

PVM REPORT

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CENTAUR EQUINE SPECIALTY HOSPITAL

Purdue University College of Veterinary Medicine
launches satellite equine facility in Shelbyville, Ind.



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PVM

2016 ANNUAL REPORT



COVER STORY

A satellite facility of the Purdue University College of Veterinary Medicine, the Centaur Equine Specialty Hospital in Shelbyville, Ind., is set to open early in 2017, with the mission of maximizing the performance of all horses used for sport, competition or pleasure by preventing, diagnosing and treating diseases or conditions that keep equine athletes from achieving their full potential.

After the official groundbreaking during the fall of 2015, actual construction started this spring at the site, which is just a short distance from Indiana Grand Racing and Casino and only an hour away from Hoosier Park in Anderson, Ind. In this article, meet the team that will care for horses at the nearly \$9 million state-of-the-art facility, see construction photos and learn more about the hospital's features and the services that will be offered.

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DEAN'S COLUMN



December brings to a close an exciting year marked by significant milestones, including construction of our new Centaur Equine Specialty Hospital in Shelbyville, Ind., and celebration of the 40th Anniversary of our College's Veterinary Technology Program. Additionally, we have seen great success in fundraising as we near our goal for "Ever True: The Campaign for Purdue University." As I walk in the hallways of Lynn Hall, greet our faculty, staff and students, and sense the collegiality and pride of our Purdue Veterinary family, I can't think of a more rewarding opportunity than to serve as dean at this pivotal time in the history of Purdue Veterinary Medicine.

Within the pages of this Annual Report issue of our PVM Report magazine, you will see a number of stories that provide an up-close perspective on our people and programs. From the growth of our International Programs, to our leading-edge research and our innovative initiatives to foster increased diversity at Purdue and in the veterinary medical profession, we are making a difference. That is why my wife, Dorothy, and I have made our own personal investment in the future of our College through gifts to the Ever True campaign, which we've shared about in the story at the beginning of the Donor Honor Roll.

Our investment through the Ever True campaign focuses on a particularly challenging issue with significant implications for the future of the veterinary medical profession. That issue is the cost of a veterinary education. Dorothy and I are excited to do our part by establishing new endowed scholarship funds that will help students pursue their dreams. I believe strongly in the value of having dreams—having a dream, and pursuing it with all of your energy and everything you have in you. That's what we all should do. Dorothy and I do not want money to be an obstacle that prevents students from pursuing one of their most important dreams—higher education.

Our University also is addressing this issue by means of a tuition freeze, now in its fifth consecutive year. Our veterinary students are benefitting significantly because their cost for an outstanding Purdue Veterinary Medicine education has held steady since the 2013-2014 academic year, while costs at other veterinary colleges across the country have continued to rise. This bold step by Purdue gives our College a significant competitive advantage and preserves the value of our scholarship funds.

Purdue Veterinary Medicine always has been characterized by strong hands-on oriented learning, a can-do spirit, genuine collegiality, pioneering research and an unwavering commitment to excellence. Today we are building on that solid foundation with our outstanding team of faculty and staff and the guidance of our new strategic plan that charts our course forward to the year 2020. There has never been a better time to invest in Purdue Veterinary Medicine and I hope you will join me on our journey forward by participating in Ever True: The Campaign for Purdue University.

A handwritten signature in cursive script that reads "Willie M. Reed".

Willie M. Reed, DVM, PhD
Dean

PVM'S

CENTAUR EQUINE

SPECIALTY HOSPITAL

NEARS FINISH LINE

Over the past year, workers have transformed a corn field in Shelby County, Ind., into a state-of-the-art facility for advanced medical treatment of equine athletes. A satellite facility of the Purdue University College of Veterinary Medicine, the Centaur Equine Specialty Hospital is set to open early in 2017, with the mission of maximizing the performance of all horses used for sport, competition or pleasure by preventing, diagnosing and treating diseases or conditions that keep equine athletes from achieving their full potential.

The \$8.8 million structure encompasses 17,000 square feet, and is located just a few miles from the track at Indiana Grand Racing and Casino in Shelbyville, and within an hour's drive from Hoosier Park in Anderson, Ind.





New stalls await patients at the Centaur Equine Specialty Hospital.



The main entrance to the Centaur Equine Specialty Hospital takes shape as construction work progresses.



Construction progresses on a round pen behind the hospital.

The Centaur Equine Specialty Hospital will provide specialty medical and surgical services for horse owners while also supporting equine research and education of future equine specialists.

Site preparation began during the fall of 2015, at the time of the official groundbreaking. Actual construction started in the spring with the goal of having the hospital complete by the end of 2016. The property was purchased by the Purdue Research Foundation with \$2.3 million in support from Shelby County and the City of Shelbyville. Centaur Gaming, which owns and operates Indiana Grand Racing and Casino and Hoosier Park, pledged \$3.1 million to name the facility.

The Centaur Equine Specialty Hospital will offer advanced diagnostic imaging, shockwave therapy, nuclear medicine, regenerative medicine, endoscopic laser surgery and specialized equine orthopedic and soft tissue surgery. “The goal is to be one of the premier performance horse hospitals in the country,” said Dr. Stephen Adams, Purdue Veterinary Medicine

professor of large animal surgery, who helped with planning for the new facility. “To achieve that goal, the hospital will include some of the most advanced diagnostic equipment, including an Equine 4DDI diagnostic imaging system.”

The 4DDI machine contains two robotic arms, allowing a horse to walk in-between for more efficient processing. “There are only two other places in the United States that currently offer the 4DDI machine and we will be the third,” said Dr. Mimi Arighi, associate professor of large animal surgery and member of the College’s Department of Veterinary Administration, who serves as the lead faculty member on the facility planning committee. “The other two are located at the New Bolton Center in Pennsylvania and Cornell Ruffian Equine Specialists on Long Island outside Belmont Park.” The unit can perform all types of diagnostic techniques, including x-rays, fluoroscopy, CT and tomosynthesis. “The big difference with the 4DDI machine is that a horse can stand during the procedure,” explained Dr. Arighi.



Siding goes up on the barn adjacent to the hospital's treatment areas.

“With all other systems, a horse has to be under anesthesia for procedures like CT, which is always a risky thing to deal with when treating a horse.”

The new hospital also will offer nuclear imaging, which works with radioactive iodine to pinpoint where the equine patient's problem might lie and where x-rays should be taken. The system uses a Gamma Camera, just like the kind used for humans, and is capable of a total body bone scan.

Other features of the gated hospital complex include a canopied entrance that leads into two holding stalls for outpatient work. The lobby has hospitality areas for guests and a private consultation room. A separate barn that is connected by a walkway holds six regular stalls, four of which have outside doors to paddock areas and two with just windows. The barn also features two larger mare and foal stalls and one isolation stall. The isolation stall only has access from the outside and is an essential feature for preventing the spread of infection to other animals. “The isolation portion of the barn has three separate

areas,” explained Dr. Arighi. “There are two outer rooms leading into the stall to ensure whatever infection is in there stays in there. Extra exterior garments are put on before entering the actual stall and are removed as the person exits the stall and moves through the zone rooms.”

A round pen at the back part of the clinic will be utilized for orthopedic and respiratory diagnoses. In addition a long hallway constructed on the side of the facility will serve as the “lameness hallway” – an area sheltered from the weather where a horse will be able to step up its gait. Additional buildings will be placed on the back part of the property for storage, equipment and supplies. The facility also has been designed for expansion down the road.

The College already has recruited a team of specialists who will work with horse owners and trainers to provide the most current diagnostic tests and the most effective therapeutics. The team will be led by Dr. Timm Gudehus, senior veterinary surgeon, who started in October in order to help with preparations

Meet the team.



Dr. Timm Gudehus
Senior Veterinary Surgeon



Dr. Kayla Le
Associate Veterinary Surgeon



Cheryl Boyd, LVT
Chief Anesthesia Technologist



Shelby Harber, RVT
*Lead Diagnostic Imaging Technologist
& Surgical Nurse*

for the opening of the facility and to get acquainted with area horse owners and veterinarians in all three breeds of the racing industry as well as other disciplines of horses in the region.

Dr. Gudehus comes to Indiana from Germany where he served as an equine surgery specialist since 2012. His love of horses and equestrian sports dates back to his early childhood, growing up in a family with a long history of horse riding and breeding. His interest in riding show-jumpers turned semi-professional as he finished high school and went on to veterinary school in Munich. After earning the German equivalent of the DVM degree, and completing an internship in Munich, he came to the U.S. for an internship in equine orthopedics in California, followed by a residency in equine surgery at the Louisiana State University School of Veterinary Medicine.

“This additional training in the U.S. exposed me to

all the equine disciplines that I hadn’t seen until that point, especially Thoroughbreds, racing Quarter Horses and a little bit of Western performance,” said Dr. Gudehus. “That was followed by a two-year stint as a staff surgeon in Auckland, New Zealand, which added the very last discipline that I hadn’t worked on, which was Standardbreds.”

Dr. Gudehus returned to Germany with his wife, an American citizen and small animal veterinarian, to become the leading surgeon at one of the largest and fastest growing hospitals in Europe, where he worked on Olympic-level Warmblood horses. “That adds up to 13 years as a veterinarian, almost ten in my surgical training, and six years as a boarded surgeon, on three continents and back, in every discipline,” he said.

Now that he is back in the U.S., he is enthusiastic about taking on the challenge of opening the new Centaur Equine Specialty Hospital. “I am excited



about the fact that pretty much all these equine disciplines are gathered around the new facility in Shelbyville. I really hope that people will look at this and say ‘cool, here’s somebody who otherwise we would have to fly in,’ to do exactly what I will be providing at this facility,” Dr. Gudehus explained. “I also am really excited to work on race-horses again... my heart beats with the speed horses.”

Purdue Veterinary Medicine Dean Willie Reed said, with the benefit of the remarkable experience and expertise of Dr. Gudehus, the state-of-the-art facility will be a priceless resource for the Indiana equine industry. “I couldn’t be more pleased with the way in which the dream of a world-class equine specialty hospital in proximity to our state’s two race tracks is becoming a reality,” Dean Reed said.

In addition to recruiting Dr. Gudehus, the College hired Dr. Kayla Le as associate veterinary surgeon

and two equine veterinary technologists. Dr. Le earned her DVM at Kansas State University’s College of Veterinary Medicine in 2014 and then completed an equine medical and surgical rotating internship at the Louisiana State University School of Veterinary Medicine and a large animal surgical internship at the Cornell University College of Veterinary Medicine. Originally from Omaha, Neb., Dr. Le participated in western horseback riding growing up. She also owned horses and was involved in the rodeo.

Shelby Harber, RVT, lead diagnostic imaging technologist and surgical nurse, and Cheryl Boyd, LVT, chief anesthesia technologist, came on board earlier in the year and have been training in the College’s Large Animal Hospital during the construction of the facility in Shelbyville. “The Centaur Equine Specialty Hospital will accommodate all aspects of equine surgery necessary to optimize the performance of sport horses,” said Dr. Gudehus. “We will treat respiratory, orthopedic and every aspect of fracture repair.”

“We are committed to several core values that will characterize the treatment provided,” said Dr. Adams. “Those values include excellence in patient care; education of horse owners, trainers, caregivers, veterinarians and veterinary students to optimize the health of horses; improvement of health and well-being of equine athletes through clinical research to advance diagnostic and therapeutics; to act ethically with all clients and exhibit the integrity clients expect and deserve; and to deliver value to each client by providing efficient service and individual care of each patient. The health and welfare of the horse is the highest priority.”

As construction work is wrapping up, the move-in process is set to begin in December with the goal of opening the center after the first of the year. Horse owners, trainers and equine enthusiasts who attend Purdue Veterinary Medicine’s annual Horseman’s Forum February 11 will have a chance to see the new hospital first-hand. Normally held at the College in West Lafayette, the Horseman’s Forum will be held at Indiana Grand Racing and Casino for 2017 only, allowing for tours of the Centaur Equine Specialty Hospital. An official Grand Opening for the new hospital is planned in the spring, at the start of the 2017 racing season.



VETERINARY TEACHING HOSPITAL expands services



When Charley, a loveable, energetic chocolate Labrador Retriever belonging to Dr. Michael Hiles of Lafayette, came up limping after an all-out, though failed chase to catch a hawk, she found just the help she needed at Purdue Veterinary Medicine's Veterinary Teaching Hospital (VTH). She underwent successful surgery to repair a partially ruptured tendon, and then, just like humans recovering from a torn Achilles tendon, began a long road to full recovery, aided significantly by the VTH's physical rehabilitation service and its underwater treadmill.

The hospital installed the underwater treadmill in 2015 as part of the new rehabilitation service, which was established after Dr. Stephanie Thomovsky joined the faculty. A board-certified clinical assistant professor of veterinary neurology and neurosurgery, Dr. Thomovsky also is a certified canine rehabilitation practitioner. "The benefit for dogs using an underwater treadmill is similar to walking under water for humans," Dr. Thomovsky explained. "If you walk in the water it's more difficult due to resistance, but there is less stress on the joints due to buoyancy. The buoyancy makes our patients lighter and puts less stress on dogs recovering from both orthopedic and neurologic surgeries, or those with osteoarthritis." Dr. Thomovsky added, "Also, we keep the water warm. It's usually about 88 degrees, so that will increase blood supply to the limbs. That also helps in the recovery."

Jessica Bowditch, veterinary neurology/neurosurgery and physical rehabilitation technician, works with dogs using the treadmill, and in most cases, gets in the tank with the canines. "I have had some dogs that sort of have a look like, 'What is that?' But, usually, you put them in and they're fine." Eventually both Dr. Thomovsky and Jessica hope the College will be able to offer physical rehabilitation as a block that fourth-year veterinary students and veterinary technicians can rotate through and learn things such as how and when to utilize an underwater treadmill for canine patients.

The underwater treadmill therapy was just the ticket for Charley. After her surgery, Charley initially was fitted with a special orthotic device shaped like a boot to help with her recovery. After the boot was removed, Charley became one of the first VTH patients to use the treadmill, beginning with treadmill therapy three days per week. "She had a lot of muscle atrophy, and the therapy strengthened her leg muscles and helped her relearn how to walk normally," said Dr. Thomovsky. As Charley reached the point of being nearly fully recovered, her visits

to include **PHYSICAL THERAPY & HEMODIALYSIS**



decreased to just once a month. Dr. Hiles was thrilled with the results. “Without this treatment, Charley likely would have become a three-legged dog,” Dr. Hiles commented.

Charley’s treatment proved to be just another chapter in a long-standing relationship between Dr. Hiles and the Purdue University College of Veterinary Medicine—a relationship that came full-circle with Charley’s surgery. A 1987 Purdue graduate in electrical and computer engineering, Dr. Hiles earned his PhD in PVM’s Department of Basic Medical Sciences in 1992. His research involved working on a collaborative team that included Dr. Gary Lantz, PVM professor of small animal surgery. The team studied porcine small intestine submucosa (SIS), which was found to have a unique ability to regenerate tissue. The discovery was licensed to Cook Biotech, which Dr. Hiles helped found in 1995 and where he now serves as vice president and chief scientific officer.

Twenty years after the company’s founding, SIS was used in the surgery to repair Charley’s tendon in the Small Animal Hospital.

Hemodialysis Unit Adds Treatment Option

The Veterinary Teaching Hospital also opened its first hemodialysis unit in the Small Animal Hospital (SAH) in the past year. The unit is run by Dr. Sarah Steinbach, assistant professor of small animal internal medicine, and Dr. Larry Adams, professor and co-section head of small animal internal medicine, with the support of the entire small animal internal medicine team. The hemodialysis machine was acquired in conjunction with Dr. Steinbach’s faculty appointment in the Department of Veterinary Clinical Sciences last year.

Dr. Steinbach came to Purdue from Germany with the specific goal of offering hemodialysis at the VTH. She already had established a veterinary hemodialysis service at Justus-Liebig University Giessen in Germany, where she worked after completing her residency in small animal internal medicine. In addition, Dr. Adams

previously had undertaken a sabbatical to learn about the process. “I did a sabbatical focused on hemodialysis that involved learning the different options,” said Dr. Adams. “I went to a dialysis unit in Bern, Switzerland where I had a lot of training.” Both are enthusiastic to offer this treatment option in the SAH to help animals with kidney disease and to advance veterinary knowledge through research in this area.

The first patient to receive hemodialysis in the SAH was Brinley, a Bernese Mountain Dog with congenital kidney disease. Brinley was born with renal dysplasia, a defect that causes the kidneys to malfunction and creatinine levels to soar to unsafe levels. To keep creatinine levels in check, Brinley came in every Monday, Wednesday, and Friday morning at 7:30 and got examined and weighed. Results of this examination and basic bloodwork were used to plan the treatment. Then, once he and the team were ready, he was hooked up to the hemodialysis machine. Through a special catheter, blood would flow through the hemodialysis machine and the artificial kidney (dialyzer). With the help of dialysate, which is produced by the machine using filtered water, unwanted waste products were removed from Brinley’s blood.

Pictured above: Charley with her owner, Dr. Michael Hiles, before one of Charley’s underwater treadmill therapy sessions.

Pictured to the left: Jessica Bowditch, veterinary neurology/neurosurgery and physical rehabilitation technician, works with Charley using the underwater treadmill, which helps rehabilitating dogs and also can be used for dogs who need a different way to exercise.



The Small Animal Hospital's first hemodialysis patient, Brinley, was cared for by (left-right) Dr. Larry Adams, Dr. Sarah Steinbach, Versa Technologist Debbie Ramirez and Small Animal Medicine Technologist Julie Commons, with the support of all the hospital staff.

Dr. Steinbach said that Brinley was a special hemodialysis patient because of his chronic illness. “Normally when we use hemodialysis to treat patients, it’s for animals with acute kidney injury,” Dr. Steinbach explained. “Animals that are ill with failing kidneys due to leptospirosis, other infectious diseases or toxins can undergo dialysis while the kidneys are regenerating, with the hope that at some point the kidney can take over functioning again.” In Brinley’s case, the kidney function did not recover and his need for hemodialysis was to improve his quality of life. Pet insurance assisted in covering large parts of his treatment.

Though Brinley passed away, his legacy lives on, and Dr. Steinbach said the Hemodialysis Service was very fortunate to be able to treat Brinley as the unit’s first case. “We learned a lot from his repeat treatments and the recurring hemodialysis sessions also helped us to train staff members and improve our routines. This all will benefit future patients undergoing hemodialysis.”





LEARNING

PVM Office of International Programs Delivers Global Impact

By Kelsey Johnson

Students in the Purdue University College of Veterinary Medicine are increasingly traveling the world and learning about global veterinary medicine. Purdue Veterinary Medicine's Office of International Programs (IP) offers three types of study abroad opportunities and students are taking full advantage. PVM faculty-led programs, exchange programs and independent externships have enabled students to travel to six continents and visit 35 countries in the past five years alone. Their destinations have included: Australia, Austria, Belize, Bolivia, Botswana, Brazil, Canada, China, Costa Rica, the Czech Republic, Ecuador, France, Germany, Ghana, Grand Cayman, Haiti, India, Italy, Japan, Jordan, Kenya, Malawi, Morocco, Nepal, Nicaragua, Panama, Peru, Scotland, South Africa, Spain, Sri Lanka, Switzerland, Thailand, Uganda and the UK.

Opportunities to study abroad are attracting both DVM and Veterinary Technology students. In the DVM Class of 2016, 45 percent of the class members studied abroad at some point during their academic career. This year also marked the Veterinary Technology Program's first study abroad trip, during which nine students traveled with PVM Instructional Technologist Julie Roahrig, RVT, to Guatemala. During the 2016-2017 academic year, 60 students are participating in international learning experiences.

PVM Director of International Programs Will Smith II said students are coming back from these experiences with the skills to engage and impact the international community, the understanding of social responsibility on a global scale, and knowledge of global issues. By studying abroad, PVM students develop respect for diverse people and cultures and an understanding of the skills required for working across cultures. Will also explained that veterinary students are exposed to international issues that impact the profession and the role that veterinarians play in global education and global health.

A case in point involves Taylor Culver, of the DVM Class of 2018, who traveled to Nepal during the summer of 2016 and spent time working in a mobile veterinary hospital. "Many dogs came into the clinic each week with broken legs," Taylor said. "Some got pins put in and others got casts. Usually the reason given for the dogs breaking their legs was falling down steps! Traumatic wounds were seen often in the clinic since most dogs live outside." She further explained, "Rickets was common in puppies due to a lack of proper diet (calcium deficiency). Most people just feed rice and scraps from the table since dog food is expensive and hard to buy in Nepal. The German shepherd was the most common dog seen by the clinic followed by the Japanese Spitz."



Taylor Culver, of the DVM Class of 2018, cared for a parvo puppy at a clinic in Nepal. Parvo was often seen due to lack of vaccinating. Also, there was no isolation of contagious disease at the clinic simply because of a lack of resources to do so.

Taylor Smith, also of the DVM Class of 2018, traveled to Kenya during the same summer and treated lions and elephants. When asked if she would recommend traveling to Kenya to other students, she said, “YES! Not only will this trip benefit students in

experience enabled Purdue Veterinary Technology students to spend two weeks in the Guatemalan jungle in June at ARCAS-Petén, a wildlife rehabilitation center that serves animals primarily confiscated from illegal wildlife trafficking. The students worked with the attending veterinarians on multiple species, including macaws and other types of parrots, howler and spider monkeys, crocodiles, toucans, peccary, agoutis and pacas. They also attended lectures, performed animal husbandry and participated in hands-on labs. An additional feature of the trip involved taking an overnight excursion to the Tikal Mayan Ruins to learn about the Mayan civilization and culture.



Nine veterinary technology students participated in the Veterinary Technology Program’s first study abroad trip to Guatemala in June. Back row (left - right): ARCAS veterinarian Alejandro Morales; Rebecca Hoffman, VT ‘19; Christy Wolf, VT ‘18; Sierra Church, VT ‘18; Hannah Chalmers, VT ‘18; Veterinary Technology Program Instructional Technologist Julie Roahrig, RVT; and ARCAS veterinarian Fernando Martinez. Front row (left - right): Marleso, a senior veterinary student from Guatemala, with Beth Hinshaw, VT ‘18; Amanda Gillespie, VT ‘18; Katie Roberts, VT ‘18; Molly Roberts, VT ‘18; and Taylor Seufert, VT ‘18.

learning different aspects of veterinary medicine, it will change their entire outlook on life. After spending a month in a third-world country, you appreciate everything you have here.” Practicing in a different culture and country has shown both students the different challenges confronting the veterinary medical profession around the world.

Students are also greatly impacted by the people they meet during their trips. “Many of the friends I made in Nepal have asked if I will be back. I hope to be back one day to do more trekking in the Everest region! The thing I will remember most about Nepal is definitely the kindness of the Nepali people and their tight-knit community,” Taylor Culver said. Taylor Smith remembers being amazed by the kindness of the Kenyan people she met. “Every single person that I met in Kenya was so kind and amazing. Everyone there becomes your family and it is hard to leave such a beautiful, loving country,” she explained. “There is no better place in the world to experience wildlife medicine than in Kenya. Being a part of the antipoaching and wildlife conservation efforts of the Kenya Wildlife Service is a huge honor. You cannot leave Kenya the same person you were when you came.”

The Veterinary Technology Program study abroad

Not only does the IP Office help PVM students obtain learning experiences around the world, it also provides students from partner universities the opportunity to come to Purdue. One exchange program, with the Kitasato University School of Veterinary Medicine in Japan, brings several Japanese veterinary students to Purdue for two weeks in the summer to gain first-hand exposure to clinical training in the College of Veterinary Medicine. Additionally, one PVM faculty member is also invited to give lectures, presentations and seminars at Kitasato’s Towada campus in Japan each year. According to Will Smith, partnerships like this provide incredible opportunities to both universities.



Taylor Smith, of the DVM Class of 2018, treats an elephant in Kenya.

The IP Office also works to help students make the most of their international experience in a variety of ways, including through the International Veterinary Certificate Program. Completed before, during and after a study abroad experience, this program aims to give students a better understanding of international veterinary medicine and to prepare them beforehand to engage with the culture they plan to enter. The certificate program provides the students with information about all of the available study abroad options; scholarship opportunities and how to

make their applications stand out; safety and health tips for traveling; global approaches to veterinary medicine; and how to maximize the benefit of a study abroad experience after they return. As Will explained, the PVM Office of International Programs is working hard to provide students with a variety of opportunities to expand their intercultural knowledge and to learn about veterinary medical practice in settings outside of the United States, while also giving them the tools to use their knowledge to make a global impact.

PRIORITY PAWS

Boosts

Student Surgery Experience and Animal Shelter Adoptions

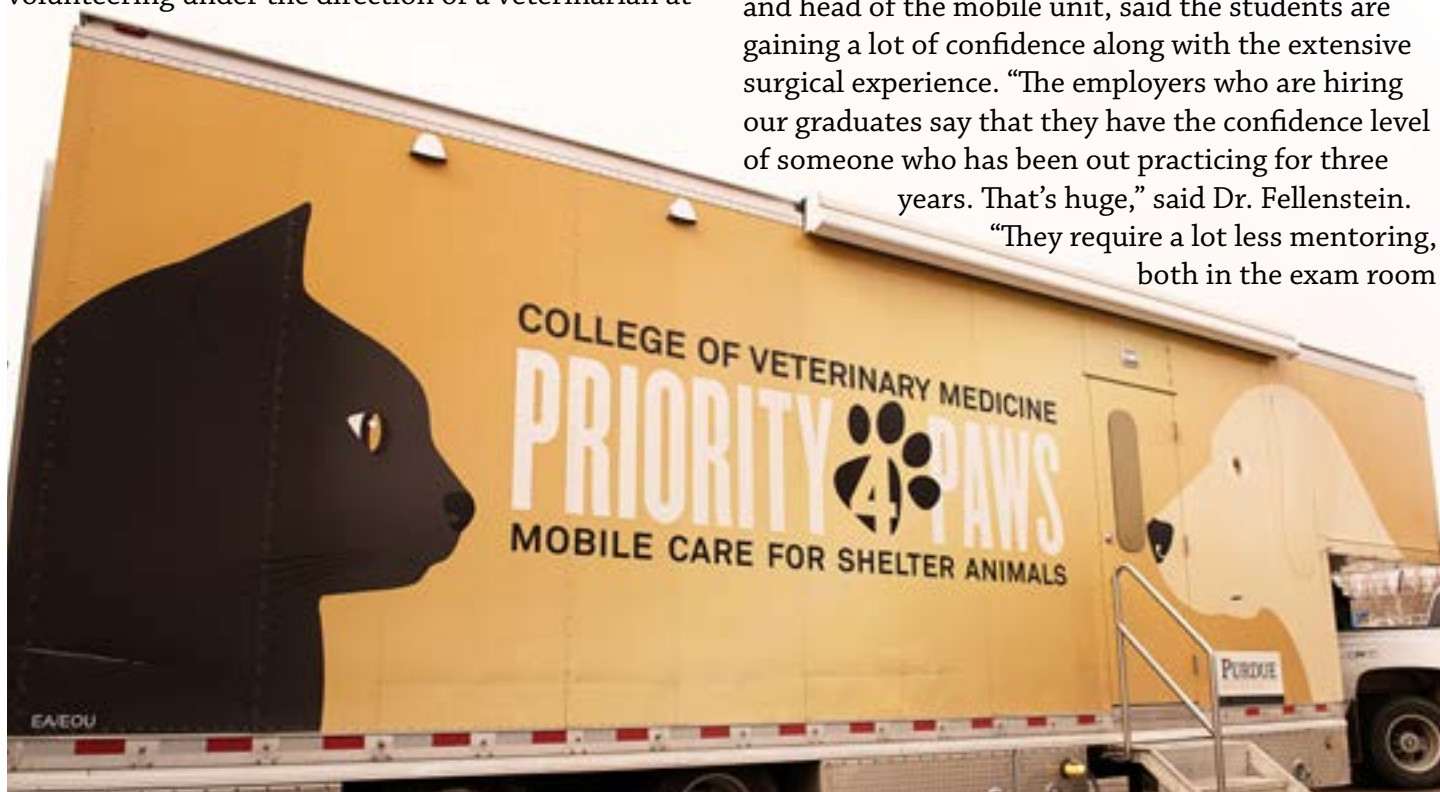
By Kelsey Johnson

Purdue University's College of Veterinary Medicine is impacting Indiana and beyond in a major way through the Priority 4 Paws (P4P) Shelter Medicine and Surgery Program. Begun in 2012, the program incorporates an elective course that allows fourth year DVM students to travel to a number of Indiana animal shelters and perform spay/neuter surgeries in the Priority 4 Paws mobile surgery unit. P4P students spend two weeks on the mobile unit and one week volunteering under the direction of a veterinarian at

an animal shelter. During six days of surgery, each student performs an average of 35 total surgeries. This opportunity provides the soon-to-be graduates with crucial hands-on surgical experience on older animals as well as kittens and puppies younger than five months of age, ensuring that they are prepared to perform both standard and early-age spay/neuter surgeries.

Dr. Carol Fellenstein, mobile shelter surgery clinician and head of the mobile unit, said the students are gaining a lot of confidence along with the extensive surgical experience. "The employers who are hiring our graduates say that they have the confidence level of someone who has been out practicing for three years. That's huge," said Dr. Fellenstein.

"They require a lot less mentoring, both in the exam room



and in surgery, and they are actually being offered higher starting salaries because of this.”

Looking back, Dr. Lynetta Freeman, associate professor of small animal surgery, said she didn’t know the impact Priority 4 Paws would have when she began the program. “I’m a surgeon—my intent was to expose DVM students to surgery,” Dr. Freeman commented. However, she said she was surprised by the number of nice animals in shelters just waiting to be adopted. “This realization made me more sympathetic to these animals’ needs and helped develop my passion for the plight of the animal,” Dr. Freeman said. “This has developed into a personal passion for shelter medicine, which was a field I didn’t really know about before P4P.”

Priority 4 Paws not only serves the educational needs of DVM students, but also helps Indiana animal shelters. The P4P mobile surgery unit travels around the state to 20 partner shelters, where pre-adoption surgeries are performed free of charge for the shelters. Jim Tate, director of the Humane Society of Clinton County, said that Priority 4 Paws has helped to lower the cost of taking in animals. Dr. Fellenstein said P4P’s services provide a huge financial relief for shelters. “The state of Indiana just recently passed a law stating that all animals that are adopted out of shelters need to be spayed or neutered before adoption. That’s a huge financial responsibility being put on those shelters. I think that this is going to make the demand for our services even higher. When we go on site, we usually do anywhere between 15 and 40 surgeries in a day. That’s a massive impact financially,” said Dr. Fellenstein. “When shelters save that money, they roll it right back into their animal programs.” Priority 4 Paws only asks shelters to provide lunch for the surgical team.

Priority 4 Paws also contributed to the Henry County Humane Society’s first no-kill year for healthy



Maryssa Hatt, a member of the DVM Class of 2016, cares for a shelter dog named Harley awaiting surgery in the Priority 4 Paws unit. (Photo courtesy of Nestlé Purina PetCare – “The Inside Scoop” e-newsletter)

animals. Henry County Humane Society Director Linda Bir-Conn said that because the Priority 4 Paws program taught her and her staff proper methods for housing animals and how to perform tests, countless animal lives have been spared. “Many more animals have been saved due to simply running tests here at the shelter and us being able to care for various conditions versus euthanizing for lack of funds,” Bir-Conn said. Dr. Fellenstein adds that partner shelters are seeing adoption rates increase since an animal that’s been spayed or neutered prior to adoption is much more adoptable.

"In a meeting we had with our shelters, they told us that their adoption rates were going up by 50 to 70 percent. Fewer animals are showing up in shelters, more are getting adopted, and less are being euthanized," said Dr. Fellenstein. "The animals' length of stay in the shelter after they've been spayed or neutered is significantly shorter, too."

Dr. Freeman is also pleasantly surprised with the impact P4P has had on its partner shelters. "Our program saved enough money for one shelter to hire another person to take care of shelter animals. Without that employee, those animals would suffer," Dr. Freeman said. "Since the start of P4P, Indiana euthanasia rates for healthy or treatable animals have decreased by over half. We are saving lives."

PVM's Priority 4 Paws Program also has served as an inspiration for other universities. "Ours was the second program of this type, following Mississippi State University's original mobile unit program," said Dr. Freeman. "We've helped a number of other schools develop plans for their own mobile spay and neuter clinics." Dr. Fellenstein added that even schools outside the United States have taken notice of P4P. "We were just visited by a Colombian veterinarian who is very interested in the mobile unit, and bringing that idea to the National University in Bogotá, Colombia," said Dr. Fellenstein. "She is interested in getting a mobile unit to help control the feral cat and dog population in their city. That's international exposure."

Dr. Fellenstein said P4P is making a difference in even more ways. "We're getting a reputation. Students are actually choosing Purdue for this program. People who interview potential students have told me these prospective students are commenting on our program and want to get involved," said Dr. Fellenstein. "It's really making a difference. We're also working with Indianapolis Animal Care and Control which works with the International Business College Veterinary Technician program. They bring vet tech students in when we are in Indianapolis doing surgery, so their students can get practical experience in surgical recovery and that process." Dr. Fellenstein added that high school students are also benefiting from P4P. "In New Castle, Ind., there's a veterinary technology high school program for students who are interested in veterinary technology and medicine. They come and work the recovery days in New Castle. The first group gets the animals ready for their day, and a

second group does all of the animal recovery in the afternoon," said Dr. Fellenstein. "Not only are we influencing our own Purdue students, but also high school students and veterinary technology students."

Though P4P is already a major success, Dr. Freeman's goal is to someday have enough funding for all DVM students to take the P4P rotation, or even for PVM to develop a full shelter medicine program with a clinical rotation offered through the P4P program. Dr. Fellenstein said they are in the early stages of expanding the program. "We hope P4P will be a part of a bigger program, so this is what I'm focusing on now: what would the program look like, how can we develop it, and where do we go for funding?" Dr. Freeman said that she's thankful for this possibility. "These are ambitious goals, but six years ago I would have said running a mobile unit was also an ambitious goal," Dr. Freeman explained. "I think a lot of our success can be attributed to our team, including Dr. Carol Fellenstein and our awesome veterinary technicians; the students who have been so wonderful to work with; our donors; and the PVM administration that has stood behind this program."

Drs. Freeman and Fellenstein stressed that funding is a big issue for P4P. Initial funding was provided by PetSmart Charities. "Now the College is looking to find funds needed for ongoing support of the program," said Dr. Fellenstein. "The Dean is working hard to find funding to not only keep the program going, but also expand it so that all the students can go through it. If there's anyone who is interested in the program, please come talk to us. We are more than willing to spend some time with you and let you know what we do."

LEARN MORE

For more information about the Priority 4 Paws Program, visit the P4P website:

vet.purdue.edu/priority4paws



PVM STUDENT'S PASSION FOR DIVERSITY BRINGS CHANGE TO SAVMA LEADERSHIP STRUCTURE

A Purdue veterinary student is advocating for diversity, inclusion and wellness in the veterinary profession through his efforts to establish a new Cultural Outreach Officer position on the executive board of the Student American Veterinary Medical Association (SAVMA). After spearheading the drive to create the position, Kyle Hohu, of the DVM Class of 2017, now serves as one of 18 students on the SAVMA executive board from veterinary schools across the country.

Kyle first joined SAVMA in 2013, serving as PVM's SAVMA Junior Delegate. He was drawn to the position because it involved student leadership, traveling to conferences and meeting other student leaders, as well as the opportunity to learn about issues that affect veterinary students from around the country. Kyle also attended SAVMA House of Delegate meetings, where he was joined by two delegates representing each veterinary school in the country, along with some from Canada and the United Kingdom. Kyle's service in this position also fostered his passion for diversity. "During my time as delegate, I served on the Integrative Diversity and Communications Committee. That was when I first became interested in the issues of diversity and inclusion as they pertain to veterinary students and the veterinary profession," said Kyle.

Even though SAVMA had a committee devoted to diversity, Kyle noticed there was not a corresponding position on the organization's executive board. To address that concern, Kyle developed the idea of a cultural outreach officer position that would focus on issues of diversity, inclusion and wellness. "I think that these are important issues in the profession and among veterinary students. Student wellness has a lot to do with a student's feeling of inclusion in their environment," Kyle explained. "Additionally, veterinarians see a wide range of animals from a very diverse clientele. This creates the need for veterinarians to not only be well versed in different animals and diseases, but also the different cultures and lifestyles of pet owners. By being able to relate to and understand clients, as well as their animals, veterinarians can care for their patients better and establish a better relationship with their clients."

Kyle first presented his concept for the officer position during the SAVMA meeting held at the 2015 AVMA Convention. "I created the position as an ad hoc position to the SAVMA executive board, which presides over the SAVMA House of Delegates. I then had one year to work through a list of duties that I had proposed, assess the feasibility of these duties for the position and establish a body of work that would address these issues," Kyle said. Duties included collaborating with AVMA's Director of Diversity and International Initiatives, AAVMC's Office of Diversity and the Broad Spectrum Veterinary Student Association, as well as attending various veterinary wellness and diversity conferences. After Kyle's one year "trial run" of the position, he further refined the list of duties until he was confident the responsibilities would be both meaningful and manageable.

Everything came together this past summer at the 2016 AVMA Convention in San Antonio, where the SAVMA House of Delegates voted to create a permanent cultural outreach officer position on the SAVMA executive board. Kyle now is serving a one year term as the national SAVMA Cultural Outreach Officer, and training his successor.



Kyle Hohu
DVM Class of 2017

DISCOVERY



PVM DIVERSITY INITIATIVE HELPS “PREP” UNDERGRADS for Research Careers

By Kelsey Johnson

What began as a proposal to Purdue University's Diversity Leadership Team to broaden diversity in biomedical science graduate programs now is up-and-running as a pilot program in the College of Veterinary Medicine. Initially submitted in November 2015 by a Purdue Veterinary Medicine team led by Associate Professor of Basic Medical Sciences Susan Mendrysa and Assistant Professor of Basic Medical Sciences Marxa Figueiredo, the proposal became one of nine initiatives selected to receive funding through Purdue University's Diversity Transformation Award (DTA) program. Called the “Post-Baccalaureate Research Education Program for Biomedical Sciences” (PREP), the program officially began in June, with the goal of providing individuals who have already earned their undergraduate degree the opportunity to experience and participate in activities similar to those of a typical graduate student.

With the DTA funding, the pilot PREP program was able to recruit five recent college graduates from groups historically underrepresented in biomedical sciences to participate in a year-long research experience and to prepare for applying to PhD or MD-PhD programs in the biomedical sciences.

The participants are Janiel Ahkin Chin-Tai from Florida International University, Tecarla Ikard from Fayetteville State University, Danté Johnson from Louisiana State University, Cosette Rivera-Cruz from the University of Puerto Rico - Cayey, and Taylor Smith from Tuskegee University. They now are spending the year in the College's Department of Basic Medical Sciences working with faculty members on projects in their research labs.

The full-year of research experience is the largest and most important component of the PREP program, according to Dr. Mendrysa. All of the PREP participants have had previous research experience on short-term projects. “The challenges with those kinds of short-term projects, or projects that you're trying to fit into all of your other school requirements during the academic year, is that you don't really get a sense of what it's like to develop a project from the beginning and work through the ups and downs to move it forward,” said Dr. Mendrysa. “That's what's nice about this program—it allows students a full year of research in a single research lab. They're able to start out with a project and develop the project over the course of a year as their primary focus of the PREP program.”

Dr. Mendrysa said PREP also contains components designed to prepare the participants for graduate programs in the field of biomedical sciences. One of those components involves learning about scientific communication. “We’re working on writing scientific abstracts, creating poster presentations and later on we’ll work on oral presentations. Many of those same skills that are important for communicating science effectively will be important for them as they develop their graduate applications,” said Dr. Mendrysa. The participants got their first chance to display their work at a campus poster session in July.

Dr. Mendrysa also explained that PREP participants get the opportunity to take one upper level undergraduate or a graduate level course in the fall and spring semesters. “While we want the emphasis to be on research, many of these students may not have had many opportunities to take upper-level courses and we want them to be able to challenge themselves in a more rigorous course. This will be a component of grad school—you’re now expected to do research, as well as take several upper-level courses simultaneously,” said Dr. Mendrysa. “This is an opportunity for them to test themselves in a more challenging course, or if they have a gap in their undergraduate coursework, they can fill that now.”

Within the first couple of months, Dr. Mendrysa said all of the participants felt at home in their research labs. Ensuring a supportive educational climate is another focus of the program. Dr. Mendrysa said that PVM’s Director of the Office for Diversity and Inclusion Kauline Cipriani is implementing a mentor training program to help mentors become more aware of issues that students from different backgrounds face.



PREP participants join program leaders for their weekly meeting: (L-R) Dante Johnson, Tecarla Shenea Ikard, Janiel Ahkin Chin-Tai, Cosette M. Rivera-Cruz, Taylor M. Smith, Dr. Marxa Figueiredo and Dr. Susan Mendrysa.

Noting that the DTA funding for the one year pilot program is being supplemented by support from the College of Veterinary Medicine, Dr. Mendrysa said that the team is using what they've learned so far to begin developing a proposal to secure funding for a five-year program. The team hopes to receive funding from the National Institutes of Health (NIH), since the PREP program is modeled after the structure of another program that NIH supports. Dr. Mendrysa hopes to see the program create a steady supply of exceptional PhD students in the field, achieve a critical mass of underrepresented minorities in graduate/postdoctoral positions, enhance retention through culturally-relevant mentorship and transform Purdue's climate for diversity to one that is better aligned with Purdue's cultural values.

Dr. Figueiredo said that it's a really exciting opportunity for the College to host this program. "It's a chance for a few students to experience graduate school before they take the leap—they can test the waters. They're also going to be much stronger after the program, since we're committed to their success," said Dr. Figueiredo. "I think that they're going to be very successful and they're also going to give the Purdue University College of Veterinary Medicine

good and positive exposure. It's an opportunity to make programs more diverse on campus."

The DTA awards were created by the Purdue University Office of the Provost to enhance recruitment, enrollment and retention of underrepresented minority (URM) students, faculty and staff, and to study factors affecting inclusiveness and success of URM students and faculty. Sixty-six faculty teams responded to the call for proposals and \$1 million in funding is supporting the nine DTA initiatives selected.

Pictured on page 20: PREP participant Tecarla Shenea Ikard collaborates with Department of Basic Medical Sciences graduate student Joselyn Cruz-Cruz (left) while examining skeletal preparations of mouse embryos under the supervision of Dr. Susan Mendrysa, PREP program director and associate professor of basic medical sciences.

Pictured on page 21 (top): Janiel Ahkin Chin-Tai works in the research laboratory of Dr. Russell Main, assistant professor of basic medical sciences, who advises her as she sorts mouse bone samples for micro-CT analysis.





PVM Summer Research Program **FOSTERS STUDENTS' INTEREST IN DISCOVERY**

By Kelsey Johnson

For the past 15 years, Purdue Veterinary Medicine has coordinated the Summer Research Program, which pairs up students and faculty members based on mutual areas of interest for 11 weeks of focused research, seminars, field trips and symposiums. Co-sponsored by Merial, the program continued this summer, hosting a total of 18 veterinary and pre-veterinary students, including 12 Purdue DVM students, two Purdue undergraduate students and one undergraduate each from Earlham College, Southern Illinois University, Tougaloo College and Northwestern University.

Dr. Harm HogenEsch, Purdue Veterinary Medicine associate dean for research and professor of immunopathology, and Dr. Eli Asem, professor of physiology, organize the Summer Research Program and match students with faculty members based on shared research interests. Dr. HogenEsch said the program is designed to make DVM and undergraduate students aware of the opportunities to pursue research and research-related careers, and to increase the number of students that are interested in advanced training following graduation. "Research is the foundation of veterinary and human medicine, and veterinarians make important contributions to biomedical research in universities; in government agencies such as the NIH, USDA and CDC; and in industry. Working closely with faculty, staff members and graduate students helps students understand what is involved in research and can instill a lifelong interest and excitement about research," Dr. HogenEsch said. "Our summer research program also includes undergraduate students interested in veterinary medicine. These students come from all over the US, and the goal of this part of the program is to recruit talented students with an interest in research into our DVM program."

Working with their faculty mentors, the students tackle complex and challenging research topics, as

evidenced in the following examples: Brittany Rasch, of the Purdue DVM Class of 2019, worked with Dr. Sophie Lelièvre, professor of cancer pharmacology in the Department of Basic Medical Sciences, and Farzaneh Atrian Afyani, graduate teaching assistant in the Department of Basic Medical Sciences, to study breast cancer progression mechanisms; Keturah Ollie-Hayes, an undergraduate student from Tougaloo College in Mississippi, collaborated with Dr. Niwako Ogata, assistant professor of animal behavior in the Department of Veterinary Clinical Sciences, on a study of behavior responses in dogs during times when the dogs are separated from or greeted by their owners; and Abbie Haffner, of the Purdue DVM Class of 2019, worked with Dr. Marxa Figueiredo, assistant professor of basic medical sciences, studying therapeutic peptides for osteoarthritic cartilage regeneration.

All three of these students were excited to learn about research in the veterinary field. Brittany Rasch pursued the program to get a better understanding of the research process. "I'm interested in pathology so I wanted to do the program to see what research is like, since I never really did research during undergrad. I decided to branch-out to see what else I can do. I hadn't done anything with cell culture before, so I have learned a lot about that," Brittany explained. "My work is very self-directed, so I've learned how to think about experiments and how to develop them in better ways. Things don't always work out the way you think they will, so I've learned how to tweak it to find a different answer or look for something else."

Abbie Haffner also enjoyed conducting research for the first time. "Research is unlike anything I have done previously. The ability to manipulate cells and mirror changes that occur in our body while testing potential new drugs is amazing," Abbie said. "Patience has never been my strong suit. However, working in the lab and hitting the inevitable roadblocks that

occur in research has allowed me to learn a little bit of patience, gain a better understanding of perseverance and definitely strengthen my problem-solving skills. I truly believe this experience will help me down the road with anything I choose to pursue, and I am extremely grateful for it.”

Keturah Ollie-Hayes came from Mississippi to participate in the Summer Research Program because it is one of the few veterinary programs for undergraduate students in the country. “Purdue has a very well-known veterinary college where I’m from, so I was pleasantly surprised and very excited when I got accepted! This is my first time doing research, so I’m learning the research process, including the clinical part of animal behavior as well as the research part,” Keturah said. “I haven’t spent much time in a basic lab, so I’ve also learned other skills like using advanced equipment. Purdue is more advanced than my school, so it’s been very exciting.” Keturah spent the summer working with Dr. Niwako Ogata, who was impressed with Keturah’s drive and dedication. “She’s very interested in learning. I see her having lots of motivation and focus in this new environment, since she’s coming from out-of-state, and working with new people and studying a new topic. I’m impressed with that,” said Dr. Ogata.

The PVM faculty members involved with the Summer Research Program enjoy introducing participants to research and are continually impressed by the students they meet. Dr. Sophie Lelièvre began participating in the program in 2001, soon after joining the PVM faculty. “Every year that I have welcomed a student from this program in my laboratory, I have been amazed by the student’s capacity to adjust to the research settings and to provide a meaningful contribution to the research project. These students are truly outstanding and motivated in general, and it is a pleasure to interact with them,” explained Dr. Lelièvre. “I think that it is important for veterinary students and future veterinary students to be involved in research because it enriches their knowledge of biomedical sciences and gives them an in-depth perspective of the different steps that help lead to the management and treatment of diseases.”

The Summer Research Program’s impact goes even further. Dr. Ogata enjoys sharing her research and specialty with students especially because other opportunities and programs for students to

learn about animal behavior are scarce. “Animal behavior is foundational, core knowledge that all veterinary students need to know. I try to open up the opportunity for any future, outside or Purdue students,” said Dr. Ogata. Dr. Marxa Figueiredo works with students in the program because of how rewarding it is to mentor students and watch them learn new things. “Students become more well-rounded when they participate in this program. PVM is known as a strong school for teaching, but it is also strong in certain research areas and I think it’s important for students to know that,” Dr. Figueiredo explained. “When they graduate and go out into practice, they might be more open to new developments and to reading about new research.”

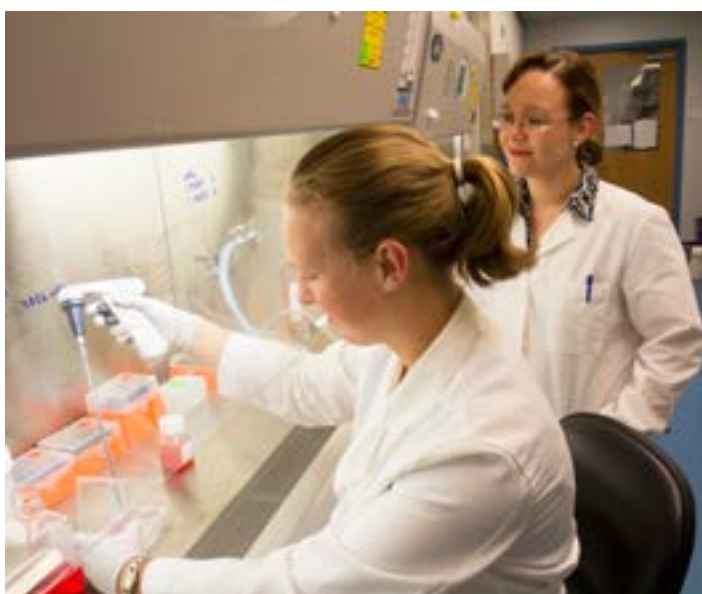
The Summer Research Program also provides a variety of events and activities for the students, including a welcoming picnic at a local park, weekly seminars led by the faculty mentors and a field trip to Covance Laboratories in Greenfield, Ind. In addition, the students attended a combined Veterinary Scholars Symposium with University of Illinois Summer Research Program students in June. The program concluded July 27, when the Summer Research Fellows participated in a research poster presentation in Lynn Hall where they shared their findings with PVM faculty and staff before traveling to The Ohio State University for the Meriel-NIH Veterinary Scholars Symposium July 28 – July 31.



Keturah Ollie-Hayes traveled from Mississippi, where she is an undergraduate student at Tougaloo College, to participate in the Summer Research Program and work on an animal behavior study with Dr. Niwako Ogata, assistant professor of animal behavior in the Department of Veterinary Clinical Sciences.



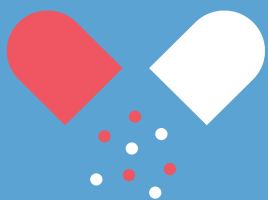
Summer Research Program participant Ana Vázquez-Págan, an undergraduate pre-veterinary student, discusses her research poster on comparative oncology research with PVM Chief Large Animal Technologist Pat Navarre (left) and Clinical Associate Professor of Small Animal Community Practice Steve Thompson.



Purdue veterinary student Abbie Haffner works in a laboratory under the supervision of Dr. Marxa Figueiredo, assistant professor of basic medical sciences, during the 2016 Summer Research Program.



Brittany Rasch, of the Purdue DVM Class of 2019, examines slides related to breast cancer research being led by Dr. Sophie Lelièvre, professor of cancer pharmacology in the Department of Basic Medical Sciences.



PVM Scholar Repurposes Drugs as Antimicrobial Agents for Infections

A Purdue Veterinary Medicine faculty member in the Department of Comparative Pathobiology (CPB) has developed an innovative strategy to better treat bacterial and fungal infections while also lessening the length of the drug development process, saving years of expensive research. Associate Professor of Microbiology Mohamed Seleem leads a research team that uses novel drug repurposing methods to test if drugs already approved by the Federal Drug Administration (FDA) can have an effect on bacterial and fungal infections. The team already has discovered two drugs that have promise as potent antimicrobial agents for treating both superficial and invasive infections.

Dr. Seleem emphasized that the global health epidemic of bacterial and fungal resistance to conventional antibiotics requires immediate action. “In the United States alone more than two million individuals are stricken each year with infections caused by multidrug-resistant pathogens,” Dr. Seleem said. “Invasive fungal infections afflict millions of patients annually, resulting in nearly one-and-a-half

million deaths. The demand for antifungals is at an all-time high because current antifungal treatments aren’t working very well and can’t be administered very conveniently.”

While about 30 percent of drugs and vaccines newly approved by the FDA have been repurposed, Dr. Seleem said none have been tested and repurposed for use as an antifungal or antibacterial agent. His research team aims to change that by screening 3,200 of the 4,000 available approved drugs for activity against bacteria and fungi. “We take a drug that is being used for, say, heart disease and we re-use it as something like a topical ointment over the skin. The drug hasn’t changed, but the method of application and purpose has,” Dr. Seleem said. “We have ready information about the drugs from previous research for its initial purpose, but we conduct tests in the new model, since they have never been used as an antifungal or antimicrobial, to reveal any additional information we may need. We plan on buying the additional 800 drugs for testing.”

Through his research, Dr. Seleem already has identified two drugs, auranofin and ebselen, that can be repurposed as antimicrobial agents and also display antifungal mechanisms. The drugs are capable of killing intracellular Methicillin-resistant *Staphylococcus aureus* (MRSA), a bacterium that causes numerous difficult-to-treat infections in humans. “Through our trials we have found that these two drugs have the ability to disrupt adherent staphylococcal biofilms, the most frequent cause of infections originating in hospitals,” Dr. Seleem said. “We’ve found also that they suppress toxin production and key resentment factors and reduce excessive host-inflammatory responses associated with these toxins, significantly reducing bacterial load and enhancing wound healing.”

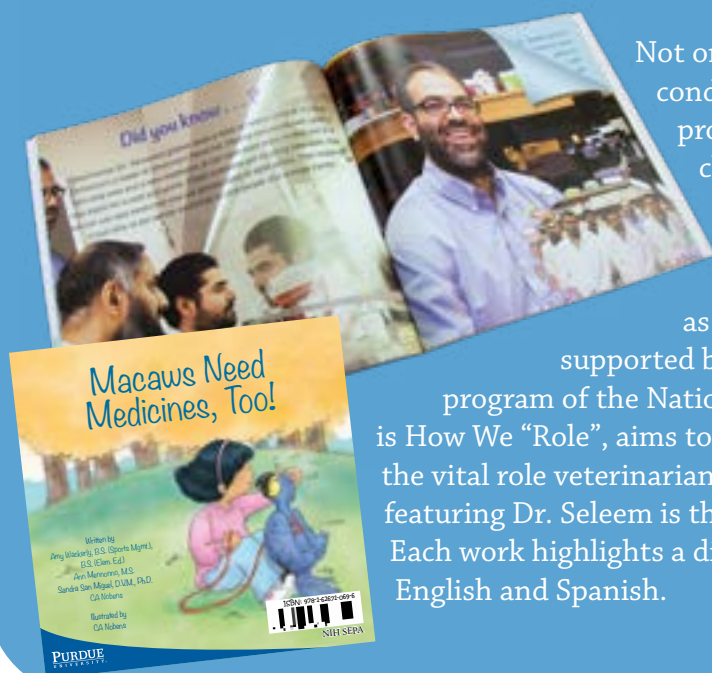
Besides the manifest benefits of treatment for bacterial and fungal infections, repurposing drugs for antimicrobial use outside of their current scope could benefit companies in other ways. “Repurposing existing approved drugs allows companies to bypass much of the preclinical work and early-stage clinical trials required for new compounds, thus cutting the cost associated with bringing a drug to the marketplace by as much as 40 percent,” Dr. Seleem said. “Given these drugs have already been tested in human patients, valuable information pertaining to their chemical parameters are known. This permits

a better understanding of the overall pharmacology of the drug, potential routes of administration and establishing an appropriate dosing regimen for patients.”

Dr. Seleem plans to also research repurposing drugs for the treatment of acne and toenail fungus. “Approximately 85 percent of people ages 12-24 suffer from at least minor acne, and current treatments aren’t always effective. Toenail fungus is prevalent in about 10 to 20 percent of the world population, and current treatment, which can take up to three years, is only effective in about 10 percent of those people,” he said. “So we want to start screening the causative agent of these conditions and hopefully find a treatment that is safe and effective that is already being used in other approved drugs to fast-track its availability to the market.”

Dr. Seleem’s innovation is patented through the Purdue Research Foundation Office of Technology Commercialization. The research has been funded by startup and university incentive grants, as well as a one-year, \$250,000 grant from the National Institutes of Health. Dr. Seleem is seeking additional funding to expand his research, and also is open to partnerships with companies that could use his research to move a drug into clinical trials for its new purpose.

CHILDREN’S BOOK SERIES SPOTLIGHTS VETERINARY HEROES *like Dr. Seleem*



Not only is Dr. Mohamed Seleem a veterinarian-scientist conducting groundbreaking research as a PVM associate professor of microbiology, he also is a role model for children who could one day follow in his footsteps as future veterinarians. That’s why Dr. Seleem is prominently featured in a new children’s book entitled “Macaws Need Medicines, Too!” published as part of a Purdue Veterinary Medicine led program supported by the Science Education Partnership Award (SEPA) program of the National Institutes of Health. The program, called This is How We “Role”, aims to increase elementary school students’ awareness of the vital role veterinarian-scientists play in keeping people healthy. The book featuring Dr. Seleem is the latest in a series published as part of the program. Each work highlights a different veterinarian-scientist and is printed in both English and Spanish.

PURDUE UNIVERSITY CENTER FOR ANIMAL WELFARE SCIENCE **LEADS WAY WITH NEW DOG BREEDING STANDARDS**



The director of Purdue University's Center for Animal Welfare Science, Dr. Candace Croney, was motivated to lead research that resulted in new, higher standards for the treatment of commercially bred dogs not just because she is a scientist. She is a dog owner and wants the best for her pet as well as all dogs.

Dr. Croney recognized that existing federally mandated minimum standards breeders must meet were just that—the minimum. “My guiding question has been is minimum standard good enough? Do we really want that?” Dr. Croney said. “Dogs deserve better than that. We can raise the bar. I would think all dog owners want that. The public wants it, too.”

Dr. Croney holds a joint appointment as associate professor of animal behavior and well-being in the College of Veterinary Medicine and associate professor of animal sciences in the College of Agriculture. Research she conducted with her colleagues at the Center for Animal Welfare Science during the past three years resulted in a new national certification program that sets rigorous standards for the care of dogs and puppies



by professional breeders. Canine Care Certified was announced in August in Las Vegas during a national conference of the pet care industry.

The voluntary program has been pilot-tested with 16 professional breeders since early 2015. Dr. Croney said every breeder in the pilot has shown improvement in the care of their dogs. She also explained that no other program sets standards as comprehensive as those provided by Canine Care Certified. The program exceeds other canine welfare programs and state and federal laws that often provide only a minimum level of standards and do not fully address areas such as dogs' behavioral needs, including socialization. Additionally, breeders seeking certification under Canine Care Certified must meet the criteria and pass a third-party audit of their operation. Other voluntary programs do not have substantive measurement and evaluation provisions. Further, the Canine Care Certified program is available to any breeder, regardless of size, that commits to meeting the standards, potentially expanding the program's scope. U.S. Department of Agriculture licensing only applies to breeders with a certain number of dogs.

Dr. Croney emphasized that the standards reflect the work of Purdue researchers from many areas. "The multidisciplinary expertise we have at Purdue is where the benefits of the research show up," Dr. Croney said. "The science involved in this certification program went beyond the basic treatment of dogs and the effects on their physical and behavioral well-being. It also took in the social sciences, including ethics. It's not only an animal-friendly program; it's also people-friendly."

Dr. Croney particularly appreciates how the research and certification program align with the three land-grant university missions of education, research and engagement with the public. The science-based program educates interested breeders and the public about best practices for the care and welfare of dogs and improves transparency about their treatment. "People often ask if we can do better for our dogs," Dr. Croney commented. "The answer is yes, we can. This program accomplishes that."

The new certification program got a noteworthy mention after it was announced at the pet care industry conference in Las Vegas. "Magic Johnson spoke after me, and gave a great shout-out to my presentation and Purdue," Dr. Croney said. "I have had a lot of positive experiences working as a scholar in this field, but it's hard to top that!"



(Pictured to the left) Dr. Candace Croney, director of Purdue University's Center for Animal Welfare Science, is pictured with her pet dog, Charley. Dr. Croney led research that resulted in new, more rigorous standards for commercial dog breeders.

(Pictured above) Dr. Croney catches a selfie with Magic Johnson, who was the next speaker after her announcement of the new Canine Care Certified program at the national pet care industry conference in Las Vegas.

FACULTY



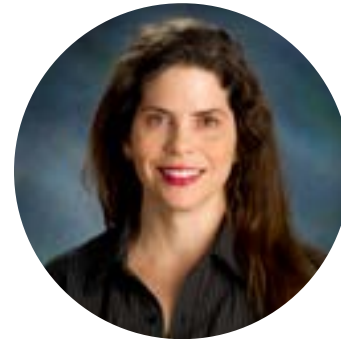
Welcome
to the family

PVM WELCOMES NEW FACULTY

The following faculty members joined the PVM family this past year:



Dr. Samuel Yingst (PU DVM '99) joined the Department of Comparative Pathobiology as assistant professor of molecular diagnostics October 1, 2015. In addition to this appointment, he is also head of the molecular diagnostics section in the Indiana Animal Disease Diagnostic Laboratory. Dr. Yingst earned his DVM degree from Purdue University in 1999 and completed his PhD at Purdue in 2003. He is board certified by the American College of Veterinary Microbiologists.



Dr. Jennifer Hess joined the Department of Veterinary Clinical Sciences as a visiting assistant professor in anesthesiology on February 1. Dr. Hess earned her DVM degree from Cornell University. She then completed a master's degree at the University of Illinois followed by a residency at the University of Illinois and Texas A&M University. Dr. Hess is board certified by the American College of Veterinary Anesthesia and Analgesia.



Dr. L. Tiffany Lyle joined the Department of Comparative Pathobiology as assistant professor of veterinary anatomic pathology on April 1. Dr. Lyle earned her DVM from the University of Georgia in 2008 before coming to Purdue University where she completed her PhD earlier this year. She is board certified by the American College of Veterinary Pathologists. Dr. Lyle runs the Comparative Blood-Brain Barrier Laboratory where her research focuses on molecular characterization of the blood-brain barrier in disease with a primary focus on the formation of the blood-tumor barrier in brain metastases of lung cancer.



Dr. Larry Hoscheit became a member of the Department of Veterinary Clinical Sciences' faculty when he was appointed clinical assistant professor of diagnostic imaging effective July 15. Dr. Hoscheit earned his DVM degree from the Western College of Veterinary Medicine at the University of Saskatchewan. He worked in private practice before coming to Purdue where he completed a residency in diagnostic imaging.



Dr. Talisha Moore became a member of the Department of Veterinary Clinical Sciences upon her appointment as visiting assistant professor of neurology on July 15. She earned her DVM degree in 2011 and PhD in 2013 from Mississippi State University before coming to Purdue University where she completed a residency program in neurology.



Dr. Federico Grosso joined the Department of Veterinary Clinical Sciences on July 25 as visiting assistant professor of diagnostic imaging. Dr. Grosso earned his DVM degree from the Faculty of Veterinary Medicine of Córdoba, Spain. He then went on to complete a residency program in diagnostic imaging at Utrecht University in the Netherlands. Dr. Grosso is board certified with the European College of Veterinary Diagnostic Imaging.



Dr. Dianne Little joined the Department of Basic Medical Sciences on August 15 as an assistant professor. Dr. Little earned her BVSc degree from the University of Liverpool in England. She then went on to complete a master's degree in specialized veterinary medicine and a PhD in physiology from North Carolina State University. Dr. Little continued with a post-doctoral fellowship in orthopaedic surgery at Duke University Medical Center, before transitioning to faculty in 2011. Dr. Little is board certified with the American College of Veterinary Surgeons (large animal surgery). Her research interests include tendon tissue engineering; pre-clinical models of osteoarthritis and tendinopathy; adult stem cell function and dysfunction in obesity and aging; and environmental effects on outcomes of regenerative medicine approaches.



Dr. Malathi Raghavan was appointed as clinical associate professor in the Department of Veterinary Administration and Director of Outcomes Assessment and Data Management effective August 15. Dr. Raghavan earned her DVM and master's degrees at the Ukrainian State Agricultural University in Kiev, Ukraine. She then completed a master's degree in natural resources and environmental conservation at the University of New Hampshire before completing her PhD in comparative epidemiology at Purdue University in 2002.



Dr. Andy Law joined the Department of Veterinary Clinical Sciences as clinical assistant professor of small animal orthopedic surgery August 1. Dr. Law earned his BVetMed degree from the National Chung Hsing University in Taiwan. He then completed a residency program at Mississippi State University before coming to Purdue.



Dr. Jennifer Koziol was appointed as clinical assistant professor of food animal ambulatory in the Department of Veterinary Clinical Sciences effective August 15. Dr. Koziol earned her DVM degree from Oklahoma State University followed by a master's degree at Auburn University. She is a diplomate of the American College of Theriogenologists.



Dr. Melissa Tropf became a member of the Department of Veterinary Clinical Sciences upon her appointment as clinical assistant professor of cardiology on September 6. She earned her DVM degree from The Ohio State University before completing a cardiology residency program and master's degree at Washington State University. Dr. Tropf is a diplomate of the American College of Veterinary Internal Medicine (cardiology). Her research interests include obesity related cardiac disease, arrhythmia and Holter monitoring.



Dr. Timm Gudehus joined the Department of Veterinary Administration on October 3 as clinical assistant professor of equine surgery. Dr. Gudehus earned his Dr. med. vet. degree from Technische Universitaet Muenchen in Munich, Germany. He then went on to complete a master's degree and residency program at Louisiana State University. Dr. Gudehus is board certified with the American College of Veterinary Surgeons and the European College of Veterinary Surgeons, as well as an accredited equine surgery specialist by the Bavarian Equine Board Committee in Germany. He will serve as the lead equine surgeon at the Centaur Equine Specialty Hospital, PVM's equine satellite facility in Shelbyville, Ind., when it opens early in 2017.

PVM HONORS

RETIRING CLINICIAN & LIBRARIAN



PVM students gather with Dr. Mark Hilton, who holds a photo collage autographed by students and presented at his retirement reception.

Two well-known personalities in the Purdue Veterinary Medicine family were honored at receptions held in recognition of their retirement this past year. Dr. Mark Hilton, clinical professor of food animal production medicine was recognized for his contributions to the College and the veterinary medical profession throughout his 18 years of service to Purdue during a reception April 29. Gretchen Stephens was honored on the occasion of her retirement as veterinary medical librarian and associate professor of library science after a nearly 40 year career at Purdue University during a reception June 28.

Dr. Hilton earned both his bachelor's degree in animal sciences and his DVM degree at Purdue in 1980 and 1983, respectively. He then worked in private practice at the DeWitt Veterinary Clinic in DeWitt, Iowa, where he served as an associate veterinarian and then co-owner until 1998, when he returned to Purdue. During that time he also became board certified in the Beef Cattle Specialty by the American Board of Veterinary Practitioners (ABVP). He began his Purdue career as a staff veterinarian in beef production medicine and then in 2004 became a clinical assistant professor. He was promoted to clinical associate professor in 2006 and then clinical professor in 2012.

Named one of the 20 most influential cattle veterinarians in North America by "Bovine Veterinarian" magazine, Dr. Hilton is nationally and internationally recognized for his expertise in beef production medicine and in 2009 he received the Western Veterinary Conference Continuing Lecturer of the Year Award. Also known for being passionate about teaching, Dr. Hilton received many teaching honors including the Weedon Faculty Award, the Outstanding Teacher Award for the Veterinary Technology Program and the Raymond E. Plue Outstanding Teacher Award. Upon his retirement, Dr. Hilton embarked on another phase of his career, joining Elanco Animal Health as Beef Cow/Calf Technical Services Veterinary Consultant May 23.

Gretchen Stephens' Purdue career started in 1977, just a year before current dean, Willie Reed, arrived at the College of Veterinary Medicine as a graduate student. "It's hard to think of Purdue Veterinary Medicine without Gretchen," Dean Reed said. Remembering the arduous task of conducting literature reviews in those earlier years, Dean Reed recalled the many trips he made as a graduate student to the library in Lynn Hall, and how helpful Gretchen was. "What I remember the most was, what we see today, this beautiful smile and the kindness she always exuded and the professionalism she always brought to her job."

Purdue Libraries Associate Dean for Academic Affairs Tomalee Doan commended Gretchen for her longstanding commitment to developing an outstanding collection in veterinary medicine at Purdue. She also noted Gretchen's service on Purdue Libraries teams and committees, her work in developing web resources for the applications and integrations courses, and her most recent role in developing the bibliographic library for HABRI Central, the online resource hub for information and research on the human-animal bond. Purdue Dean of Libraries James Mullins added, "For nearly 40 years Gretchen has been the face of the Libraries that our colleagues in vet med knew, appreciated and loved. Her persistence and attention to detail was appreciated by all; everyone knew that no stone would be left unturned until the appropriate bit of information to assist answering a research problem or integrating into a paper was identified."



Dean Willie Reed presents a framed picture of the Continuum sculpture to Veterinary Medical Librarian Gretchen Stephens in honor of her retirement.

IN MEMORY

Purdue Veterinary Medicine family mourns the passing of Drs. Huse, Carlton and Hinsman.



Dr. David C. Huse (PU DVM '77), clinical assistant professor of comparative and applied anatomy in the Department of Basic Medical Sciences, died October 30 at the age of 63. After earning his Purdue DVM degree in 1977, Dr. Huse completed a small animal rotating internship at Cornell University and a small animal surgery residency at the University of Illinois. He first joined the PVM faculty in 1983, when he was appointed as assistant professor of small animal surgery in what was then the Department of Small Animal Clinics. He held that position until 1988, after which his career took a turn as he completed a bachelor's degree at the Indiana University School of Medicine in 1989 and became a nuclear medicine technologist at Riley Children's Hospital in Indianapolis. He returned to Purdue in 2006 as a visiting assistant professor teaching in the junior surgery lab and the applications and integrations (A&I) courses, as well as helping to supervise in the ICU. In 2009, he was appointed as clinical assistant professor in Basic Medical Sciences and taught anatomy for the department. An award winning teacher, Dr. Huse was well-loved by students and colleagues alike. His honors included receiving the PVM Alumni Outstanding Teaching Award in 2009 and the Carl J. Norden-Pfizer Distinguished Teaching Award in 2008. He also played an active role in the life of the College, from serving on the Academic Standards, Scholarships and Awards Committee and the A&I team, to participating in various events and activities, including skits and talent shows.



Professor Emeritus Edward (Ed) Hinsman, one of the College's founding faculty members, died May 14 at the age of 81. Dr. Hinsman came to Purdue in 1959, when the College enrolled its first class of veterinary students. He was appointed initially as an instructor of veterinary anatomy, and then was promoted to assistant professor in 1963, associate professor in 1966 and full professor in 1970. Dr. Hinsman earned both his bachelor's and DVM degrees at Michigan State University in 1956 and 1958, respectively, and then earned his PhD at Purdue in 1963. During his Purdue tenure, Dr. Hinsman served as acting head of the Department of Veterinary Anatomy, which later became part of the Department of Basic Medical Sciences, and also was an adjunct professor of anatomy for the Indiana University School of Medicine. As a faculty member who loved teaching, research and working with students, Dr. Hinsman received numerous teaching awards and was inducted into the Purdue University Book of Great Teachers. He also was honored by being included in the Wall of Fame Tribute by the Indiana University School of Medicine.



Dr. William (Bill) Carlton, Leslie Morton Hutchings Distinguished Professor Emeritus of Veterinary Pathology, died March 24 at Bethesda Memorial Hospital in Boynton Beach, Fla. He was 86. A veterinarian who earned his PhD degree at Purdue and became a diplomate of the American College of Veterinary Pathologists (ACVP), Dr. Carlton served 28 years on the Purdue Veterinary Medicine faculty and was one of three co-founders of the Purdue Comparative Oncology Program. He also was considered one of the intellectual founders of toxicologic pathology and became a preeminent educator in the field. Dr. Carlton received an honorary Purdue Doctor of Science degree in 2000 and was honored by the Society of Toxicologic Pathology in 2006, when he received the organization's first Achievement Award recognizing the contributions of a scientist who significantly influenced the discipline of toxicologic pathology. He also held leadership positions in the International Academy of Pathology, American Association of Pathologists, American Association of Avian Pathologists and the American College of Veterinary Pathologists, as well as the Society of Toxicology.

ENGAGEMENT

2016 PURDUE VETERINARY CONFERENCE

ATTRACTS STRONG
TURNOUT FOR CE
AND CELEBRATION



Veterinarians and veterinary technicians took advantage of the 2016 Purdue Veterinary Conference, September 27 – October 1, to get top quality continuing education and participate in a variety of special events. The conference week doubled as the homecoming for the College with opportunities to honor reunion classes, outstanding faculty and alumni and the 40th Anniversary of Purdue Veterinary Medicine's Veterinary Technology Program.

Offering up to 32 continuing education (CE) credits, the conference attracted nearly 1,140 registered attendees, including 287 veterinarians, 166 veterinary technicians, 190 PVM faculty, staff and faculty emeriti, 211 PVM students and 155 guests and other professionals and students. Conference sessions were led by 55 speakers and moderators who conducted 110 CE sessions, including eight specialty workshops and labs, while the Exhibit Hall in the Purdue Memorial Union South Ballroom featured booths staffed by 74 exhibitor representatives.

New Purdue Veterinary Conference sessions for 2016 included the Diversity Keynote with Garnetta Santiago, MA, LVT, veterinary technician strategy lead for Hill's Pet Nutrition, Inc., who gave a presentation entitled, "50 Shades of Reality: Cultural Competency in the Changing Face of Veterinary Medicine," and led an interactive workshop with Paige Allen, MS, RVT, who serves as PVM distance learning instructional technologist. Special labs offered for the first time at the conference included the Radiology Lab and two hands-on training opportunities—the Physical Therapy Lab and Small Mammal Dental Lab.

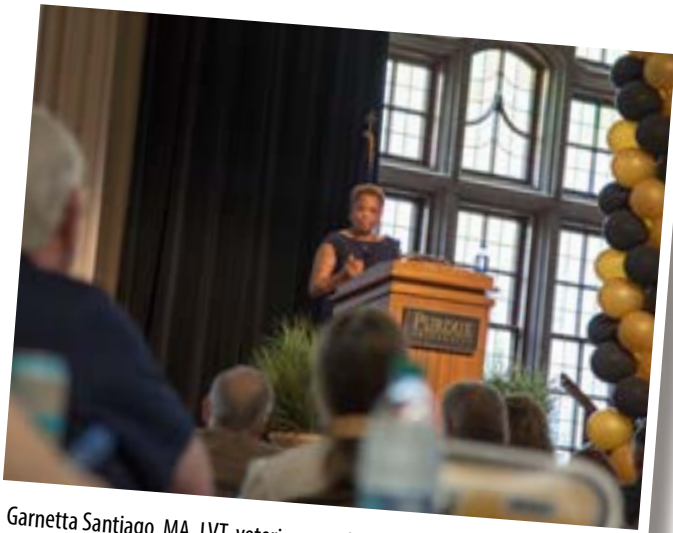
The annual Dr. Jack and Naomi Stockton/Class of 1971 Lecture featured a presentation by Dr. Debbie White (PU DVM '94), a small animal and exotic animal practitioner in Las Vegas, Nev., who is a regular veterinary contributor on local news and national radio programming. She spoke on the topic, "Mentorship: Take the Gamble!"

The general public had an opportunity to learn about animal welfare by attending the free Elanco Human-Animal Bond Lecture given by Dr. Candace Croney, director of the Purdue University Center for Animal Welfare Science. Her talk, entitled, "Friends, Family or Food? Factors Shaping Perceptions of Animals and Their Welfare Implications," gave the audience insight into how such factors as economics, knowledge, experience, history, culture, religion, demographics and urbanization affect attitudes about animals.

Veterinary Technology Program's 40th Headlines Special Events

A variety of special events also were held as part of the conference week, which kicked-off with the Indiana Animal Health Foundation/PVM golf outing Tuesday, September 27, followed by a special breakfast and lecture Wednesday morning, September 28, celebrating the Purdue Veterinary Technology Program's 40th Anniversary. Sponsored by the Purdue Veterinary Alumni Association, the breakfast began with opening remarks by Becky Bierman, RVT, clinical trials coordinator for the College's Center for Comparative Translational Research, and a member of the Veterinary Technology Program's first graduating class, the Class of 1976. Then Dr. Pete Bill, assistant dean for academic affairs, teaching and learning and professor of veterinary pharmacology, gave the Dr. Roger L. Lukens Lecture, speaking on the topic, "Veterinary Technology Profession at a Crossroads: Where Do We Go?"

The named lecture honors the late Dr. Roger Lukens, Purdue Veterinary Medicine professor emeritus of veterinary technology and founding director of the Veterinary Technology Program. Dr. Bill described Dr. Lukens as "...one of the earliest pioneers and advocates for veterinary technicians." Addressing the present and future of veterinary technology, Dr. Bill stressed the importance of staying involved and not becoming complacent. "Veterinary technicians have the opportunity to mold what their profession can do," Dr. Bill said. "At 40 years old, we need to make sure the profession is strong, has a focused voice and that it advocates for veterinary technicians throughout the state." Reminding the audience of the efforts of dedicated veterinary professionals, like Dr. Roger Lukens, who successfully launched the veterinary technology profession, Dr. Bill concluded, "Don't just pay your dues—bring your passion. Bring your ideas. Bring your desire for the profession to grow to new levels of respect and opportunity. Lead, change, grow and never give up."



Garnetta Santiago, MA, LVT, veterinary technician strategy lead for Hill's Pet Nutrition, Inc., gives the Diversity Keynote in the Purdue Memorial Union North Ballroom during the 2016 Purdue Veterinary Conference.

Reunion Classes Honored at Medicine Mixer

The popular Meet Me @ the Mixer reception on Thursday, September 29, provided another setting for celebrating the 40th Anniversary of the Veterinary Technology Program, as well as honoring alumni celebrating class anniversaries. Dean Willie Reed welcomed representatives from many of the vet tech classes and presented them with a certificate commemorating the anniversary. Purdue Veterinary Medicine retiree Harry Latshaw, a registered veterinary technician who served on the Veterinary Technology Program's staff as an instructor and student advisor for many years, spoke about the program's remarkable history and reminisced about



Alumni enjoy viewing scrapbooks spanning years of Purdue Veterinary Technology classes at the Meet Me @ the Mixer reception, which included recognition of reunion classes and celebration of the Veterinary Technology Program's 40th Anniversary.

his own time working with the veterinary technology students. "This program prepares technicians for practice, industry, research, public health, practice management and even owning businesses," he said. "I don't think there's a better program in the country. We need to be proud of these alumni that PVM has graduated into the profession."

Dean Reed also announced each alumni class anniversary year, and paid special tribute to the 25th and 50th reunion classes. Dr. Jerry Rusch, of the DVM Class of 1991, spoke on behalf of his classmates, announcing that they are raising funds for a relaxation area for students, staff and faculty in Lynn Hall to promote wellness. Members of the 50th Anniversary Class, the Class of 1966, also were honored as they were introduced individually by Dean Willie Reed, and received a special 50th Anniversary Class medallion from the Purdue Veterinary Alumni Association. Class member and Purdue Veterinary Alumni Association board member Allen Lueking shared reflections on behalf of his classmates. "It's a great honor to be classmates with this bunch. They're a sharp bunch and I think we've all enjoyed the experience," said Dr. Lueking.

Awards Celebration Honors Outstanding Alumna and Faculty

Another longstanding Purdue Veterinary Conference tradition, the annual Awards Celebration on Wednesday, September 28, in the Purdue Memorial Union North Ballroom, began with an award presentation that was especially appropriate on the occasion of the 40th Anniversary of the Veterinary Technology Program. Dean Willie Reed presented the 2016 Distinguished Veterinary Technology Alumna Award to Alicea (Schaeffer) Howell, who earned her bachelor's degree in Veterinary Technology in 2003 and accepted a position as a veterinary technician at Hillview Veterinary Clinic in Franklin, Ind., where she is still employed. She also received animal training certification through the Karen Pryor Academy for Animal Training and Behavior and achieved the distinction of Veterinary Technician Specialist in Animal Behavior in 2010.

Dean Reed then presented awards for outstanding teaching, research and service to PVM faculty members. The Alumni Faculty Award for Excellence was presented to Dr. Gary Lantz, professor of small



Dean Willie Reed with several faculty award recipients (left-right) Dr. Gary Lantz, professor of small animal surgery; Dr. Wendy Townsend, associate professor of ophthalmology; Dr. Dan Hogan, professor of cardiology; Dr. Paula Johnson, clinical assistant professor of emergency and critical care; and Dr. Stephanie Thomovsky, clinical assistant professor of neurology and neurosurgery.

animal surgery, who was selected as a nominee by a committee of faculty and alumni. Dr. Lantz joined the Purdue Veterinary Medicine faculty in 1979 and became a diplomate of the American College of Veterinary Surgeons in 1983 and a diplomate of the American Veterinary Dental College in 2002. The award recognized him for his excellence in scholarship, learning and engagement through innovative research, outstanding teaching and leadership in Veterinary Clinical Sciences as well as professional organizations.

Next Dean Reed presented three outstanding teacher awards. Dr. Stephanie Thomovsky, clinical assistant professor of neurology and neurosurgery and director of the Veterinary Teaching Hospital's physical rehabilitation service, received the PVM Alumni Outstanding Teacher Award. Dr. Thomovsky joined the College's Department of Veterinary Clinical Sciences in 2014 and teaches neuroscience to first-year veterinary students and neurology and neurosurgery to third- and fourth-year veterinary students, interns and residents. The Zoetis Distinguished Teaching Award was presented to Dr. Kevin Hannon, associate professor of basic medical sciences, who teaches anatomy to veterinary and veterinary technology students and has been a member of the Department of Basic Medical Sciences since 1996. Dr. Wendy Townsend, associate professor of ophthalmology, received the Excellence in Teaching Award, which is sponsored by the College and awarded on the basis of nominations made

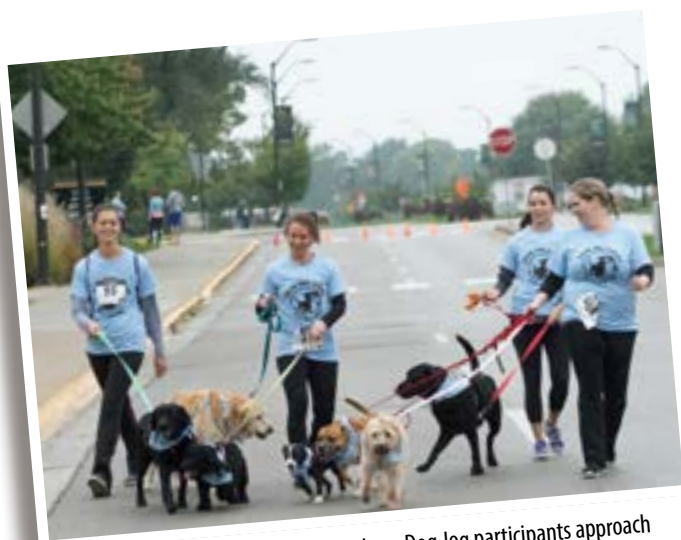
by peers. Dr. Townsend joined the PVM faculty in 2010 and teaches both ophthalmology and client communications to veterinary students, interns and residents.

Dean Reed then presented three faculty awards for excellence in research. Dr. Dan Hogan, professor of cardiology, received the Zoetis Award for Veterinary Research Excellence. His research focuses on thrombosis and non-invasive interventional cardiology. The Excellence in Research Award, sponsored by the College, was shared by two faculty, Dr. Suresh Mittal, professor of virology in the Department of Comparative Pathobiology, and Dr. Paul Robinson, professor of cytomics in the Department of Basic Medical Sciences, who also holds appointments as professor in the Weldon School of Biomedical Engineering and adjunct professor in the Indiana University School of Medicine. Dr. Mittal is a world renowned expert on recombinant adenoviruses who developed adenoviral vector-based vaccines against highly pathogenic avian influenza and has engineered adenoviruses for use in gene therapy for cancer. Dr. Robinson works at the interface between life sciences and engineering and is a world renowned expert in flow cytometry and high throughput imaging.

The Award Celebration concluded with the presentation of the PVM Excellence in Service Award to Dr. Paula Johnson, clinical assistant professor of emergency and critical care in the Department of Veterinary Clinical Sciences. Since coming to Purdue, Dr. Johnson has guided the College's critical care service and spearheaded numerous improvements.



The Physical Therapy Lab, held in Lynn Hall, gave Purdue Veterinary Conference attendees hands-on learning opportunities.



Dogs lead the way as 2016 Dr. Skip Jackson Dog Jog participants approach the finish line in front of Lynn Hall.

Dog Jog Raises \$7K as Dogs and Joggers Flock to Event

The Purdue Veterinary Conference week wrapped up with the wildly popular Dr. Skip Jackson Dog Jog on Saturday, October 1. Thanks to an outstanding turnout, the annual event, sponsored by McAfee Animal Hospital and Blair Animal Clinic, raised \$7,000 to support Purdue Veterinary Medicine's PetSafe and Priority 4 Paws programs. PetSafe is a community service to meet the short-term housing needs of pets whose owners are temporarily unable to provide care. Priority 4 Paws (P4P) is a service learning program that utilizes a mobile surgery unit to visit Indiana animal shelters and spay and neuter pets up for adoption free of charge.

Nearly 250 runners participated in the Dr. Skip

Jackson Dog Jog, along with more than 100 canine companions! A big thank you to event organizer Marcus Dela Cruz, of the DVM Class of 2018, and to all the students who volunteered to help with the race and make it such an outstanding success. The event is named in honor of Dr. Horace (Skip) Jackson, professor emeritus of veterinary physiology and biochemistry, and is one of the longest-running traditions of the Purdue Veterinary Conference. Once again, Dr. Jackson was on-hand for the event, as he has been nearly every year since the first Dr. Skip Jackson Road Race was held in 1972.

Photos of the following events were taken by professional photographer Ed Lausch and can be viewed at www.lauschphotography.com, using the following usernames and passwords.

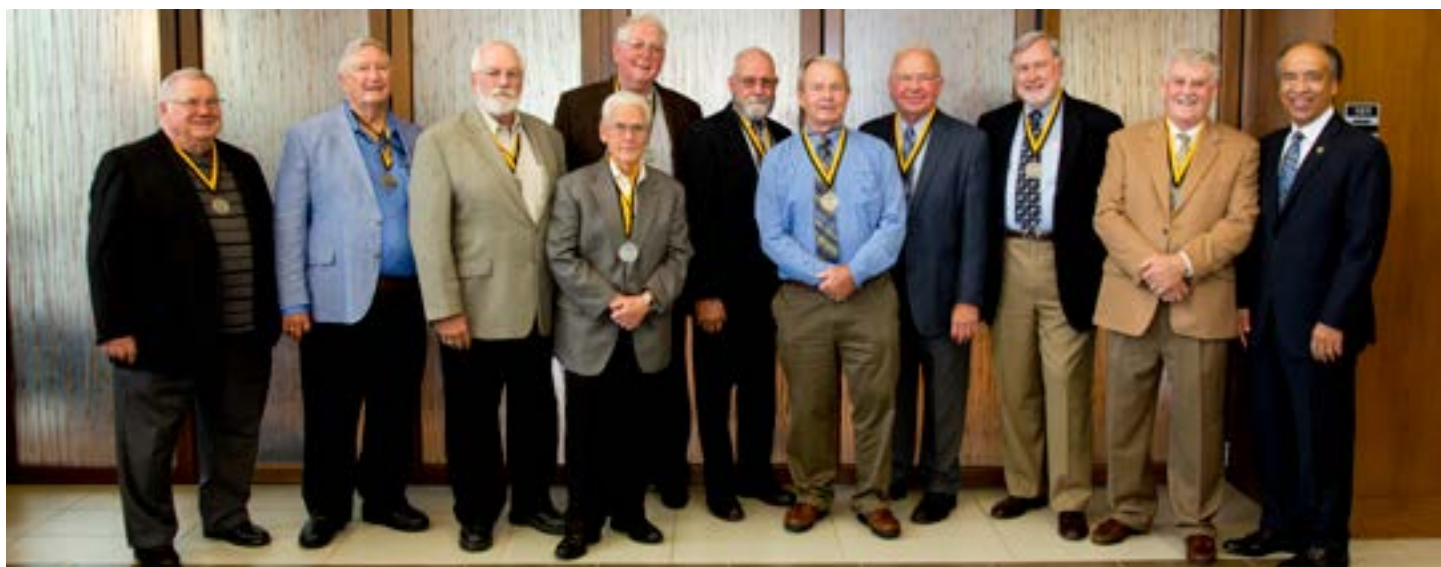
Awards Program: username "2016awards" and the password "september2016".

Meet Me @ the Mixer: "2016mixer" and the password "september2016".

Dr. Skip Jackson Dog Jog: username "2016dogjog" and the password "october2016".

Pictured on pages 37-38: Conference-goers crowd the popular Exhibit Hall in the Purdue Memorial Union South Ballroom during the Purdue Veterinary Conference.

Pictured below: Dean Willie Reed with the Golden Anniversary Class at the Class of 1966 50th Reunion Dinner, which was held in the John Purdue Room at Marriott Hall.



VETERINARY PRACTICE MANAGEMENT PROGRAM Open House Draws Attention @ PURDUE VETERINARY CONFERENCE



Dr. David Schoorman, Krannert professor of management and associate dean for executive education and global programs, engages with VPMP participants during his class on human resources management.

By Kelsey Johnson

Attendees at the 2016 Purdue Veterinary Conference had the chance to check out the Veterinary Practice Management Program (VPMP) during a special open house and networking lunch as the conference was wrapping up Friday, September 30. Interested conference-goers were able to spend part of their day in the Krannert Center networking with a current cohort of VPMP participants. They also were able to attend a class taught by Krannert Professor and Associate Dean for Executive Education and Global Programs David Schoorman, focusing on motivation and human resources management, and get additional information about the program at a Q&A session.

Bridget Weast, a conference attendee from Sellersburg, Ind. and graduate of the Purdue Veterinary Technology Class of 2007, saw the VPMP option in the conference program



Bridget Weast (PU AS-VT 2007), of Sellersburg, Ind., took advantage of the VPMP Open House and networking session.

and decided to attend. “I think it’s very interesting. I’ve gotten a lot of great information just from the little bit that I’ve heard today,” said Bridget. “It’s very applicable to the industry, and applies even outside of veterinary medicine, too. I would choose to do this program.”

VPMP is a professional development program that draws participants from across the country and all areas of the veterinary profession. They join a cohort of colleagues that meets during four weekends spanning 18 months to cover modules on human resources management, accounting and financial management, marketing management and strategic thinking. The members of the newest cohort began their first weekend together on Thursday, September 29, covering the human resources management module. Though their classes have just started, they can already see the value of the program. Emily Dempsey, a staff member at Pleasantville Animal Hospital in New York and current student in the Purdue University College of Veterinary Medicine’s Veterinary Technology Distance Learning Program, had been considering practice management for a



Emily Dempsey, a staff member at Pleasantville Animal Hospital in New York, is a current VPMP student.

while when she heard about VPMP. “I’m definitely learning a lot. I feel a lot more comfortable with the knowledge that I already have and expanding on it,” said Emily. “It’s been great and I think I will gain

the skills I need to transition to practice manager.”

VPMP involves a collaboration between Purdue Veterinary Medicine and the Krannert School of Management. Recognizing the value of VPMP for veterinary students as well as practitioners, the College of Veterinary Medicine awarded scholarships



Alexandra Osborne, of the DVM Class of 2019, is one of five second-year DVM students awarded a scholarship to enroll in the VPMP program.

to five second-year Purdue DVM students so they could enroll in the graduate-level professional development program. One of those recipients, Alexandra Osborne, said she chose to pursue the certificate program to

expand upon her largely science-based background.

“I’ve always considered eventually becoming a

practice owner at some point, so I think it’s better to learn how to do that sort of thing now as a base to build upon later,” Alexandra said. “Even from the first few classes in this first module, I’ve picked up on a lot and been able to meet a number of other people with varying backgrounds and positions in practices. You get a lot of different views that you had never thought of—I’m going into this program from the perspective of a DVM, but we also have practice managers and vet techs and other positions here, too. I really like that.”

Another scholarship recipient, Cody Land, serves as president-elect of Purdue Veterinary Medicine’s Chapter of the Veterinary Business Management Association and enrolled in VPMP to learn more about the subject. “I think that with veterinary medicine, you can control your destiny more and business is a large part of that, and yet I feel the subject is underutilized or under-taught in veterinary school curricula,” Cody explained. “VPMP has been great so far. Dr. Schoorman’s lectures are very engaging—everything that he says just makes sense to me intuitively and I don’t feel like I’m in a lecture. He applies things and makes them applicable to the real world.”

The VPMP cohort that started in September will return to Purdue in January for the next module of the program.



VPMP scholarship recipient Cody Land, of the DVM Class of 2019, is president-elect of the PVM Chapter of the Veterinary Business Management Association.

To learn more about VPMP, visit the VPMP website (vet.purdue.edu/vpmp) or contact VPMP Program Manager Cara Cray by phone at (765) 496-6166 or email at ceasterb@purdue.edu.



The 30 participants in the newest cohort of the Veterinary Practice Management Program started their first weekend module at Purdue in conjunction with the Purdue Veterinary Conference September 29.

AAVMC 50TH ANNIVERSARY CELEBRATION

Includes Recognition of PVM Personalities

The Association of American Veterinary Medical Colleges (AAVMC) concluded a year-long celebration of its 50th Anniversary with a grand Gala Celebration in Washington, D.C. that featured special recognition of dignitaries with Purdue Veterinary Medicine ties. Formed in 1966 by the deans of the then 18 U.S. and three Canadian veterinary colleges, the AAVMC today represents 49 accredited veterinary medical colleges in the United States, Canada, Europe and Australia, seeking to protect and improve the health and welfare of animals, people and the environment around the world by advancing academic veterinary medicine. The 50th Anniversary Celebration coincided with the organization's annual conference in March.

Of particular note during the 50th Anniversary events was the announcement that the AAVMC Recognition Lecture is being renamed the Billy E. Hooper Lecture Award for Distinguished Service to Veterinary Medical Education, in honor of the former Purdue Veterinary Medicine faculty member and administrator. Dr. Hooper earned his master's and PhD degrees in veterinary pathology at the Purdue University College of Veterinary Medicine in 1963 and 1965, respectively, and later joined the PVM faculty and served as associate dean for academic affairs. His distinguished career also included faculty appointments at the University of Missouri, University of Georgia and Oklahoma State University. The renaming

of the AAVMC Recognition Lecture honors Dr. Hooper for the founding role he played as the AAVMC's first executive director and as a former editor of the Journal of Veterinary Medical Education.

Another conference highlight was the presentation of the 2015 AAVMC Distinguished Teacher Award to Purdue

Veterinary Medicine Assistant Dean for Academic Affairs, Teaching and Learning Pete Bill. The award, presented by Zoetis, is regarded as the most prestigious national teaching award in veterinary medicine and honors educators whose sustained record of teaching excellence and ability, dedication, character and leadership has contributed significantly to the advancement of the profession. Dr. Bill, professor of veterinary pharmacology in the Department of Basic Medical Sciences, has received numerous teaching honors and, for more than 25 years, has consistently been recognized by students for his outstanding teaching ability, infectious enthusiasm and engaging teaching style.

The AAVMC Annual Conference culminated with the 50th Anniversary Gala Celebration Saturday, March 5, that attracted more than 300 guests, including



Dr. Billy Hooper, former PVM associate dean for academic affairs, (right) with a fellow early AAVMC leader, Dr. John Welser, and AAVMC President Eleanor Green, dean of the Texas A&M College of Veterinary Medicine, at the AAVMC 50th Anniversary Gala Celebration.

friends from the veterinary medical community, business and government. The milestone event began and ended with the introduction of two new AAVMC videos: “We are the AAVMC!”, which is a two-minute graphical piece that describes the organization’s direction and values; and “Let’s Hear From a Few of our Friends,” which includes comments from PVM Dean Willie Reed and other past and present AAVMC leaders and friends who talk about the value of the organization, its achievements and future directions. The videos can be viewed along with a full recap of the AAVMC 50th Anniversary on the AAVMC website at aavmc.org/Anniversary/50th-Anniversary-Celebration.aspx. Look for the icons for the videos at the bottom of the 50th Anniversary Celebration web page.

With the theme “Fifty and Forward,” the 2016 AAVMC Conference also included the public release of the book entitled “Pathways to Progress,” which chronicles the story of the AAVMC and academic veterinary medicine and includes chapters on each of the veterinary schools in the U.S., including Purdue Veterinary Medicine. As a nonprofit membership organization, the AAVMC now represents more than 4,000 faculty, 5,000 staff, 10,000 veterinary students and 3,000 graduate students at its member institutions, which include all 30 U.S. veterinary medical colleges and all five Canadian colleges of veterinary medicine.



AAVMC President Eleanor Green (left) with Dr. Pete Bill, PVM assistant dean for academic affairs, teaching and learning, who received the 2015 AAVMC Distinguished Teacher Award, presented by Dr. Christine Jenkins of Zoetis.



Dean Willie Reed and his wife, Dorothy, join in the AAVMC's 50th Anniversary toast at the Gala Celebration.

GIVING

EVER TRUE

THE CAMPAIGN FOR PURDUE UNIVERSITY

***Ever True:* PVM Alumni and Friends Demonstrate Support and Loyalty**

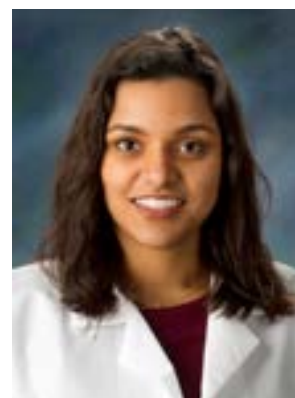
“Ever True: The Campaign for Purdue University” is an invitation to the Purdue family to join together, through private giving and personal involvement, to boldly advance the University as a national and global leader that continues to move the world forward. The Purdue University College of Veterinary Medicine’s goal as part of the campaign is \$40 million. Thanks to the generosity of the College’s alumni and friends, a total of \$28.2 million, or 70 percent of the goal, has been raised to date. The campaign spans the period of July 1, 2012 through June 30, 2019, concluding in the University’s 150th anniversary year. With a total campaign goal of \$2.019 billion, Ever True is the largest fundraising effort in Purdue history.

Central to the campaign is increased funding for student scholarships, which addresses the top campaign priority to “Place Students First.” That’s an emphasis that resonates with Purdue Veterinary Medicine Dean Willie Reed and his wife, Dorothy, assistant dean for engagement in Purdue’s College of Education. Together, they have established two endowed scholarship funds. “We encounter so many students who have dreams and aspirations, and we don’t believe money should be an obstacle to fulfilling them,” Dean Reed said. “We had dreams too, and we are happy to do our part. And we like to see people

achieving their dreams.”

In 2012, the Reeds created the Willie and Dorothy Reed Student Leadership Scholarship by leveraging Purdue’s “Indiana Challenge Match,” which helped donors meet the \$25,000 minimum necessary to establish a scholarship endowment by matching a cash gift of \$12,500. “I know personally how rewarding it can be to give such a gift,” Dean Reed commented. “Dorothy and I accepted that challenge and made our own contribution to create a new veterinary student scholarship endowment.”

That endowment came to fruition in the past year, and the first Reed Student Leadership Scholarship was awarded to senior veterinary student Alyssa Haithcox. A native of Osceola, Ind., Alyssa plans to go into mixed animal practice after graduation next May. “I appreciate the generosity of Dean Reed and Dr. Dorothy Reed,” Alyssa said. “They have given me the opportunity to have one less worry by providing



Alyssa Haithcox
DVM Class of 2017

me with this scholarship. Being a scholarship recipient is that much more special when you consider the donors to be role models and mentors.”

Early in 2016, the Reeds seized a new opportunity to support underrepresented minorities: the Targeted Scholarship Match Opportunity established by the Purdue Research Foundation in partnership with the University. The 1:1 matching gift program specifies scholarship support for women and/or underrepresented minorities, with a preference for incoming first-year students.

Utilizing the matching gift opportunity, the Reeds established the Dorothy and Willie Reed Scholarship Endowment, designating 50 percent of the distributions for African-American undergrads in the College of Education with a preference for first-year students participating in the Students in Education Enhancing Diversity (SEED) Program. Remaining revenue will be used for scholarships for any underrepresented minority students enrolled in the College of Veterinary Medicine. Preference will be given to students who are Access to Animal-Related Careers (A²RC) Program scholars. Coordinated through PVM’s Office for Diversity and Inclusion, the A²RC program brings pre-veterinary students from around the country to Purdue for two weeks each May to partially experience the life of a first-year DVM student.

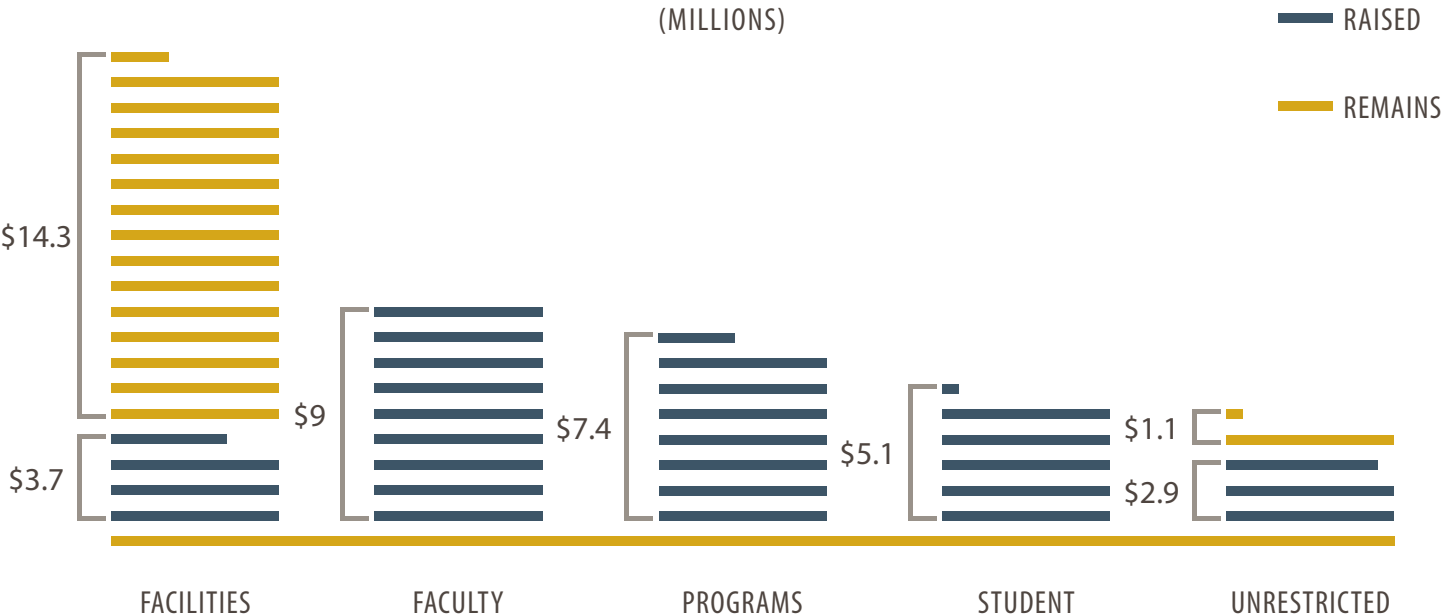
The commitment that Drs. Willie and Dorothy Reed have demonstrated to education, inclusion, equality and opportunity through their establishment of these new scholarships reflects the highest ideals of “Ever True: The Campaign for Purdue University”, and mirrors the generosity and support of the Purdue Veterinary Medicine family. The College is honored to recognize on the following pages those donors who made gifts to Purdue Veterinary Medicine during the preceding fiscal year, which ended June 30, 2016.



Pictured above: Drs. Willie and Dorothy Reed

PVM: EVER TRUE CAMPAIGN PROGRESS

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Canine Related Fundraisers

Nick Sparks of Nashville, Tenn. is an active canine agility judge and his Sheltie, Fiona, is a multiple national title holder in canine agility. Together, they even have hosted a national TV show on canine agility. However, in 2015, Fiona's career was nearly put on-hold when she was diagnosed with terminal bladder cancer. Nick received a recommendation to bring Fiona to Purdue Veterinary Medicine's Dolores L. McCall Professor of Comparative Oncology Deborah Knapp, who is co-section head of oncology in the Veterinary Teaching Hospital (VTH) and director of the Purdue Comparative Oncology Program (PCOP).

When Fiona had her first appointment at the VTH, she was within days or weeks of passing. She had surgery immediately and continued chemotherapy. One month later, Fiona was participating again in agility competitions, and in March 2016 she finished her Century Standard title in the American Kennel Club (AKC). As a "Thank You" to Dr. Knapp and the Purdue University Veterinary Teaching Hospital, Nick hosted a fundraiser to help with research on finding a cure for canine bladder cancer. For Fiona's 10th

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Support PVM Canine Cancer Research

birthday on April 26, 2016, a GoFundMe page was set up and \$2,846.13 was raised to help Dr. Knapp's bladder cancer research.

2016 also marked the tenth year that dog lovers have gathered in Hopewell Junction, N.Y., to walk with their canine companions in memory of a dog named Mickey and support Purdue Veterinary Medicine canine cancer research. On Saturday, June 11, the Mickey's Mile Dog Walk for Canine Cancer Research raised \$5,363, bringing the total amount raised over the walk's ten-year span to more than \$55,000. Camille Vassari has been organizing Mickey's Mile as a tribute to her West Highland Terrier, Mickey, since 2007. Mickey was ten years old when cancer claimed his life, inspiring Camille to start the walk to raise awareness and funds around Mickey's birthday, May 26.



PLANNED GIVING

We would like to honor alumni and friends who have designated the College of Veterinary Medicine as the beneficiary of a bequest, trust, retirement plan or life insurance policy, or have made other estate provisions for the College. We recognize these individuals who are committed to providing for the College's future by their thoughtful and planned approach.

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Anonymous 2

Anonymous 3

Anonymous 4

Anonymous 5

Anonymous 6

Anonymous 7

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IN MEMORIAM PROGRAM

The PVM In Memoriam Program provides a way for friends and family to express sympathy and comfort for grieving owners. Additionally, veterinary clinics may participate in the program to pay tribute to their clients and the loss of their patients. We recognize that there is a special bond between humans and animals and this program allows us to honor this relationship.

Thank you to the many participating veterinary clinics and organizations that support the College of Veterinary Medicine through their gifts to the In Memoriam Program.

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Emch Enterprises, Inc. | Noblesville, IN

Five Points Kennels, Inc. | Indianapolis, IN

Flossmoor Animal Hospital | Flossmoor, IL

Forest View Animal Hospital | Hoffman Estates, IL

Fort Wayne Pet Hospital | Fort Wayne, IN

Garrett Veterinary Hospital | Garrett, IN

Glasgo Memorial Veterinary Hospital | Indianapolis, IN

Great Lakes Caring Center | Jackson, MI

Hammond Pet Hospital | Hammond, IN

Hartford Animal Clinic | Hartford, WI

Hartford Animal Clinic | Hartford City, IN

Hazel Dell Animal Hospital PC | Carmel, IN

Highland Animal Hospital | Highland, IN

Hobart Animal Clinic, Inc. | Hobart, IN

Indianapolis Fitness and Sports Training | Indianapolis, IN

Jackman's Animal Clinic P.C. | Milroy, IN

Jennings Veterinarians, Inc. | North Vernon, IN

Kingston Animal Hospital | Kingston, MA

Knollwood Animal Hospital PC | Lake Bluff, IL

Knox Veterinary Hospital, Inc. | Knox, IN

Kurtz Veterinary Clinic | Hagerstown, IN

Lakeville Veterinary Clinic, Inc. | Lakeville, IN

Laughery Valley Vet Hosp, Inc. | Versailles, IN

Leininger Veterinary Clinic | Crown Point, IN

Lincolnway Vet Clinic, Inc. | Mishawaka, IN

Lynn Veterinary Hospital | Lynn, IN

Main Line Veterinary Hospital, Inc. | Frazer, PA

Manchester Veterinary Clinic | North Manchester, IN

Merrillville Animal Hospital | Merrillville, IN

Metzger/Holcomb Animal Clinic, LLC | Spearfish, SD

Mobile Vet Services P.C. | Fort Wayne, IN

Monfort Heights Animal Clinic | Cincinnati, OH

Monon Animal Hospital | Indianapolis, IN

Montfort Heights Animal Clinic | Cincinnati, OH

Napoleon Veterinary Clinic, Inc. | Napoleon, OH

New Carlisle Animal Clinic PC | New Carlisle, IN

New Prairie Small Animal Clinic | Rolling Prairie, IN

Nora Veterinary Hospital | Indianapolis, IN

Oak Hill Animal Clinic, Inc. | Crown Point, IN

Parkdale Animal Hospital, Inc. | Newburgh, IN

Pendleton Veterinary Clinic | Pendleton, IN

Pet Vac Animal Hospital | Spartanburg, SC

Peterborough Vet. Clinic | Peterborough, NH

Plymouth Veterinary Clinic | Plymouth, IN

Portage Animal Clinic | Portage, IN

Portage Park Animal Hospital | Chicago, IL

Princeton Veterinary Hospital | Princeton, IN

Quintiles | Stuart, FL

Ridgefield Animal Hospital | Ridgefield, CT

Rockville Road Veterinarians, Inc. | Indianapolis, IN

Rodgers Vet Hospitals, Inc. | Knightsville, IN

Salem Veterinary Service, Inc. | Salem, IN

Seven Oaks Veterinary Clinic | Plymouth, IN

Seymour Animal Hospital | Seymour, IN

Silver Lake Sm Animal Vet Clinic | Silver Lake, IN

South 31 Veterinary Clinic | Indianapolis, IN

South Side Animal Hosp., Inc. | Indianapolis, IN

Southlake Animal Hosp., Inc. | Merrillville, IN

Spring Valley Veterinary Clinic | Schaumburg, IL

St. Joe Center Vet. Hospital | Fort Wayne, IN

St. Joe Veterinary Clinic | Evansville, IN

Stellhorn Veterinary Hospital | Fort Wayne, IN

Stoney Creek Pet Clinic | Noblesville, IN

Summerlin Animal Hospital | Las Vegas, NV

The Downtown Veterinarian | Indianapolis, IN

Tranquility Veterinary Clinic | Tranquility, NJ

Tri-State Vet Clin/Equine Ctr | Kendallville, IN

VCA Antech, Inc. | Los Angeles, CA

Vetcor Professional Practices, LLC | Hingham, MA

Village East Animal Hospital | Evansville, IN

Wabash Valley Animal Hospital | Terre Haute, IN

Waltz Animal Clinic | Madison, IN

Warrick Veterinary Clinic | Boonville, IN

West 56th St. Vet. Hosp. | Indianapolis, IN

West Side Pet Hospital | Evansville, IN

Westside Animal Hospital | Fort Wayne, IN

Wilton Hospital for Animals | Wilton, CT

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