



**M**  
MARSHALL  
STEPHEN J.  
KOPP HALL



# 2019 ANNUAL REPORT



SCHOOL OF PHARMACY



MARSHALL UNIVERSITY  
SCHOOL OF PHARMACY

# WHITE COAT *Sponsorship*

**Your gift. Their promise. A prescription for a healthier tomorrow.**

At Marshall University School of Pharmacy, we are committed to upholding the traditions and esteem of our profession. The first step in our students' journeys begin each August with the annual White Coat Ceremony. This important tradition symbolizes the introduction to pharmacy education and the transition into the professional program. Students end the ceremony by reciting the Oath of the Pharmacist, affirming their dedication to serve patients, the community, and the profession.

The white coat is emblematic, serving as a reminder of the confidence and trust placed in pharmacists. Students are encouraged to wear their white coats when working in the lab, attending community events, and on rotations. It is customary for MUSOP students to be presented a white coat by the dean, department chairs, or faculty members.

We invite you to join us in supporting our students as they embark on this new journey. **Your gift of \$100 will make a lasting impact on our future pharmacists.** As a sponsor, your name will be listed in the event program and on our website. Additionally, you will have the option to write a note to an incoming student including your name and an encouraging message.

**Please make your gift no later than August 1 to ensure your student(s) receive their white coat and note in time for the ceremony.**

To learn more about supporting the School of Pharmacy, please contact **Megan Russell**, Director of Recruitment and Development, at **304-696-6009** or **jude21@marshall.edu**

Learn more at [www.marshall.edu/pharmacy](http://www.marshall.edu/pharmacy)

**SERVICE, PATIENT ADVOCACY, AND COMMITMENT**

Give online at [www.marshall.edu/pharmacy](http://www.marshall.edu/pharmacy)

### MISSION STATEMENT

The mission of the Marshall University School of Pharmacy (MUSOP) is to advance direct pharmacy patient care by developing innovative practitioners, researchers, and educators. MUSOP conducts research and provides services directed toward the goal of improving the health and well-being of West Virginians, veterans, and residents of the tri-state region and the nation.

### VISION STATEMENT

We are...Marshall!

We are... leaders in innovation, education, practice, and research!

We are... the future of Pharmacy Education!

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*Marshall University School of Pharmacy is accredited by the Accreditation Council for Pharmacy Education.*

## A MESSAGE FROM DEAN BRAZEAU

Greetings from the Marshall University School of Pharmacy. I am honored to have led the school through a year full of growth and change, as well as celebrations and success. We are well positioned to continue our pursuit of excellence into the coming years, but it is important that we take this opportunity to recognize those individuals and events that have gotten us to this point.

In this report, you will learn about our innovative faculty, dedicated staff, valued donors, and committed students. You will also be introduced to our new home, Stephen J. Kopp Hall; and our new student housing, The Landing. Most importantly; however, I hope that you get a real sense of the community we are building. We are dedicated to our core values of compassion, collaboration, creativity, competition, continuous improvement, competency, and character. We call this community, the Pharmily.



At the heart of our Pharmily is a deeply felt appreciation. In August 2019, we kicked off our “Year of Gratitude” at our employee retreat, featuring two keynote speakers addressing workplace appreciation. Throughout the year, we will continue to show appreciation for a different group each month with relevant readings and quotes, service activities, and celebrations. We see this as a tangible expression of the gratitude we feel for all who contribute to our growth and success.

I am particularly proud of the impact that everyone at the school has throughout the tri-state region; from student-led fundraising initiatives and health fairs, to individual faculty and staff commitments, and school sponsored events and drives. The research that our faculty members are working on will contribute to improved patient outcomes, and the prescription drug abuse education that our students and faculty provide to the community has had a direct and positive effect on our region.

I hope you enjoy learning more about the activities of the school over the past year. Thank you for your support along the way, and we look forward to continuing to grow with you.

Sincerely,

A handwritten signature in black ink that reads "Gayle A. Brazeau". The signature is written in a cursive style.

Gayle A. Brazeau, Ph. D.

Dean

### DEAN'S COUNCIL LENDS GUIDANCE

*We are pleased to introduce the inaugural members of our Dean's Advisory Council (DAC): **Lynne Fruth, Casey Ross, Fran D'Egidio, Sam Kapourales, Dennis Lewis and Courtney Adkins**. The DAC will meet twice a year in person and twice a year via teleconference. They will offer an independent, external business and professional perspective in providing advice, guidance and review to the Dean and leadership of the School.*



## SCHOOL OF PHARMACY

- ✓ Lowest pharmacy school tuition and fees in WV
- ✓ Top 10 lowest out-of-state tuition & fees
- ✓ 12:1 Student to faculty ratio
- ✓ Active learning curriculum/ flipped classrooms
- ✓ State-of-the art simulation areas

# Marshall School of Pharmacy moves into Kopp Hall



In September 2019, Marshall University School of Pharmacy moved into a new 49,560-square-foot, three-story building on the University's health science campus along Hal Greer Boulevard in Huntington, West Virginia. Stephen J. Kopp Hall is a tribute to the University's 36<sup>th</sup> President who was a pivotal force in the creation of Marshall's School of Pharmacy.

The new location provides instructional, research, communal and administrative space close to the Joan C. Edwards School of Medicine, Marshall Health and Cabell Huntington Hospital.



The new Kopp Hall is just steps away from The Landing, a new graduate housing complex along 14<sup>th</sup> Street that includes 200 studio and two-bedroom apartments available to students, residents and fellows, faculty, staff and overnight guests. The Landing is also adjacent to the Erma Ora Byrd Clinical and Forensic Science Centers.

# School of Pharmacy provides new degrees, specialty options

The School of Pharmacy's *Department of Pharmaceutical Science and Research* now offers a **master's degree in pharmaceutical sciences**. Both M.S. (thesis) and M.A. (non-thesis) options are available. The M.A. option combines with the Pharm.D. program resulting in a dual degree: Pharm.D./ M.A. in pharmaceutical sciences. This program provides training to prepare students for careers in research and the pharmaceutical / biotechnology industry. There are five students in the initial cohort.

Two new certificate programs were also added to the Pharm.D. program

A **substance use disorder certificate program** for health care post-graduate trainees and students emphasizes interdisciplinary collaboration. It equips students with the knowledge and skills they need to provide optimal care for patients with opioid use disorder. Two students began this program in the fall of 2019.

A **research track certificate program** provides in-depth training and experience in scientific, clinical or educational research. In the fall of 2019, two students entered this new specialized track, which prepares students for graduate research programs, pharmacy residencies or the pharmaceutical industry.



# STUDENT *NEWS*

Seventeen students representing the top 20 percent of their class joined Epsilon Xi, Marshall's chapter of the **Rho Chi national academic honor society for pharmacy.**

Students created a board game that educates elementary-aged students about medication safety. **Prescription SAFETY Playland**, a game similar to Candyland, has been distributed to school administrators in 18 West Virginia counties.

Students and residents took part in the **WV Society of Health System Pharmacists Residency Showcase.**

Fourth-year students Morgan Bridwell and Emily Davis won the **2019 Clinical Skills Competition** sponsored by the Marshall University Student Society of Health-System Pharmacists.

Marshall's team won the **OTC Challenge** at the 112<sup>th</sup> West Virginia Pharmacists Association Conference in October.

Second and third-year students now participate in a one-hour **re-orientation program**. A **wellness program** is available to students, too.



*Professor Kim Broedel-Zaugg, R. Ph., (left) and students Daniele Levin, Bryanna Roar and Christopher Short (right) presented Playland to Cabell County administrators in April 2019. Caleigh Carter (second from right) is a senior fine arts student who provided graphic art for this project.*

# STUDENT *SPOTLIGHT*

Second-year student **RICKY MOORE** of Louisa, Kentucky, is a single dad who plans to stay local and serve as a community pharmacist when he graduates in 2022. Local pharmacist Fran D'Egidio and Dean Brazeau presented Ricky Moore with a **Certificate of Skills Excellence** at the 2019 awards ceremony in May.



## 2019 STUDENT STATS

- 249 enrolled
- 54% female / 46% male
- 56% in-state
- 20% minorities
- 94% on-time graduation
- 88% graduate job placement rate

# FACULTY & STAFF *NEWS*



*Craig Kimble*

Associate Professor **Craig Kimble**, M.B.A., Pharm.D., received the 2019 Bowl of Hygeia Award, the highest state-level honor for a pharmacist who has demonstrated outstanding civic leadership. Kimble also received recognition from the National Community Pharmacist and Ohio Pharmacist associations.



*Tyler Clay*

Assistant Professor **Tyler Clay**, Pharm.D., is the 2019 recipient of the Jim Hauptert Award. The memorial recognition is presented by St. Mary's Medical Center to a pharmacist who routinely demonstrates a passion for teaching, mentorship and education.

For the second year in a row, Post-Doctorate Teaching Fellow **Ashley Perkins-Shogren**, Pharm.D., received an outstanding leadership seminar award from the Hugh O'Brien Youth Leadership organization.



*Cynthia Jones (left)  
Kim Broedel-Zaugg (right)*

Assistant Professor **Cynthia Jones**, Pharm.D., was selected as the Marshall University 2019 Woman of Color Recipient for faculty/staff/administration.

Associate Dean **Eric Blough**, Ph.D., was a finalist for the Faculty Merit Foundation of West Virginia 2018 Professor of the Year award.

Director of Academic Information Services **Holly Dunmore**, M.S., Assistant Dean **Terri Moran**, M.S., and Associate Professor **Brittany Riley**, Pharm.D., participated in the 2019 cohort of John Marshall Leadership Fellows. Assistant Professor **Omar Attarabeen**, Ph.D., and Executive Assistant to the Dean **Karen Doss**, M.A., were selected to participate in the 2020 cohort.

Director of Recruitment and Development **Megan Russell**, M.A., was voted President-elect of the WV Association of Collegiate Registrars and Admissions Officers (WVACRAO) for 2020. She served as webmaster and archivist during 2019. Recruitment Specialist **Brittany Thompson** was appointed to the Government Relations Committee.

Two faculty received appointments to committees of the American Society of Health-System Pharmacists (ASHP). **Brittany Riley**, Pharm.D., will serve as a member of the ASHP's Council on Pharmacy Practice, and **Chelsea Gresham-Dolby**, Pharm.D., will serve as new practitioner of the Council on Education and Workforce Development. Both appointments are for the 2019-2020 term.



# NEW *FACULTY & STAFF*



**Boyd R. Rorabaugh, Ph.D.,**  
*Professor & Chair of the  
Department of Pharmaceutical  
Sciences and Research*



**Melinda E. Varney, Ph.D.,**  
*Assistant Professor*



**Mohammad Ahsanul Akbar,**  
*M.Pharm., Ph.D., Instructor*

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**Meg Cyrus, B.S.,** *Administrative Assistant for Human Resources*  
**Pamela Haddox,** *DUR Office Administrator*  
**David Kalinoski,** *Information Technology Consultant, Senior*  
**Karrie Lykins, B.S.,** *Administrative Assistant for Purchasing*  
**Michele Sigler, M.A.,** *Director of Progressions*  
**Brittany Thompson, B.A.,** *Recruitment Specialist*



## Marshall Pharmily says goodbye to Ms. Becky

Administrative Secretary Senior Rebecca Huff celebrated her retirement with faculty and staff at a tea party in December 2019. Since 2013, Becky was the cheerful face greeting visitors to Marshall's School of Pharmacy. She also provided administrative support to faculty and staff. Becky graduated from Marshall Community College with an associate degree in banking and finance and previously worked in the banking and medical industries.

# RESEARCH & GRANTS

Associate Dean Eric Blough, Ph.D., received a **PATENT for an orally-taken zinc oxide nanoparticle to prevent muscular atrophy**. The patent is for compositions and methods for treating striated muscle injury, treating striated muscle atrophy and/or for promoting striated muscle growth. Department of Pharmaceutical Sciences and Research **faculty published approximately 20 peer reviewed MANUSCRIPTS in scientific journals** such as *Frontiers in Immunology*, *ACS Chemical*, *Neuroscience* and *Nanotechnology*.

Assistant Professor Jeremy McAleer, Ph.D., was recognized for having **one of the top cited papers of 2018-2019** in the *European Journal of Immunology*. His paper, titled "Contributions of the Intestinal Microbiome in Lung Immunity," had among the highest count of citations for the publication.

Department members received **EXTERNAL GRANTS totaling more than \$637,000** from the National Institutes of Health, West Virginia INBRE (IDeA Network of Biomedical Research Excellence), West Virginia Clinical and Translational Science Institute, NASA West Virginia Space Grant Consortium and NASA West Virginia EPSCoR (Experimental Program to Stimulate Competitive Research). This funding supports research projects involving cancer, inflammation, the cardiovascular

consequences of prenatal exposure to methamphetamine, the impact of space travel on drug metabolism and the development of non-opioid drug targets for pain management.

Funding was also received to develop opportunities for pharmacy students to develop advanced pharmacy practice experiences in rural areas of West Virginia.

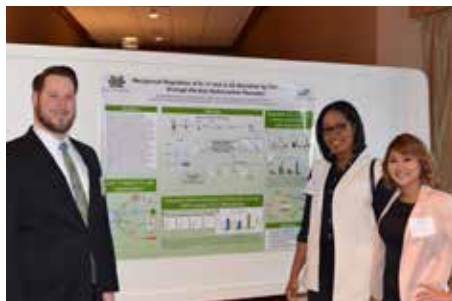


*Assistant professor Cynthia Jones, Ph.D. is testing the dissolution profile for a novel solid dosage form on the Sotax AT XTend Dissolution Tester.*



*Professor Boyd Rorabaugh, Ph.D., prepares a sample for structural analysis using nuclear magnetic resonance spectroscopy.*

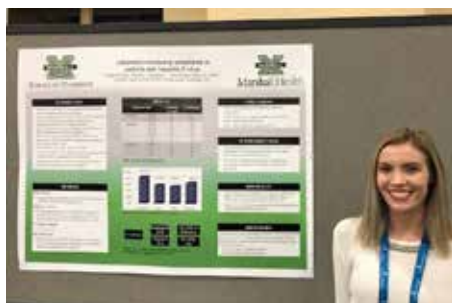
Students and alumni presented their research endeavors at multiple venues including Marshall University's 2019 Health Science Research Day and the West Virginia Society of Health System Pharmacists Meeting.



*Zachary Arbogast, Alisha N. Milton and Minh Tram at a West Virginia Society of Health System Pharmacists Meeting in 2019.*



*Brian Heng, Sheshadri Hoque and Dr. Casey Fitzpatrick at Marshall University's 2019 Health Science Research Day.*



*Haleigh Hogue at the American Society of Health-System Pharmacists 2019 Midyear Clinical Meeting and Exhibition.*

## Annual Pharmacy Celebrations



At the spring **PINNING & AWARDS CEREMONY**, outstanding students, faculty and preceptors are recognized. Local CVS pharmacist Dr. Aaron Stone joined Dean Brazeau in presenting third-year students with their pharmacy pins, which recognize their transition to advanced pharmacy practice experience.

### 79 doctor of pharmacy degrees



were awarded at the 2019 **GRADUATION & INVESTITURE** held at the *Keith-Albee Performing Arts Center*. Seven of the new pharmacists additionally received their master's degrees in business administration. Dr. David D. Allen, dean of the University of Mississippi School of Pharmacy, was the keynote speaker.

### 54 incoming students



were welcomed at our eighth annual **WHITE COAT CEREMONY** at the Brad D. Smith Foundation Hall in Huntington. The class of 2023 includes 35 women and 19 men ranging in age from 18-61. There are 33 in-state students and 21 from outside WV. Twenty-nine are Marshall undergraduate alumni.

# Community service is a cornerstone of the School of Pharmacy's commitment to give back

Marshall's Student Society of Health-System Pharmacists hosted a gala in January that raised **\$1,300 for the Huntington City Mission**. Faculty, staff and students contributed to a **Cold Weather Gear Donation Drive** in the fall for Huntington's homeless population.

Other student service projects included working with Walgreens to promote **Red Nose Day** in April, volunteering to collect and remove nearly 50 bags of trash from the street in the Fairfield neighborhood, assisting at **Cabell Huntington Hospital's annual Senior Fest** and participating in multiple **5K fundraisers** that benefited the **American Diabetes Association**, the **Juvenile Diabetes Research Foundation** and **Hospice of Huntington**. Additionally, students raised more than \$3,000 for the **American Foundation for Suicide Prevention**.

Over the summer, clinical assistant professor Tyler Clay, Pharm.D., led a team of seven students on a **medical mission trip to Honduras**. The team assisted three communities with medical triage and medication dispensing.



Penny Wars, a competitive fundraiser among classes, faculty and staff, raised **\$700 to benefit the A.D. Lewis Community Center** in Huntington. Proceeds were used to purchase school supplies and Halloween costumes for school-age youth at the community center.

Clinical Assistant Professor Tiffany Davis, Pharm.D., coordinated a **Teal Pumpkin Night** during Huntington Parks and Recreation's annual Fantasy Maze at Ritter Park. Kids with food allergies were able to request a teal bag as they entered the maze, so volunteers knew to provide those kids with alternative treats.



## A MESSAGE FROM THE DIRECTOR OF RECRUITMENT AND DEVELOPMENT



Greetings! Marshall University School of Pharmacy (MUSOP) experienced many changes in 2019, most importantly finding our new home at Stephen J. Kopp Hall in the middle of downtown Huntington.

Our new building, as well as new graduate housing, have made an immediate impact on the Marshall University Health Sciences campus and Fairfield community. Faculty, staff, and students participated in several community activities and projects in the latter part of 2019 to assist our new neighbors in Fairfield, especially the A.D. Lewis Center.

The tradition of giving back has been a cornerstone of MUSOP's mission from day one and extends past our immediate "pharmily" to include our donors and friends. In 2019, approximately \$190,000 was awarded to current students to help them pursue their goals of becoming pharmacists. It is through your generosity that they are able to decrease their financial burden upon graduation.

As we move into the next decade of pharmacy education at MUSOP, we look to expand our practice of giving and outreach, including the launch of new programs such as "Sponsor a White Coat" and "Student Success Fund" to support the next generation of student pharmacists. We are also excited to graduate our fifth class and plan for our first MUSOP alumni reunion.

We hope that you will continue to engage with us through our social media channels where all the most up-to-date information about MUSOP can be found.

We look forward to seeing more of you in 2020!

Sincerely,

A handwritten signature in black ink that reads "Megan Jude Russell". The signature is written in a cursive, flowing style.

Megan Jude Russell

Director of Recruitment and Development

### REUNION PLANS UNDERWAY FOR FIRST FIVE GRADUATING CLASSES

Marshall School of Pharmacy's first five graduating classes will gather this fall for the SOP's first reunion. Stay tuned for the date!

# 2019-2020 SCHOLARSHIPS

- *Advantage Toyota Scholarship* – Zachary McCallister
- *CVS Bilingual Scholarship* – Melba Vargas
- *CVS Pharmacy Scholarship* – Daidee Figueiral & Danh Phan
- *Early Decision Scholarships* – Andrew Billups, Alexandra Brown, Sierra Cleland, Becky Cook, Samantha Dinis, Bethany Evans, William Foster, Sierra Hicks, Jillian Holgate, Melanie Howard, Michael Jeffrey, Sarah Nickel, Caroline Putnam, Kailey Spainhower, Tanner Sweeney, Cheyenne Weakley
- *Fruth Pharmacy Scholarship for the School of Pharmacy (New in 2019)* – Faith Fowler, Keeton Kaplan, Gwynn Smith
- *Gateway Scholarship* – Bridget Boenke, Mary Kate Miller
- *HISTA Scholarship* – Austin Riggs
- *John & Donna Underwood Scholarship* – Jesse Bates
- *MU School of Pharmacy Dean's Scholarship* – Morgan Bridwell, Tyler D'Angelo, Nosakhare Griggs
- *MU School of Pharmacy Diversity Scholarship* – Daidee Figueiral, Saul Garcia, Erika Landaverde
- *MU School of Pharmacy Don Perdue Scholarship* – Jordan Musgrove, Sarah Nickel
- *MU School of Pharmacy Leadership Scholarship* – Tyler D'Angelo, Daidee Figueiral, Nosakhare Griggs, Lane White
- *MU School of Pharmacy Scholarship Award* – Tyler D'Angelo, Amber Elliott, Daidee Figueiral, Jillian Holgate, Brianna Likens, Cheyenne Weakley
- *MU School of Pharmacy Stephen J Kopp Academic Excellence Award* – Sean Doyle, Keeton Kaplin, Gwynn Smith
- *Mary H. and Churchill Hodges Scholarship* – Michael Jeffrey
- *Pharmily Scholarship* – Amber Elliott, Briana Boirie
- *Pioneer in Pharmacy Scholarship* – Kailey Spainhower
- *Professional Development Scholarship* – Joyce Ishola
- *SOP Class of 2023 Scholarships* – Mykala Bailey, Andrew Billups, Kaitlin Bowling, Alexandra Brown, Becky Cook, Richard Casto, Sierra Cleland, Simeon Cullens, Taylor Collins, Samantha Dinis, Chandara Duongmeas, Bethany Evans, Shayna Follett, William Foster, Leah Hicks, Melanie Howard, Michael Jeffrey, Sarah Nickel, Caroline Putnam, Hannah Rinker, Kailey Spainhower, Cassie Surber, Tanner Sweeney, Austyn Turner
- *Trivillian's Scholarship* – Tanner Sweeney
- *W.B. "Bart" and Doris Andrews Scholarship* – Marendra Garlow
- *D. JoAnne & F. Gordon Yingling Scholarship* – Richard Casto



**Richard Casto** of Huntington was the first recipient of the **D. Joanne and F. Gordon Yingling Scholarship**, which was one of two established in 2018 by Dr. Kevin W. and Mrs. Mary Alice Yingling.

Kevin W. Yingling, R.Ph., M.D., is a 1985 graduate of the Joan C. Edwards School of Medicine, former chair of the department of internal medicine, founding dean of the School of Pharmacy and a practicing physician with Marshall Health. He is also the current chair of the Cabell Huntington Hospital board of directors. Mary Alice Nash Yingling, M.A., is a lifelong Cabell County resident and a 1981 graduate of Marshall University with a Master of Arts in Speech and Language Pathology.

The scholarship awarded to Casto was created for first-year students at the Marshall University School of Pharmacy. First preference is given to students from Cabell County, West Virginia. Second preference is given to students from West Virginia. The award is renewable pending normal academic progress.



**Mary H. Hodges** has endowed a new scholarship to honor Gayle Brazeau, Ph.D., dean of the Marshall University School of Pharmacy. The **Mary H. Hodges School of Pharmacy Scholarship** is for pharmacy students with financial need who are residents of Cabell or Wayne County, West Virginia, Lawrence County, Ohio, or Boyd County, Kentucky.

"Dean Brazeau is outstanding," said Hodges, a Huntington native who strives to help Marshall rise. "Gayle's professionalism, quality of care and genuine kindness make her an excellent role model for her students."

Scholarship recipients will be selected by Dean Brazeau in cooperation with the Office of Student Financial Assistance. The scholarship will be in the amount of \$1,000 a year for the first four years, but will likely increase as the endowed fund for the scholarship grows.

Mrs. Hodges and her now late husband endowed the Mary H. and J. Churchill Hodges School of Pharmacy Scholarship in 2016. In addition to scholarship opportunities, she has supported other Marshall initiatives and been involved with the Huntington Museum of Art and Cabell Huntington Hospital.

# PROFESSIONAL DEVELOPMENT

National patient safety advocate and author Sorrell King spoke to pharmacy, nursing and medical students and professionals at our first **MUSOP Yingling Lecture** in April. King's book, *Josie's Story*, is a memoir about her daughter and the medical errors that lead to her death. The book is now used as an educational tool in the healthcare industry.

More than 20 faculty, staff and students attended the **American Association of Colleges of Pharmacy's annual meeting** in Chicago.

Residents met with William Zellmer, president of Pharmacy Foresight Consulting, to discuss career and leadership paths.



*Dr. DiPiro  
Dean Brazeau*



To kick off **American Pharmacists Month** in October, the school hosted a **Career Expo** networking event designed to connect students from years one through four with employers, residency programs, fellowship programs and internship opportunities. Dr. Joseph T. DiPiro, Dean of the Virginia Commonwealth University School of Pharmacy and former editor of *The American Journal of Pharmaceutical Education*, delivered a keynote address.

**Marshall's School of Pharmacy achieved continuing education provider status in August 2019.** Since then, six hours of continuing education have been offered with a total of 66 continuing education units (CEUs) awarded among 22 recipients. CEs were offered on topics including diabetic foot assessment and management, hazardous drug handling, bloodborne pathogens, and immunizations.

All first through third year students now attend monthly **Dean's Hour** sessions that feature guest speakers on various professional development topics.

At the 2019 meeting of the **American Society of Health-System Pharmacists** in Las Vegas, more than 80 alumni, preceptors, students and faculty attended a networking reception hosted by the School of Pharmacy.



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