I believe a smaller class size allows for a more individualized teaching approach. I am honored to be a member of the PCSP team with such wonderful colleagues and students!

2. **What are the top knowledge and skills that you want to teach your students?**

   I want to teach students how to approach patient care in a proactive manner, how to expand their independent critical thinking skills, how to be a patient advocate, and how to become an influential member of a multidisciplinary team.

3. **What are your favorite parts of teaching and mentoring students?**

   It is very rewarding to observe students master new skills and develop self-confidence. I enjoy the challenge of adapting to each student’s unique learning style and learning something new every day in the process!

4. **What advice do you give to current students?**

   Don’t be afraid to ask for help, get involved in local and national organizations, and be willing to dig deeper/go the extra mile. It will pay off!
Craig Evans

Originally from Decatur, Illinois, Craig earned his bachelor of science degree from Southern Illinois University. He taught high school science for five years before deciding to change careers to pharmacy. He lives in Anderson, SC, with his wife and two sons. Craig has worked as an intern at CVS/Pharmacy for seven years and is interested in a career in community pharmacy. While at PCSP, Craig has served as the class president for both his P1 and P2 years. He says that his main hobby is studying, but he does spend some free time watching Disney movies and settling domestic disputes over whose turn it is on the iPad.

1. Why did you decide to attend Presbyterian College School of Pharmacy?

Stephen Leonard (who is now a P4) and I were friends before I came to PCSP and he always spoke highly of the school, which piqued my interest. When I came for my tour I knew this place had everything I was looking for: faculty that are both knowledgeable & caring, a faith-based foundation, and a reasonable distance for my commute.

2. Tell me a lasting memory you have made at PCSP.

I'll never forget the sense of accomplishment I felt when completing my first semester at PCSP and having the realization that I can actually do this!

3. What has been your favorite course and why?

Pharmacokinetics - I've always enjoyed math (I'm a nerd) and really enjoyed discovering how calculations can be used to effectively adjust a patient's dosage regimen. Plus Dr. Fox is an awesome professor!

“One thing I will always remember about Craig is a meeting we had after he won the election to serve as class president. It was the beginning of my first year as Assistant Dean for Professional and Student Affairs, and I was trying to figure out how to be good at my new job. I desired to mentor, teach, advise, and grow our students in a different capacity. But I realized I knew very little about the PSGA process and Craig's responsibilities, so it was probably a pretty unproductive meeting for him. I was very candid with him regarding this, and we both agreed we would learn through this together. He helped me just as much, if not more, than I helped him. He is a true and strong leader, an excellent communicator, and is willing to serve the school and the student body selflessly. He is honest and provides genuine and helpful feedback when asked.”

-- Dr. Nancy Goodbar
Assistant Dean for Professional and Student Affairs
Alumni Spotlight:

Josh Johnson, PharmD
Director of Pharmacy
Antibiotic Stewardship Coordinator
AnMed Health Rehabilitation Hospital, Anderson, SC

Josh graduated from Presbyterian College School of Pharmacy in 2016. Prior to pharmacy school, he earned a sociology degree from Presbyterian College and played on the basketball team for 5 years. He is currently the Director of Pharmacy at AnMed Health Rehabilitation Hospital, a 60-bed acute care facility in Anderson, SC. He also serves as the Antibiotic Stewardship Coordinator since receiving his SIDP Antimicrobial Stewardship Certificate in November. Josh lives in Easley, SC, with his wife Sheldon (also a PC graduate), and two children, JJ and Walker. He is also pursuing an MBA with healthcare administration focus from Southern Wesleyan University.

1. How did Presbyterian College School of Pharmacy prepare you for your current career?

The simple answer would be simply, “it just did.” Being able to serve in different leadership roles on student committees gave me opportunities to better understand my strengths and weaknesses. PCSP provides the education, resources, and opportunities for students to develop themselves into successful pharmacists. Without work ethic, high moral standards, perseverance, humility, and a competitive nature it is extremely difficult to be successful at PCSP. Which is exactly how it should be, because pharmacists with those characteristics are the ones being hired in the competitive job market.

2. What advice would you give to a current P1 student?

For all pharmacy students no matter what year they are, I cannot stress enough how beneficial humility will be for the betterment of the education and career. Second, and almost as important, decide early on where you want to take your career. Then let that be what drives your decisions as a student. This is difficult for our generation but will prove to be beneficial going into P3 and P4 years.

3. What do you think pharmacy education will look like in 10 years?

I see more of the learning occurring in healthcare setting instead of primarily in the classroom. Students struggle to apply what they have learned in the classroom to actual patients. I believe this issue for students from PCSP has been created by students. As a result of student wanting to fight professors for every point on every question, they have forced professors to make learning situations in the classroom very straight forward and black and white. Unfortunately, the practice of pharmacy is almost never straight forward nor black and white. With the limited knowledge that I have on formal education at the graduate level, I hope to see students better at treating patients than they are at taking tests.
LAURENS SQUEALIN’ ON THE SQUARE

Squealin’ on the Square is presented by the non-profit, Main Street Laurens, as a way of raising funds to assist in their efforts to revitalize the Historic Downtown District. PCSP students participated by hosting a free health screening, including blood pressure and blood sugar checks.

PCSP Vision: Our vision is to be a national leader in pharmacy education, scholarship, and service. Our faculty and graduates will be recognized as servant leaders in their communities.

October – American Pharmacists’ Month

PCSP celebrated October as American Pharmacists’ Month with a red carpet, breakfast and a photo booth for faculty, staff and students to enjoy!
Following the fall semester exams, faculty and staff participated in a Spirit Week with themed dress up days each day until the holiday break.

**Perfectly Plaid Day**

**Superheroes vs Villains**

**Decade Dress Day**

**Blue (Hose) Christmas**

**Athletes vs Mathletes**

**Fun & Festive**

**Twin Day**