

PVMM REPORT

2017 ANNUAL REPORT EDITION | Vol. XXXX, No. 3



PURDUE
UNIVERSITY®

College of Veterinary Medicine

**PLANS
TAKE SHAPE**

NEW Purdue Veterinary
Medicine Hospital

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COVER STORY

The Purdue University College of Veterinary Medicine moves forward with plans to break ground on construction of a new equine hospital in 2018.

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dean's column



"Talk is cheap," people say. And it's true. That's why at the Purdue University College of Veterinary Medicine, we measure progress in terms of value and action. In that light, the past year has proven to be both exciting and noteworthy.

As explained in our cover story of this annual report issue of our PVM Report publication, we now have the green light and definitive plans for a new equine hospital. Years of thoughtful consideration concerning the future of our College and the vital need to upgrade our large animal hospital facilities led to Purdue Board of Trustees approval for this \$35 million project. We are excited as we anticipate groundbreaking in 2018 for this first phase in a planned multiple phase improvement of our Veterinary Teaching Hospital. As you read about this project, I hope you will gain an appreciation for the importance of this milestone and be encouraged about this example of moving from discussion to action for the betterment of veterinary medical education and service to animal owners across Indiana and the Midwest.

This exciting development comes on the heels of another major step forward that our College took in April when we held the dedication ceremony for our new Centaur Equine Specialty Hospital in Shelbyville, Ind. A state-of-the-art resource for Indiana's equine industry, this hospital is off to a very successful start, providing extraordinary medical treatment that is focused on, but not limited to, performance horses. The Centaur Equine Specialty Hospital is an excellent complement to the large animal hospital services we provide on the Purdue campus in West Lafayette.

Another need requiring strong action both in our College and the veterinary medical profession involves diversity and inclusion and I am especially pleased and proud of the leadership role our College is taking in moving from talk to action. Our outstanding team of faculty and staff have developed a suite of innovative programs that are beginning to make tangible and measurable differences in the diversity within our College, which is instrumental to increasing diversity in the veterinary medical profession. These creative initiatives are reaching children in the earliest elementary school grades with positive, relevant, and exciting messages about the veterinary medical profession, while also providing a better foundation for the success of underrepresented minority students interested in earning the Doctor of Veterinary Medicine degree and entering the profession of veterinary medicine. Already we are seeing results as the percentage of underrepresented minority students in our incoming classes continues to climb.

Additionally, we are gaining national recognition for our efforts in diversity and inclusion, most recently by virtue of being named a recipient of the 2017 Health Professions Higher Education Excellence in Diversity (HEED) Award from *INSIGHT Into Diversity* magazine, the oldest and largest diversity-focused publication in higher education. I trust our story about that award will fill you, as it does me, with real pride in Purdue Veterinary Medicine.

I also am proud of our alumni and friends who have taken action as part of Purdue University's Ever True Campaign by generously giving to our goals for student support, faculty support, programs, facilities, and unrestricted funds to meet our areas of greatest need. The fiscal year that ended June 30 was record breaking for Purdue Veterinary Medicine, with a total of nearly \$8.6 million contributed, bringing us to 93% of our Ever True Campaign goal of \$40 million. It is with deep appreciation that we include our Donor Honor Roll in this annual report issue, to help us say thank you. Without your help as generous supporters, our success would not be possible.

As we look forward with enthusiasm to the coming year, these are but a few of the reasons for our growing excitement about the future of the Purdue University College of Veterinary Medicine.

Willie M. Reed, DVM, PhD
Dean, College of Veterinary Medicine



SERVICE

PLANS FOR NEW PURDUE VETERINARY MEDICINE HOSPITAL

Newly produced architects' renderings reveal the initial design concepts for a multiple phase Veterinary Teaching Hospital (VTH) project that ultimately will create a stunning new look for the Purdue University College of Veterinary Medicine and address critical needs related to its missions of learning, discovery, and service to animal owners and referring veterinarians. The first phase will be a new equine hospital. The \$35 million structure, as well as future phases, will be located east of the College's existing facility in space to be made available by demolition of nearby Freehafer Hall and the extension of Williams Street in West Lafayette.

TAKE SHAPE



PHASE 1

PHASE 2A

Phase 1:
Equine Hospital | \$35M



PHASE 2B

EXISTING LYNN HALL

Phase 2A:

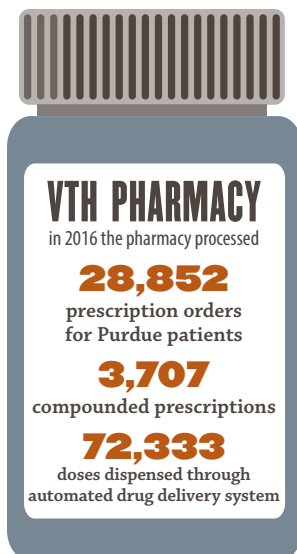
Small Animal Hospital | \$40M

Phase 2B:

Food Animal Hospital | \$12M



VETERINARY TEACHING HOSPITAL: A YEAR IN REVIEW



VTH OPERATES WITH
105 / **77**
DVMs / technicians



5,201
small animal
emergency visits
(2016-2017 fiscal year)



TOTAL VISITS
17,563
Small Animal Hospital
2,299
Large Animal Hospital
(2016-2017 fiscal year)

In August, the Purdue University Board of Trustees gave its authorization to plan, finance, construct, and award construction contracts for the new equine facility. "This commitment fulfills the foremost priority in our College's strategic plan," said Dean Willie Reed. "A new hospital for equine patients will enable us to increase our effectiveness in recruiting top-notch students, retaining our elite faculty, growing our animal patient caseload, and training the next generation of veterinary students."

The 76,600 square foot hospital will have an entrance from South Grant Street, with paddocks near that entrance. Necessary utility work also will be included in Phase I.

Future phases will involve construction of a new small animal hospital and a food animal hospital for species such as cattle and small ruminants. Plans call for starting construction of the equine hospital in September of next year. Financial support for the project will come from the University's central reserves and private gifts.

Designed to meet the needs of students, faculty, and hospital clients, the new facility will include space for orthopedic and general surgery; diagnostic imaging, including radiology, MRI, and CT; nuclear medicine; an equine outpatient reception area; exam rooms;



Top left: New hospital facilities include an equine hospital complete with new large animal barns to be built during Phase 1.

Top right: New hospital facilities include a new equine outpatient building to be completed during the first Phase.

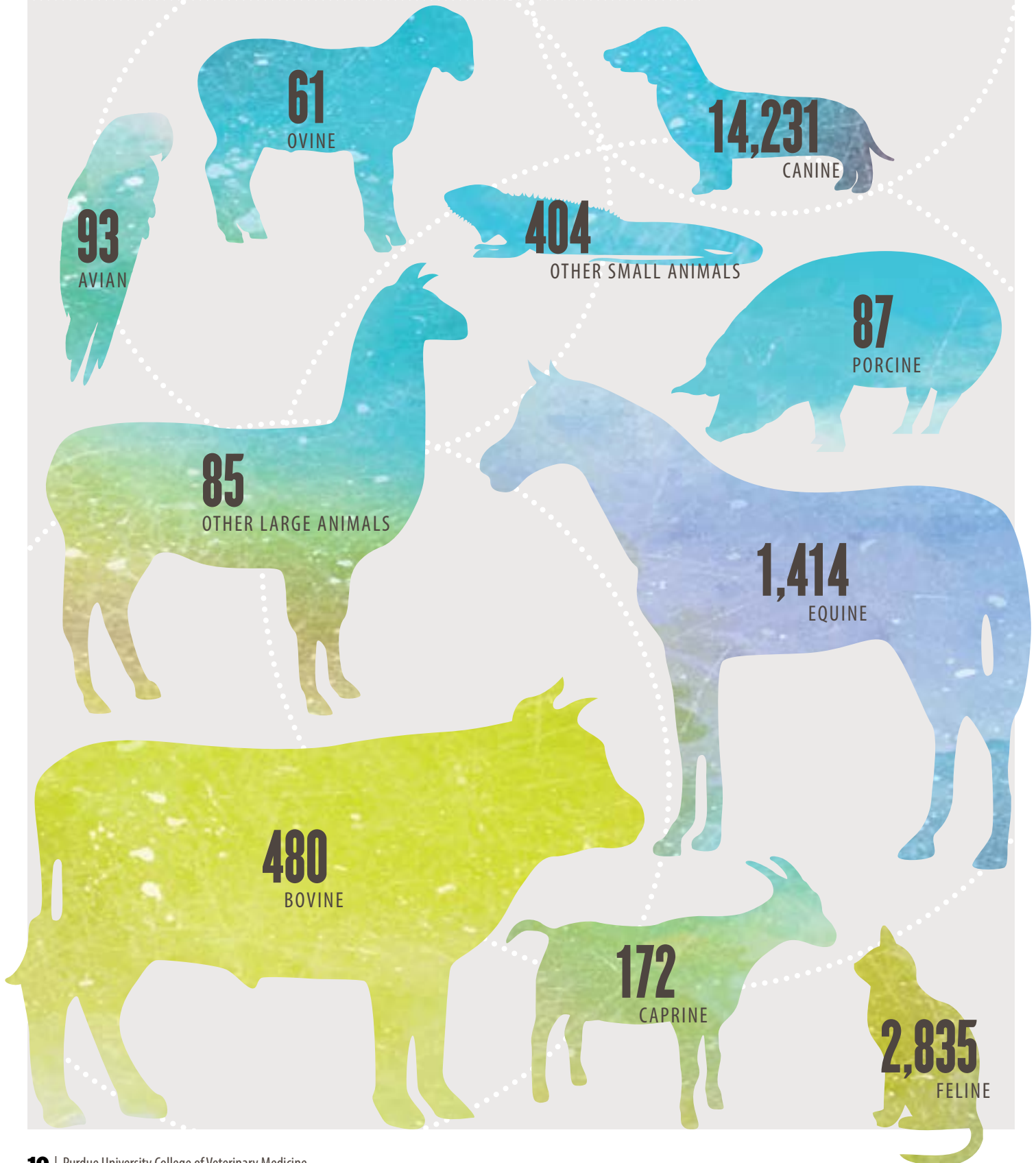
Bottom: The anticipated second phase of construction will include a new \$40 million small animal hospital.

VETERINARY TEACHING HOSPITAL: A YEAR IN REVIEW

19,862 patient visits (by species)

during the 2016-2017 fiscal year at the Purdue University Veterinary Teaching Hospital

The clinicians, veterinary technicians, residents, interns, and fourth-year students in the Veterinary Teaching Hospital have had their hands full treating animals of all shapes and sizes.



treatment, medicine, and surgery wards; a reproductive systems ward; an intensive care unit; and an area for conducting hospital rounds.

Dean Reed said these key areas of the hospital can be named by donors who make qualifying contributions.

"As we anticipate groundbreaking next fall, we are excited about partnering with supporters who would consider the special naming opportunities associated with this exquisite new structure," Dean Reed said. Those interested in more information about naming opportunities should contact the PVM Advancement Office at 765-494-6304 or pvmgiving@prf.org.

The new facility cannot come too soon, according to Dean Reed. Parts of the existing Veterinary Medical Complex date back to the early 1900s. Since opening in 1960, Lynn Hall, the College's main building, has had to undergo multiple rounds of refurbishing

to accommodate new technologies and increased enrollment. The building originally was designed for about 50 students per class. "Since Lynn Hall was constructed, we have increased DVM student enrollment to nearly 90 per class, expanded our research, added the veterinary technology program to train the nurses in veterinary medicine, and developed sizable residency and internship programs in a crowded and very outdated structure," Dean Reed said.

"Modern facilities with up-to-date capabilities are vital to successfully addressing these issues. This commitment by Purdue to construct a wonderful, state-of-the-art facility means we will be able to provide the highest quality care for our animal patients and a much better learning environment for our students, who are preparing to become the next generation of veterinary professionals."

MAKE YOUR MARK.

Contact the PVM Advancement Office to learn more about naming opportunities at 765-494-6304 or pvmgiving@prf.org.



completed for partner animal shelters in Indiana by PVM's Priority 4 Paws mobile surgery team during the 2016-2017 fiscal year



Dozens of faculty, staff, students, alumni, and community residents and their canine companions participated in Purdue Veterinary Medicine's 45th annual Dr. Skip Jackson Dog Jog on Saturday, September 23. Awards were given to a number of joggers, human and canine alike, but two dogs, Zoe and Rascal, who ran in the 5K with their owners, got rewards of a different kind.

Zoe and Rascal were not the typical canine runners, because both are undergoing life-extending chemotherapy treatment for lymphoma at the Purdue University Veterinary Teaching Hospital (VTH). "It flies in the face of what we think chemo to be, that a dog undergoing treatment is feeling healthy enough to run a 5K," said Dr. Michael Childress, associate professor of comparative oncology at the Purdue University College of Veterinary Medicine. "But they do lead a normal life most of the time they're on chemo."

Lymphoma is a blanket term to describe several kinds of cancers that begin in infection-fighting cells found in the lymph nodes, spleen, bone marrow, and other parts of the body. There are many subtypes of lymphoma, and each lymphoma grows at a different rate and responds differently to treatment. As with humans, chemotherapy treatment can be very successful for dogs, adding years to the dog's life. And while dogs may suffer the same symptoms as a human patient undergoing chemotherapy, they generally maintain a high quality of life during their treatment for cancer, such as running a 5K at the peak of their chemotherapy treatment.

Rascal, a six-year-old golden retriever, ran the 5K with his owner, Dr. Lyn Freeman, Purdue Veterinary Medicine associate professor of small animal surgery. "I didn't know exactly what was going on with him at first," Dr. Freeman said. Rascal first presented with unquenchable thirst and anxiety, symptoms that were consistent with thymic lymphoma. He began chemotherapy treatment in the spring of 2017, and Dr. Freeman began to see improvements right away. "He's a real sweetheart," she said.

"This is the third year we've run it," said Caitlyn Vanderhoe, third-year veterinary student and owner of Zoe. "It was great to see Zoe be so healthy and energetic." Zoe began treatment in May after a visit to the VTH emergency room. She presented with enlarged lymph nodes and lethargy, and generally not acting like herself, said Caitlyn. After an appointment with the VTH internal medicine and oncology services, Zoe started chemotherapy. She received her last dose of chemotherapy in November.

Canine Lymphoma Patients Go the **DISTANCE**

at the 45th Annual
Dr. Skip Jackson
Dog Jog

By: Lauren Bruce



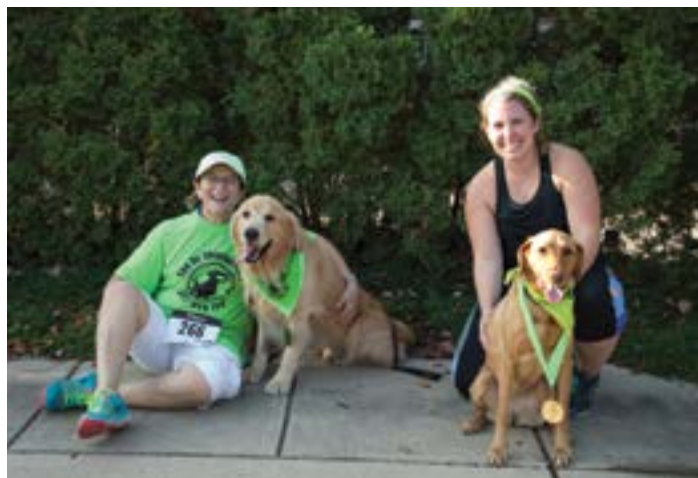
"Zoe's cancer is one of the most common we see in dogs," said Dr. Childress. "Diffuse large B-cell lymphoma occurs in humans as well as canines, and is almost always treated with chemotherapy. Upon treatment, the cancer becomes completely undetectable for several months in the dog, which we call 'complete remission'."

During remission, dogs are virtually symptom-free, but typically do not experience a complete cure. "We knock it down for a while, but it does eventually come back. With chemo, the life expectancy of the average dog is about a year, and without it's about three to four weeks. We try to strike a good balance between quality of life and life extension."

Many dog owners choose to treat their pets to maintain and extend their quality of life as long as possible, and it gives pet owners an opportunity to have some more positive experiences with their pet before they progress toward the end stages of cancer.

"She's done really well in chemotherapy," Caitlyn said.

"From the get-go her energy came back and she has been bouncing off the walls. We won't be able to do the dog jog next year, so I'm glad we did it this time. It was so much fun."



Top left: Caitlyn Vanderhoe, a third-year veterinary student at the Purdue University College of Veterinary Medicine, poses with Zoe next to the "Continuum" sculpture in front of Lynn Hall. Zoe is undergoing chemotherapy for diffuse large B-cell lymphoma at the Purdue University Veterinary Teaching Hospital.

Top right: Dr. Lyn Freeman and her mother, Patricia Freeman, pose with their six-year-old golden retriever, Rascal, at the Dr. Skip Jackson Dog Jog. Rascal is currently undergoing treatment for thymic lymphoma at the Purdue University Veterinary Teaching Hospital.

Bottom: Dr. Lyn Freeman and Caitlyn Vanderhoe pose with their dogs after running in the 2017 Dr. Skip Jackson Dog Jog.



NARCAN TRAINING

PVM Provides Training
on Opioid-reversal
Drug Narcan to Protect
Police Dogs from Opioid
Overdoses

By Lauren Bruce

At the Lafayette Police Department training compound, K9 Vasco sniffed around the room, nose to the ground, and indicated that he found something good. Just like your dog at home, police dogs are hardwired to smell everything, but K9 officers like Vasco are trained specifically to smell illegal drugs. Vasco, a six-year-old Belgian Malinois and four-year veteran of Tippecanoe County Community Corrections, had just located a hidden bag of heroin.

Like so many police dogs, Vasco's contributions to police work in Tippecanoe County are remarkable. But because of his high-risk job going into the homes of suspected drug offenders, he is at considerable risk for drug exposure. With the help of training provided by veterinarians at the Purdue University Veterinary Teaching Hospital (VTH), on-duty K9 police officers in Greater Lafayette now are carrying naloxone, commonly known by the name Narcan, to keep police dogs like Vasco safe when they are sent into houses and cars to find narcotics.

The trend toward recreational use of fentanyl and carfentanil is dangerous for people and dogs alike because it takes so little of the drug to cause overdose symptoms. Fentanyl is 100 times more potent than morphine, and carfentanil is about 10,000 times more potent than morphine. A lethal dose of fentanyl looks like a few granules of salt, and is so lightweight and powdery it can float in the air. It takes even less Carfentanil to induce an overdose.

Since 2015, several emergency responders in Greater Lafayette have been carrying Narcan with them to use in cases of human narcotic overdoses. The drug has been credited with a steep drop in heroin deaths in Tippecanoe County over the last year.

But with the frequent use of K9 officers in houses and cars where drugs might be present, area police saw the need for readiness and training. Sergeant B.T. Brown, a Lafayette Police Department supervisor who oversees the Tippecanoe County Metro K9 Unit, heard reports from around the country where police dogs, exposed to fentanyl during a routine drug search, had to be rushed to the hospital for emergency treatment for opioid overdose.

"We haven't had an exposure problem in Greater Lafayette with the dogs yet, but we need to be prepared in case we do," Sgt. Brown said. "Part of my concern was seeing the need for training and readiness because of the heroin and opioid influx here. It's without question that opiate-based drugs have had a huge influence on the Lafayette area. We see it literally every day."



It's likely that if a police dog is experiencing symptoms, his handler will as well.

The K9 officers began carrying Narcan for canine use after receiving training from Drs. Paula Johnson and Elizabeth Thomovsky, and their Emergency and Critical Care team at the Veterinary Teaching Hospital. "After a lecture, we gave the officers hands-on training on how to give intramuscular injections and intranasal





CANINE OPIOID EXPOSURE:

A dog exposed to opioids will display a wide range of symptoms, from stumbling and sedation, to excitability and nervousness, which can change the preferred Narcan administration method in the moment.

administration,” said Dr. Johnson, PVM clinical assistant professor of emergency and critical care. “Opioid drugs have been on the rise in Greater Lafayette for several years, and K9s are at considerable risk due to their work around drug-related crimes.”

Naloxone is an opiate antidote which can reverse symptoms of an overdose, giving emergency responders more time for life-saving treatment for people who overdose. Municipal Narcan programs for humans are commonly carried out under training provided by medical doctors, and K9 programs for dogs that might be exposed in the line of duty are carried out under training provided by veterinarians.

“The risk for a dog is not just oral ingestion [of opioids],” Dr. Johnson explained. “The drug can be airborne, or there could be dermal exposure if some lands on the dog’s coat. Any of the powder that they’re exposed to can be ingested later while the dog is grooming or just walking around. It can even be absorbed through their paws.”


A dog exposed to opioids will display a wide range of symptoms, from stumbling and sedation, to excitability and nervousness, which can change the preferred Narcan administration method in the moment. Narcan can be administered to canines as a nasal spray or by intramuscular injection.

“It’s likely that if a police dog is experiencing symptoms, his handler will as well,” Sgt. Brown said.

Officers in Greater Lafayette police departments say it’s a particular honor to be a K9 handler. Experienced police officers undergo a long application process to become a handler, and must be willing to commit years of their lives to living and working with a K9 partner every day. The dogs undergo years of expensive, focused training, learning specialized search and tracking methods, and once they are deployed, they live with their handler and work as that officer’s primary police partner until the dog’s retirement. After retirement, the dogs usually live out the remainder of their lives with that officer.

“This training is important to me so we protect not only

our canine friends as assets, but as assets of the [police department] and their handlers,” Sgt. Brown said. “This is a lifetime commitment. They’re not only working dogs, but our friends.”

 *The Purdue University Veterinary Teaching Hospital offers discounts for the medical treatment of certified service dogs and police K9s. For more information, inquire at 765-494-1107.*

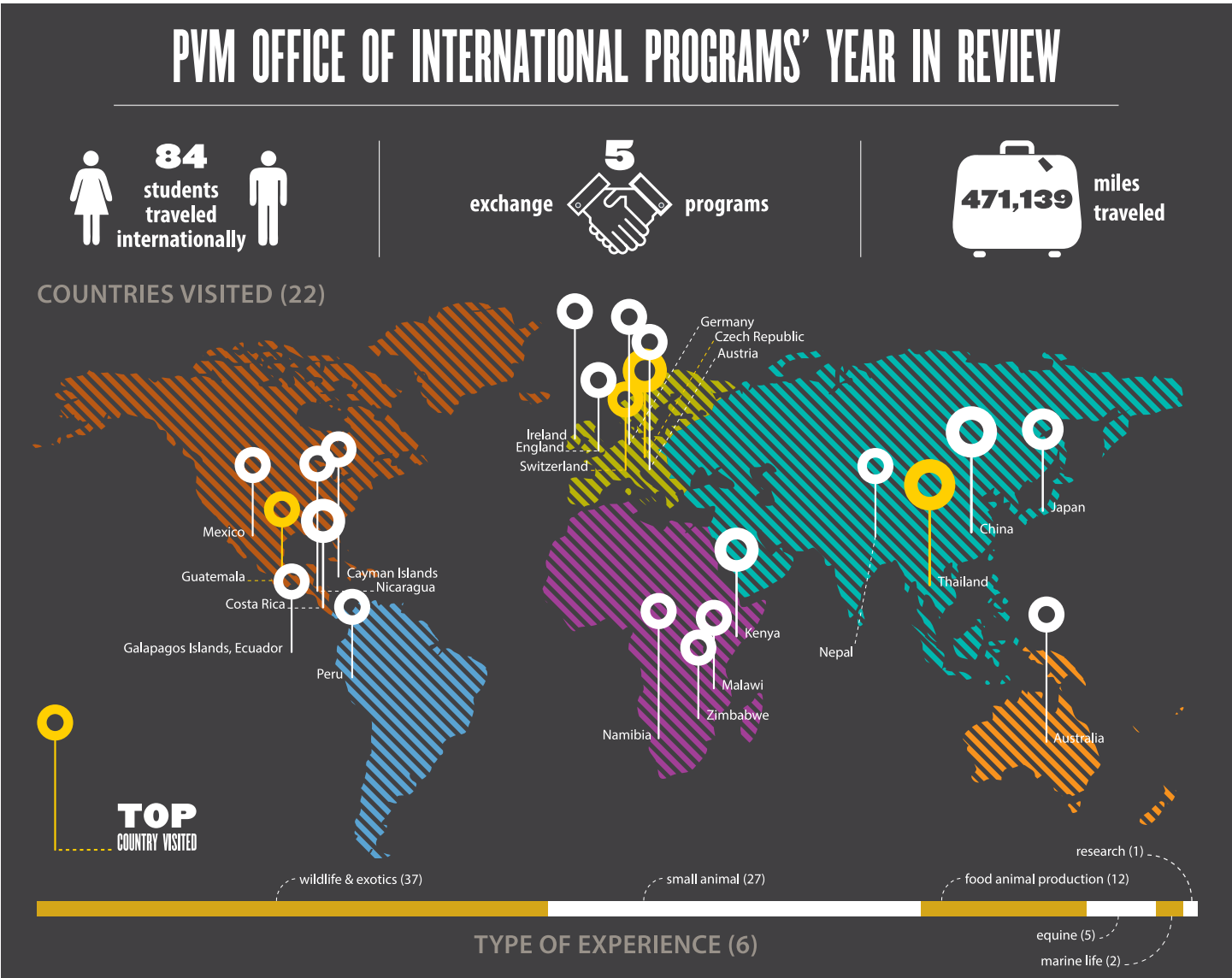
Page 14: Remco serves on the West Lafayette Police Department as a dual-purpose K9, meaning he is trained both for drug detection and security. All of the dogs in the Tippecanoe Metro K9 Unit are trained for dual-purpose.

Page 15, left: Sergeant B.T. Brown, supervisor of the Tippecanoe Metro K9 Unit, poses with Vasco, a six-year-old veteran of the unit, which includes the Lafayette, West Lafayette and Purdue Police Departments, and the Tippecanoe County Sheriff’s Department. This group trains and works together, deploying resources throughout the metro area.

Page 15, right: The Metro K9 Unit now carries naloxone, commonly known as Narcan, to keep K9s safe when they are sent into houses and cars to find narcotics. Narcan is an opiate antidote which can reverse symptoms of an overdose, giving emergency responders more time for life-saving treatment for people – and dogs – who are exposed to fatal levels of opioids.

Previous page: Lafayette Police Department K9 Cezar with his partner, Officer Leroux, after a Tippecanoe County Metro K9 Unit training session in which he practiced finding illegal drugs in an open area.

Photos courtesy of Michael Dick Photography.



Rare Case Leads ADDL Resident to First-time Discovery in White-tailed Deer

By Lauren Bruce

When Dr. Andrea Vanderpool (PU DVM 2004), resident in anatomic pathology at the Indiana Animal Disease Diagnostic Laboratory, received a biopsy submission of a farmed deer in Indiana, she wasn't aware she was looking at a landmark discovery.

The deer died from chronic bacterial pneumonia, which is common, but the referring veterinarian noticed that the deer's front and rear limbs were swollen as well. The swelling wasn't edema, although edema would have made sense as a symptom resulting from pneumonia. In this case, it was bony thickening of all four limbs.

Hypertrophic osteopathy was the eventual diagnosis. There is no previous record of this condition being seen in a white-tailed deer. Commonly seen in dogs, and sometimes humans, hypertrophic osteopathy occurs when lesions in the lungs lead to production of new bone on the distal limbs. "There are a number of theories why this might occur," said Dr. Vanderpool, "but why something in the chest leads to increased growth factors in the limbs is still unknown."

There are very few known cases of hypertrophic osteopathy in other deer species, with one reported in a deer species in Europe.

"That this is even a possibility is fascinating to the veterinary community," said Dr. Vanderpool. "It helps to know that this is an entity that exists in deer, and that we might look out for symptoms in our cases moving forward."

Dr. Vanderpool earned her Purdue DVM degree in 2004. Following graduation, she worked in small animal private practice in Indiana and Tennessee, before returning to Purdue to begin her residency and graduate teaching assistantship in the Department of Comparative Pathobiology.





DISCOVERY

PURDUE VETERINARY MEDICINE EQUINE SPECIALIST RESEARCHES

Better Treatments for Sepsis in Horses Using Innovative, Multimodal Approach

Sepsis is a common cause of illness and death in both humans and animals worldwide, and occurs when infection leads to overwhelming, whole-body inflammation. In the majority of cases, infections resolve quickly by the use of antimicrobial drugs such as antibiotics, but widespread inflammation can lead to shock, organ failure, and death. Developing new

therapies that stem the harmful cascade of inflammatory events is vital to improving survival in septic patients.

Dr. Sandra Taylor, associate professor of large animal internal medicine in the Purdue University College of Veterinary Medicine, is conducting research aimed at improving treatments for sepsis in horses. Newborn

foals and other large animal species are particularly susceptible to sepsis when colostrum (the mother's first milk) is not ingested within a few hours of birth. Colostrum contains protective antibodies that are critical in preventing ingested bacteria from entering the blood stream and causing sepsis. Adult horses also suffer from sepsis, which can occur in cases of severe pneumonia, colitis, or uterine infection.

Dr. Taylor's love for animals, particularly horses, led her to pursue a career in veterinary medicine. "While investigating an equine model of HIV during graduate school, I developed a passion for research," Dr. Taylor said. "I am especially interested in research that can be applied to both animals and humans." Equine studies can be good examples of that kind of comparative research, according to Dr. Taylor.

Specifically, Dr. Taylor has studied the anti-inflammatory effects of ketorolac tromethamine (KT) in the horse,

and has found that this non-steroidal anti-inflammatory drug (NSAID) decreased inflammation in equine blood that had been stimulated with gram negative bacteria. She is currently investigating the analgesic properties of KT, phenylbutazone (Bute), and flunixin meglumine (Banamine®) in the horse. She hopes that KT will be a superior NSAID in treating both sepsis and pain in horses.

SEPSIS:


Sepsis is a common cause of illness and death in both humans and animals worldwide, and occurs when infection leads to overwhelming, whole-body inflammation.

Dr. Taylor is also investigating the safety and efficacy of using stem cells to treat sepsis. Stem cells have been shown in her laboratory to elicit anti-inflammatory effects in bacteria-stimulated equine white blood cells, and in rodent models (mice and rats). Dr. Taylor has isolated and grown stem cells from horse blood, and is currently in the process of characterizing the cells prior to confirming the safety of intravenous administration. The next step will be to test the ability of stem cells to improve survival in septic horses.

Previous page: Dr. Sandra Taylor, associate professor of large animal internal medicine in the Purdue University College of Veterinary Medicine, with a newborn foal.

Left: A foal undergoes treatment for sepsis at the Purdue University Large Animal Hospital.





PVM Cancer Researcher Collaborates on Creating Device to Identify Risks for Breast Cancer

Purdue University College of Veterinary Medicine Professor of Cancer Pharmacology Sophie Lelièvre is moving mountains with her contributions to breast cancer research.

Dr. Lelièvre, a faculty member in the College's Department of Basic Medical Sciences, heads up research concerning nutritional effects on breast cell biology and now is working on a project to create a device that could help identify risk factors that cause breast cancer. Called "risk-on-a-chip", the device itself is a small plastic case with several thin layers and an opening for a piece of paper where researchers can place a portion of tissue. This tiny environment produces risk factors for cancer and mimics what happens in a living organism.

Dr. Lelièvre puts an emphasis on the importance of the most critical window of time for breast cancer prevention: before birth leading all the way up to puberty. "We want to be able to understand how cancer starts so that we can prevent it," she said.

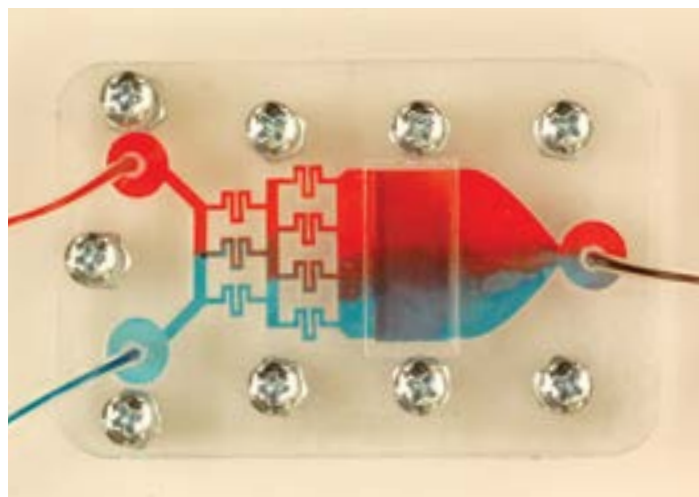
Cancer is a disease of gene expression, and organization of genes is specific to a particular species and organ, which means it wouldn't be useful to perform this study on rats or mice. Thus, Dr. Lelièvre needs a model that will mimic the organ in question. She teamed up with Dr. Babak Ziaie, professor of electrical and computer engineering at Purdue, to create the device.

This project is part of the International Breast Cancer and Nutrition collaboration (IBCN), which involves a group of multidisciplinary research teams that seek to elucidate the common link between nutrition and breast cancer.

"Unlike conventional 2-D monolayer cell culture platforms, ours provides a 3-D cell culture environment with engineered gradient generators that promote the biological relevance of the environment to real tissue in the body," said Rahim Rahimi, a graduate student in Dr. Ziaie's lab.

The risk-on-a-chip is based on an earlier cell culture device developed by Drs. Lelièvre and Ziaie to study cancer progression. To modify it for prevention, Dr. Ziaie plans to add nanosensors that measure two risk factors: oxidative stress and tissue stiffness.

Oxidative stress involves a chemical reaction that occurs as the result of diet, alcohol consumption, smoking, or



other stressors, and it alters the genome of the breast, aiding cancer development. The risk-on-a-chip will simulate oxidative stress by producing those molecules in a cell culture system that mimics the breast ducts where cancer starts.

Tissue stiffness refers to the stiffness of breast tissue, which has been found to contribute to onset and progression of breast cancer. The research team will measure stiffness within a tunable matrix made of fibers, whose density is relative to stiffness.

Breast cancer is particularly difficult to prevent because multiple risk factors work independently or in combination to promote disease onset. To account for this, the risk-on-a-chip will be tailorable to different groups of women at-risk.

"We need to see if there's a difference in primary cells from Black women or Asian women or White women, because that matters," Dr. Lelièvre said. "The way our genome is organized depends on an individual's ancestry and lifestyle; it's very complex. That's why cancer is so difficult to treat."

The research team believes the risk-on-a-chip could be used to study additional risks by adding more cell types and biosensors. They estimate that optimization for each new condition will take between six months and a year. Drs. Lelièvre and Ziaie have received a joint grant from the Department of Defense to create and test the device with structures that mimic the mammary gland. The grant will provide more than \$500,000 over the next two years.

This project is part of the International Breast Cancer and Nutrition collaboration (IBCN), which involves a group of multidisciplinary research teams that seek to elucidate the common link between nutrition and breast cancer. Launched at Purdue University, IBCN is the first dedicated worldwide effort in exploring the links between diet, the genome, and the risk of breast cancer.

Left: Dr. Sophie Lelièvre, professor of cancer pharmacology in the Purdue University College of Veterinary Medicine.

Right: Demonstration of concentration gradient in microfluidic system using red and blue color dye solutions.



... the most critical window of time for breast cancer prevention: before birth leading all the way up to puberty. "We want to be able to understand how cancer starts so that we can prevent it," Dr. Lelièvre said.

ENGAGEMENT



PURDUE VETERINARY MEDICINE RECEIVES HIGHER EDUCATION EXCELLENCE IN DIVERSITY AWARD

The Purdue University College of Veterinary Medicine was awarded the 2017 Health Professions Higher Education Excellence in Diversity (HEED) Award from *INSIGHT Into Diversity* magazine, the oldest and largest diversity-focused publication in higher education. The award is a national honor recognizing U.S. veterinary medical, medical, dental, pharmacy, osteopathic, nursing, and allied health schools that demonstrate an outstanding commitment to diversity and inclusion.

As a recipient, the College is being featured along with 23 other recipients in the December 2017 issue of the magazine. "I am very excited for our College to receive this prestigious award," said Dr. Kauline Cipriani, Purdue Veterinary Medicine assistant dean for diversity and inclusion. "This recognition spotlights the tremendous effort that our faculty, staff, and students have put forward in creating a climate and educational setting that truly supports all aspects of diversity and inclusion. It is no small achievement to be one of the first veterinary colleges nationally to receive the Health Professions HEED Award."

The award is open to all colleges and universities across the U.S. Applications cover all aspects of campus diversity and inclusion. One of the goals of the application process is to help institutions of higher education assess their diversity efforts in order to build on their success and improve where necessary.



“This award makes an important statement about the Purdue University College of Veterinary Medicine being a place that doesn’t just talk about diversity and inclusion, but lives it,” said Dean Willie Reed. “This recognition identifies us as a model for the commitment, creativity, and effort required for an institution to make measurable progress in being truly welcoming and supportive of everyone. Our College really does value diversity, and this award documents that fact.”

The College has programs like Access to Animal-Related Careers, which enhances

access for underrepresented minorities to a veterinary medical education, and This is How We “Role,” an initiative supported by the Science Education Partnership Award (SEPA) program of the National Institute of General Medical Sciences (NIGMS), a part of the National Institutes of Health (NIH), which provides fun and interactive science and math experiences to kids in kindergarten through the fourth grade, with an emphasis on those who are educationally disadvantaged due to socioeconomic status, race, or ethnicity. Another initiative involves the Purdue-based Center of Excellence for Diversity and Inclusion, which is the first of its kind and is focused on providing online certificate education in diversity and inclusion to faculty, staff, and students at 29 of the 30 colleges/schools of veterinary medicine, as well as veterinarians and veterinary technicians nationwide. A collaboration with the American Veterinary Medical Association (AVMA) and the Association of American Veterinary Medical Colleges (AAVMC), the center has 443 participants in the certificate program, and nearly 120 who have achieved their certificates.

Purdue Veterinary Medicine is one of only three veterinary colleges in the U.S. to receive the Health Professions HEED Award. The other two veterinary colleges honored are the Texas A&M College of Veterinary Medicine and Biomedical Sciences and The Ohio State University College of Veterinary Medicine.

Previous page: Purdue veterinary student ambassadors volunteer with children at the Hanna Center in Lafayette, Ind., as part of the This is How We “Role” NIH SEPA program.

Top: Students who completed the certificate program of the Center of Excellence for Diversity and Inclusion in Veterinary Medicine are honored for their accomplishments.

Right: Participants in the Access to Animal-Related Careers program get a glimpse into life as a veterinary student during a two-week Purdue Veterinary Medicine in-residence experience.



ADVANCING INCLUSION THROUGH
HUMAN-CENTERED VETERINARY MEDICINE
MEETING THE NEEDS OF OUR DIVERSE SOCIETY

FOUNDING
PARTNERS:



AVMA OFFERS SCHOLARSHIPS FOR STUDENTS

PARTICIPATING IN PURDUE'S DIVERSITY AND INCLUSION CERTIFICATE PROGRAM

The Center of Excellence for Diversity and Inclusion in Veterinary Medicine, a Purdue-based virtual resource and training center, aims to establish a veterinary workforce where all individuals are inspired, supported, and empowered to achieve their full potential. In light of those ideals, the American Veterinary Medical Association's (AVMA) board of directors has provided the center with a \$13,500 grant to enroll up to four students from each U.S. college/school of veterinary medicine in the Center's Certificate Program for Diversity and Inclusion in Veterinary Medicine.

Attaining a certificate requires completing 12 online modules, documenting three hours of volunteer community service, and participation in four pertinent activities, as well as submitting written reflections on the impacts these tasks have made on the student's experience. At the end of the program, students are required to submit a capstone paper on how they will

use the information learned in their future endeavors in order to promote diversity and inclusion in veterinary medicine.

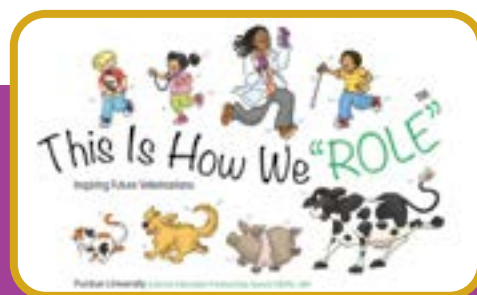
The certificate program is designed not only for students, but also for veterinarians, veterinary technicians, educators, and staff who seek to improve their communication, leadership, and cultural competency skills. The AVMA scholarships enable four students from each U.S. veterinary school/college to participate for free. They will have one year to complete their certificate. Interested candidates should contact the dean at their respective college or email hcvim@purdue.edu.

The Center of Excellence for Diversity and Inclusion was developed by the Purdue University College of Veterinary Medicine in partnership with the AVMA and the Association of American Veterinary Medical Colleges (AAVMC).

After-school Science Program Expands Nationwide

An after-school role-modeling program aimed at diversifying the veterinarian-scientist workforce is expanding with the help of four veterinary schools and colleges that received grants to partner with the Purdue University College of Veterinary Medicine. Called *This is How We "Role"*, the program is designed to increase awareness of the vital role that veterinarians play in keeping people and their animals healthy. With support from the SEPA program of the NIH's National Institute of General Medical Sciences (NIGMS), the *How We "Role"* program focuses on teaching educationally disadvantaged elementary school students the importance of veterinary medicine.

The Purdue University College of Veterinary Medicine led the development of interactive science and math experiences for students in kindergarten through fourth grade through a collaboration among Purdue's Evaluation and Learning Research Center, elementary school teachers, the Kingston Bay Group, and the Hanna Community Center. Now the SEPA-funded program will be expanded beyond Purdue University to additional regions of the country through grants of \$5,000 each awarded to the Colorado State University College of Veterinary Medicine and Biomedical Sciences, Cummings School of Veterinary Medicine at Tufts University, Lincoln Memorial University College of Veterinary Medicine, and Michigan State University College of Veterinary Medicine. Grant recipients are provided the curriculum and online training for delivering the program. The program's impact both on the elementary school students and veterinary student role models will be assessed. According to Dr. Sandra San Miguel, Purdue Veterinary Medicine associate dean for engagement, they hope to have *This is How We "Role"* programs at eleven additional U.S. colleges of veterinary medicine within the next two years. The next cycle for awarding grants to additional program partners will begin in January 2018.



HIGH SCHOOL STUDENTS

through
AgDiscovery Program
at Purdue

DISCOVER VETERINARY MEDICINE



The Purdue University College of Veterinary Medicine welcomed more than two dozen high school students from near and far to Lynn Hall this summer for three days of first-hand experiences designed to open their eyes to career opportunities in the veterinary medical profession. The visitors were participants in AgDiscovery, an outreach program of the United States Department of Agriculture (USDA) designed to help students learn about careers in animal science, veterinary medicine, agribusiness, and plant pathology.

Offered through the Office of Civil Rights, Diversity and Inclusion in the USDA Animal and Plant Health Inspection Service (APHIS), the program is hosted at 22 universities across the country. This year at Purdue University, the College of Veterinary Medicine teamed-up with the College of Agriculture to provide hands-on learning opportunities.

A total of 15 attendees came to Purdue from high schools in Puerto Rico and nine different states, including Texas, Florida, Massachusetts, North Dakota, Illinois, and Indiana. The curriculum offered by the College of Veterinary Medicine was developed by Dr. Michael Hill, professor emeritus of swine production medicine, and Dr. Darryl Ragland, associate professor of food animal production medicine. A total of 16 faculty and staff and three veterinary students were involved in putting on sessions covering such topics as restraint, physical examination, and milking of a dairy cow; restraint and physical examination of dogs and horses; swine anatomy; poultry medicine; emergency and critical care; imaging and cardiology.

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The Purdue AgDiscovery Program was organized jointly by Purdue Veterinary Medicine Assistant Dean for Diversity and Inclusion Kauline Cipriani and College of Agriculture Assistant Dean/Director of Multicultural Programs Pamela Morris. "This program represents a joint partnership based on the shared interests and missions of our two offices and the great need in both agriculture and veterinary medicine to increase diversity in our respective workforces," said Dr. Cipriani. As part of the partnership, the College of Veterinary Medicine was responsible to provide three full days of learning experiences involving veterinary faculty and staff. Given the success of the program, the College of Veterinary Medicine is planning to participate again in the 2018 Purdue AgDiscovery Program.

Top, left: Dr. Henry Green, associate professor of cardiology, gives AgDiscovery participants a chance to listen to a dog's heartbeat as part of a session on cardiology in Lynn Hall.

Top, right: Dr. Carrie Fulkerson (PU DVM 2010), clinical assistant professor of diagnostic imaging, shows a CT scan to participants in the USDA AgDiscovery outreach program at Purdue.

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The Purdue University Veterinary Teaching Hospital, located in Lynn Hall, is here to serve your pet and animal health needs big or small.

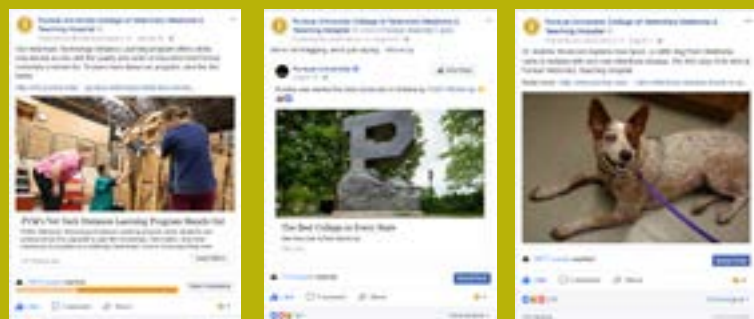
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LEARNING

1,100+ Attend
PURDUE VETERINARY CONFERENCE
for learning & fun

The 2017 Purdue Veterinary Conference attracted attendees from near and far for top quality continuing education and a variety of special events September 19-23 on Purdue University's West Lafayette campus. A total of 1,118 registered for the conference, including 264 veterinarians; 166 veterinary technicians; 185 Purdue Veterinary Medicine faculty, staff, and faculty emeriti; 256 PVM students; and 173 other guests. Additionally, the exhibit hall in the Purdue Memorial Union South Ballroom was staffed by 74 exhibitor representatives and served as a popular break location with interactive displays, giveaways, refreshments, and engaging conversation.

Conference sessions were led by 64 speakers who conducted 114 continuing education (CE) sessions. Attendees had the opportunity to participate in two interactive labs on "Bovine Reproduction" and "Avian Procedures for the Beginner." A popular new addition to the line-up this year, the "Emergency Preparedness: Disease and Disaster" track, featured sessions on agroterrorism, disaster triage, and animal disease events. The track was sponsored by the Indiana State Department of Health and the Indiana State Board of Animal Health.

Conference-goers also had the opportunity to hear a variety of special lecturers, including presentations on diversity in veterinary medicine and wellness, and the Dr. Jack and Naomi Stockton / Class of 1971 Lecture, which focused on the challenges and collaborative One Health approach involved in the care of military working dogs. The talk on Thursday, September 21, entitled, "The Role and Medical Management of Military Working Dogs in Combat," was presented by Dr. Jim Giles, retired U.S. Army lieutenant colonel who spent 18 years as a military veterinarian serving around the world, including a year in Afghanistan.

The public was invited to join conference attendees to hear the Elanco Human-Animal Bond Lecture Tuesday evening, September 19. Dr. Niwako



Ogata, PVM assistant professor of animal behavior, and Dr. Libby Richards, Purdue University assistant professor of nursing, spoke about the reciprocal relationship between human and canine health, including the many benefits afforded to both owner and dog by simply taking daily walks together.

The week of the Purdue Veterinary Conference doubles as the College's homecoming and included special events in celebration of PVM's outstanding alumni, faculty, and supporters. The Awards Celebration held Wednesday evening, September 20, honored ten awardees, including several faculty members and three distinguished alumni. Additionally, the Meet Me @ the Mixer Reception Thursday evening, September 21, served as a lively networking event as well as an opportunity to recognize Purdue Veterinary Medicine's alumni reunion classes, including the Golden Anniversary DVM Class of 1967 and the Silver Anniversary DVM Class of 1992.

Bookending the conference were two recreational events. The annual Indiana Animal Health Foundation/ PVM Golf Outing Tuesday, September 19, gave attendees a chance to enjoy the newly renovated Purdue Ackerman-Allen Golf Course while raising funds for scholarships and the support of student activities. The Dr. Skip Jackson Dog Jog Saturday, September 23, capped off the week, providing an opportunity for the general public to bring their dogs to the College and join with PVM faculty, staff, and students, and their canine companions, for a 5K fun run/walk that began and ended in front of Lynn Hall. The event finished just in time for everyone to migrate across campus for the Purdue Homecoming and tailgating festivities that took place around Ross Ade Stadium and along Stadium Mall prior to the football game against Michigan.

Special thanks to the Purdue Veterinary Conference sponsors: Elanco, Zoetis, Hill's Pet Nutrition, Cook Animal Health, Nutrena, Purina Veterinary Diets, the Indiana State Department of Health and the Indiana State Board of Animal Health.

Professional photographer, Ed Lausch, was on-hand to photograph the events. View photos on his website lauschphotography.com, using the following usernames and passwords at the login page:

Meet Me @ the Mixer

Login: 2017mixer

Password: september2017

Dr. Skip Jackson Dog Jog

Login: 2017dogjog

Password: september2017

Previous page: Alicea Howell, RVT, VTS (Behavior), KPA-CTP (PU VT-BS 2003) leads a session in the Vet Tech Specialty I track Thursday, September 21, at the 2017 Purdue Veterinary Conference.



Dean Willie Reed pauses for a photo during the conference with current PVM Veterinary Technology students (left-right): Ashanti Lee, Sierra Church, Alycia Smith, and Taylor Seufert all of the VT Class of 2018.



Elanco Human-Animal Bond lecturers (left-right), Dr. Niwako Ogata and Dr. Libby Richards, join PVM Dean Willie Reed and Dr. Alan Beck, Dorothy N. McAllister Professor of Animal Ecology and the director of the Center for the Human-Animal Bond, on stage at Fowler Hall Tuesday evening, September 19.



PVM Alum Dr. Hugh Glidewell, Sam Reinking of Hudson Aquatic Systems, PVM Clinical Professor of Surgery Mark Roach, Veterinary Teaching Hospital Director Duncan Hockley, and Veterinary Teaching Hospital Administrator Alan Schrope hit the links at the IAHF / PVM Golf Outing Tuesday, September 19.



Celebrating their Golden Anniversary, members of the DVM Class of 1967 received commemorative medallions at the Meet Me @ the Mixer event: (top-row, left-right) Dick Prickett, Toby Alterman, and Ralph Welp; (third-row, left-right) Jim Matchette, Lawrence Stauffer, and John Johnston; (second-row, left-right) Jack Gillespie, Jerry Smith, and Ivan Rimstidt; (front-row, left-right) John Hunt, John Neff, Robert Jackman, Mary Beth Leininger, Williamson Newsom, Paul May, and Roy Garvin.



Members of the Silver Anniversary DVM Class of 1992 gather for a class picture: (top-row, left-right) Bradley Coolman, Christy Herr, and Jeff Valenti; (middle-row, left-right) Minerva Anderson, William Chastain, Duane Long, and Amy Faulkenberg; (front-row, left-right) Bernie Beckman, Cindy Miller, Daniel Rudmann, and Jill (Edington) Korfist.



Jennifer Bishop, a veterinary technician from North Carolina State University, PVM Ophthalmology Technologist Pam Kirby, and PVM Veterinary Technology Instruction Technologist Julie Roahrig pause for a photo at the Meet Me @ the Mixer Reception.



Dr. Jim Giles presented the 2017 Stockton Lecture titled, "The Role and Medical Management of Military Working Dogs in Combat," in Stewart Center's Loeb Playhouse on Thursday, September 21.



About 180 humans and more than 80 canine companions charge forward at the start of the annual Dr. Skip Jackson Dog Jog on Harrison Street in front of Lynn Hall Saturday morning, September 23, concluding a busy and fun-filled conference week.

Golden Anniversary Class Shares Memories during Special Reunion Day



Members of Purdue Veterinary Medicine's fifth class to reach its Golden Anniversary, the DVM Class of 1967, received special recognition during a day of nostalgic events September 22. The activities began in the morning when the class members gathered at Lynn Hall and took advantage of the chance to don white coats as they embarked on tours led by students in the DVM Class of 2018. Then they convened for lunch to hear a presentation by Dean Willie Reed about the College's plans for new facilities in the coming years, before boarding buses for a driving tour of campus.



In the evening, the class members gathered at Mountain Jack's Steakhouse in Lafayette for their class reunion dinner. The evening began with a reception and entertainment by the Purdue Musical Organization's Lonely Hearts performing group. Dinner was followed by an opportunity for class members to share their recollections of their days at Purdue and their life experiences that have transpired during the 50 years since they graduated.



View photos of the reunion dinner taken by photographer Ed Lausch on lauschphotography.com. At the login page, use the username "2017reunion" and the password "september2017".

Top: 50th Anniversary Class members gather at their reunion dinner Friday, September 22.

Top, Right: Alexis Zobel, of the DVM Class of 2018, leads a tour group from the Golden Anniversary Class of 1967 through the Large Animal Hospital.

Bottom, Right: Sarah Dengler, of the DVM Class of 2018, with her 50th Anniversary Class tour group in the Physical Rehabilitation Service of the Small Animal Hospital.

CELEBRATION HONORS OUTSTANDING FACULTY & ALUMNI

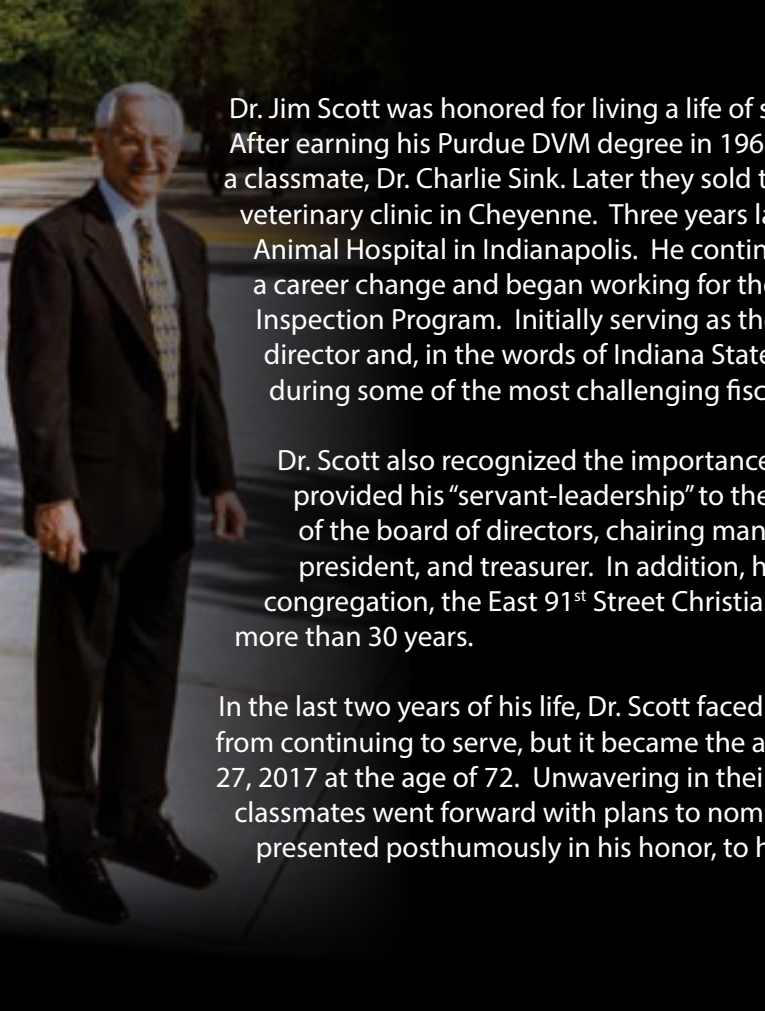
The Purdue University College of Veterinary Medicine presented three Distinguished Alumnus Awards, including one that was given posthumously, and seven faculty awards during the 2017 Awards Celebration that was held September 20 during the Purdue Veterinary Conference. "Our College's tradition of excellence is directly linked to the exceptional educators and research scholars who trained Purdue Veterinary Medicine students, preparing them for distinguished careers as veterinarians and veterinary technicians and technologists," Dean Willie Reed said as he began the program.

Established in 1978, the College's Distinguished Alumnus Award program honors outstanding alumni selected on the basis of excellence in one or more categories, including clinical practice, teaching, research, involvement in organized veterinary medicine, and service to their local community. More recently, the recognition program was expanded to be inclusive of outstanding veterinary technology alumni.

The 2017 Distinguished Alumnus Award honorees are: Kay Stewart (PU AS-VT '82), RVT, who most recently served as associate director of the University of Notre Dame's Freimann Life Sciences Center; Dr. Susan Johnson (PU DVM '78), interim associate dean of academic affairs at The Ohio State University College of Veterinary Medicine; and the late Dr. James Scott (PU DVM '68), a long-time Indianapolis veterinarian who left private practice in the latter part of his career to work for the Indiana Board of Animal Health.

A 1982 graduate of the Purdue Veterinary Technology Program, Kay Stewart was hired by Notre Dame University in 1985. She quickly was promoted to the position of assistant manager and later associate director of the university's Freeman Life Science Center, which is home to laboratory animals supporting Notre Dame teaching and research. She was praised by her colleagues for her dedication to research, teaching, and most importantly, the care of animals. She mentored and taught numerous students, both undergraduate and graduate, and advised many investigators with respect to animal research. She also conducted research and published papers in professional journals on topics related to environmental enrichment of laboratory animals. Additionally, she has been involved in other organizations and programs, including the City of South Bend/Potawatomi Zoo, the St. Joseph County Spay Neuter Assistance Program, and the Notre Dame Employee Compassion Fund that helps low-income families feed their pets.

Dr. Susan Johnson was nominated for the award because of her distinguished career as a clinician, scientist, teacher, and mentor. After earning her Purdue DVM degree in 1978, Dr. Johnson did an internship at the University of Minnesota, and then completed a residency in small animal internal medicine at The Ohio State University College of Veterinary Medicine, where she later joined the faculty and became board certified as a veterinary internal medicine specialist. Over the course of her 33-year Ohio State University career, Dr. Johnson mentored and trained generations of veterinary students, as well as more than 80 interns and some 40 residents, at least ten of whom became faculty members at other colleges of veterinary medicine. She retired in 2015, when she was named professor emeritus, and then agreed to come out of retirement to serve as interim associate dean of academic affairs.



Dr. Jim Scott was honored for living a life of servant leadership that involved an unwavering moral compass. After earning his Purdue DVM degree in 1968, Dr. Scott worked in private practice in South Holland, Ill. with a classmate, Dr. Charlie Sink. Later they sold the practice and moved to Wyoming where they purchased a veterinary clinic in Cheyenne. Three years later, Dr. Scott returned to Indiana and bought the Post Road Animal Hospital in Indianapolis. He continued in private practice until 2004, when he successfully made a career change and began working for the Indiana State Board of Animal Health's Meat and Poultry Inspection Program. Initially serving as the deputy director, Dr. Scott eventually assumed the role of director and, in the words of Indiana State Veterinarian Bret Marsh, "...provided significant leadership during some of the most challenging fiscal times ever experienced by the program."

Dr. Scott also recognized the importance of involvement in organized veterinary medicine and provided his "servant-leadership" to the Indiana Veterinary Medical Association, serving as a member of the board of directors, chairing many committees, and completing terms as president, vice-president, and treasurer. In addition, he cared for his community, and was actively involved in his congregation, the East 91st Street Christian Church, where he served in a leadership role as an elder for more than 30 years.

In the last two years of his life, Dr. Scott faced a new challenge – a battle with cancer. It did not stop him from continuing to serve, but it became the adversary he could not overcome, and he passed away January 27, 2017 at the age of 72. Unwavering in their support for their beloved friend and colleague, Dr. Scott's classmates went forward with plans to nominate him for the Distinguished Alumnus Award, which was presented posthumously in his honor, to his wife, Marilyn.

The Purdue Veterinary Conference Awards Celebration also included the presentation of awards to faculty members for excellence in teaching, research, and engagement. The awards and recipients are:

Alumni Faculty Award for Excellence



Dr. S. Kathleen Salisbury, *associate dean for academic affairs and professor of small animal surgery*

Nominations are submitted by faculty and the selection is made by a committee of faculty and alumni, on the basis of the nominee's performance and contributions in: research, scholarly, or creative endeavors; instruction and related activities; and/or public and professional services and relations. Dr. Salisbury was recognized for her excellence and dedication to instruction and related activities which have influenced the careers of hundreds of veterinary students, surgery residents, and faculty members; and for her outstanding achievements as associate dean for academic affairs.

PVM Alumni Outstanding Teacher Award

Dr. Pete Bill, *professor emeritus of basic medical sciences*

Selection is based on balloting by DVM students who evaluate the teaching effectiveness of faculty using the following standard: "An outstanding teacher is one who demonstrates superior ability in communicating the chosen material to students and stimulates their desire to master the material. This teacher will also recognize his/



her teaching responsibility does not stop at the classroom door, and therefore, will be ready to aid and motivate students in a counseling and advisory capacity, either formally or informally.” A longtime faculty member, Dr. Bill is the former director of the Veterinary Technology Program and most recently served as assistant dean for academic affairs focusing on teaching and learning, before retiring during the summer.

Zoetis Distinguished Teacher Award

Dr. John Christian, *associate professor of veterinary clinical pathology and director of the Clinical Pathology Laboratory*

This award is given annually to an outstanding teacher at each veterinary school in North America, and the selection is based on results of a student ballot. The award recipient also is eligible to compete for the National Zoetis Distinguished Teacher Award. Dr. Christian joined the faculty in the Department of Comparative Pathobiology in 1993 and since 2001 also has served as lab director and section chief of clinical pathology in the Veterinary Teaching Hospital. Students praised him as a teacher who cares greatly about their learning the material and becoming knowledgeable, equipped doctors, yet also cares about the kind of people the students are going to become.

Excellence in Teaching Award

Dr. Jonathan Townsend, *clinical assistant professor of dairy production medicine and director of Purdue Veterinary Medicine extension programs*

This award is sponsored by the College of Veterinary Medicine, and recipients are chosen from nominations made by peers. Dr. Townsend joined the Veterinary Clinical Sciences department faculty in 2007. The award recognized

his outstanding teaching in veterinary medical education. He also was praised as an outstanding role model as an educator and mentor to veterinary and veterinary technology students.

Zoetis Award for Veterinary Research Excellence

Dr. Sulma Mohammed, *associate professor of cancer biology in the Department of Comparative Pathobiology and the Purdue University Center for Cancer Research*

Dr. Mohammed joined the Department of Comparative Pathobiology faculty in 2002. She also served as director of the Drug Discovery Shared Resource in the Purdue University Center for Cancer Research from 2002 to 2007. Dr. Mohammed's research and drug discovery work inspired her interest in developing a model to study breast cancer progression in dogs and women and to develop strategies for prevention. As a cancer researcher of Sudanese descent, she also has had a long-time interest in global oncology. She was instrumental in the reactivation of the African Organization for Research and Training in Cancer, or "AORTIC," which has become the Pan African cancer organization.



Excellence in Research Award

Dr. Deborah Knapp, *Dolores L. McCall Professor in Comparative Oncology*

Dr. Knapp joined the Department of Veterinary Clinical Sciences in 1990. She was promoted to full professor in 2002 and was appointed to the named Dolores L. McCall professorship in 2006. Dr. Knapp has served as the director of the Purdue Comparative Oncology Program since 1993 and as a member of the executive committee of the Purdue Center for Cancer Research since 1992. The award, which is sponsored by the College, recognized Dr. Knapp for exceptional success in conducting innovative basic and clinical research in comparative oncology that has significant national and international impact and enhances the recognition of the College of Veterinary Medicine and Purdue University.

PVM Excellence in Scholarship of Engagement Award

Dr. Lynetta Freeman, *associate professor of small animal surgery with a joint appointment in the Weldon School of Biomedical Engineering*

This award was established to honor Purdue Veterinary Medicine faculty who have demonstrated dedication and excellence in scholarly engagement endeavors that have impacted the College's constituents by addressing a community, professional, or societal need. The award recognized Dr. Freeman for her leadership efforts in providing surgical experiences for students while meeting an unmet community need for neutering shelter animals through the Priority 4 Paws program, which benefits both students and animals, and has led to strong, mutually beneficial relationships among shelters and PVM.

View photos of the Awards Celebration taken by photographer Ed Lausch on lauschphotography.com. At the login page, use the username "2017awards" and the password "september2017."

Page 34: The 2017 awards for Purdue Veterinary Medicine distinguished alumni were presented to (left-right) Kay Stewart, RVT, Dr. Susan Johnson, and Marilyn Scott, who accepted the posthumous award on behalf of her late husband, Dr. James Scott.

Page 35: Dean Willie Reed with Purdue Veterinary Medicine faculty award winners (left-right) Drs. Lynetta Freeman, S. Kathleen Salisbury, Deborah Knapp, John Christian, and Jonathan Townsend after the Awards Celebration held in the Purdue Memorial Union North Ballroom Wednesday, September 20.

Above: Dr. Sulma Mohammed, recipient of the Zoetis Award for Veterinary Research Excellence, with Dean Reed after the Awards Celebration.



FACULTY

Title IX DISTINGUISHED SERVICE AWARD PRESENTED TO DEAN WILLIE REED

Purdue Veterinary Medicine Dean Willie Reed was recognized October 5 as a recipient of Purdue University's 2017 Title IX Distinguished Service Award for his major contributions to the advancement of gender equality in education. Purdue Vice President for Ethics and Compliance Alyssa Rollock presented the award at a ceremony celebrating the 45th anniversary of the enactment of Title IX.

Rollock commended Dean Reed for his contributions in expanding the range and quality of the female student experience at Purdue, as well as his role in providing local and national leadership on issues related to gender equity and education at all levels. "Dr. Reed has worked tirelessly throughout his career to promote gender, ethnic, and racial diversity in the veterinary medical profession," Rollock said. "During his term as dean, there has been substantial progress in increasing the number of and support for female faculty. He was recognized for his work at the national level in 2011 when he received the Iverson-Bell Recognition Award, which is given by the Association of American Veterinary Medical Colleges."

"I'm almost speechless," Dean Reed said as he accepted the award. "These accomplishments are not things I've done by myself. We have great faculty, department heads, and senior leaders who have made a difference, and so I am pleased to accept this award on behalf of all the faculty, staff, and students in the College of Veterinary Medicine."

Dean Reed said he's proud that about 60 percent of the College's senior leadership team members are women, which is not typical in veterinary medicine. Noting that the veterinary profession is the



least diverse of all the healthcare professions, he recalled that when he became dean in 2007, he wanted to make a difference by developing a diversity program in veterinary medicine. “At the time, only about six percent of the veterinary students were underrepresented minorities. In the last several years, that number has risen to 20 percent. In fact, 35 percent of the most recent class that we admitted are underrepresented minority students,” Dean Reed said.

“I am very happy that we have encouraged people, women especially, to achieve their full potential. And that’s really what it’s all about; everyone achieving their full potential.”

While significant progress has been achieved in increasing diversity among veterinary students, Dean Reed said much less has been accomplished in terms of elevating women to leadership positions. “In fact, nationally, only about 20 percent of women hold leadership positions, and of the 30 veterinary colleges, only six are led by women.” Dean Reed said he has put a special emphasis on leadership opportunities for the College’s women faculty and on encouraging veterinary students to become leaders in the profession. “We want our new graduates to have a vision for becoming veterinary practice owners, for getting involved and aspiring to become presidents of national organizations. And some of them have done that,” Dean Reed said. “I am very happy that we have encouraged people, women especially, to achieve their full potential. And that’s really what it’s all about; everyone achieving their full potential.”

Dean Reed was one of five award recipients recognized at the ceremony.

Top: PVM Dean Willie Reed with Purdue’s Provost Jay Akridge and Vice President for Ethics and Compliance Alys Rollock at the Title IX Distinguished Service Award ceremony.

Bottom: Dean Willie Reed with fellow Title IX Distinguished Service Award recipients (left-right) Charlene Sullivan, Purdue Krannert School of Management associate dean of undergraduate programs and associate professor of management; Sharon Versyp, Purdue women’s basketball head coach; and Catherine Wright-Eger, Purdue Intercollegiate Athletics/John R. Wooden Leadership Institute leadership advisor.

Not pictured: Carole Oglesby, Temple University professor emerita, and private psychology and sports development consultant.



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Legendary Purdue Alumnus

Made Lasting Impact on PVM & Veterinary Profession

The Purdue Veterinary Medicine family and the veterinary medical profession lost a legendary alumnus and veterinarian this year when renowned veterinary urologist and University of Minnesota College of Veterinary Medicine faculty member Carl Osborne, of Roseville, Minn., passed away March 5. He was 76.

A member of the Purdue University College of Veterinary Medicine's second class, the Class of 1964, Dr. Osborne joined the faculty at the University of Minnesota the same year he graduated, and went on to earn his PhD degree there in 1970. He became a diplomate of the American College of Veterinary Internal Medicine two years later, and remained on the college's faculty 53 years.

A renowned specialist in nephrology and urology, Dr. Osborne chaired the college's Department of Small Animal Clinical Sciences and founded the Minnesota Urolith Center in 1981. Since then, the center has analyzed more than one million stones sent from around the world and continues to research the prevention of and cures for diseases of the urinary system in

companion animals. Dr. Osborne also was highly regarded for his abilities in teaching as well as research, earning more than 50 teaching and research awards over the course of his career. He also received the inaugural Robert R. Shomer Award for outstanding achievements in veterinary medical ethics in 2005.

Dr. Osborne's influence stretched far and wide, touching the lives of countless people and animals. "Dr. Osborne was one of the leaders in veterinary urology who changed the focus of management of urinary stones from surgery exclusively to also include medical dissolution and prevention of stone formation," said Purdue Veterinary Medicine Professor of Small Animal Internal Medicine Larry Adams, a protégé of Dr. Osborne. Dr. Adams said Dr. Osborne was the department chair who helped recruit him and his wife, Dr. Laurie Adams, to Minnesota's internship program, and then served as his co-major advisor when he began his residency and PhD program there.

"Dr. Osborne was an effective mentor in helping me understand research design for clinical research," Dr. Adams recalled. "Dr. Osborne encouraged my love of teaching in the veterinary teaching hospital and he was at least partially responsible for me accepting a faculty position at Purdue University." Dr. Adams also remembered Dr. Osborne as a supportive Purdue alumnus. "He established the Phi Zeta clinical case report competition at Purdue."

PVM alumnus Willis Parker (PU DVM '64) remembered Dr. Osborne as the classmate whose name immediately preceded his in alphabetical order. "We were part of the chosen second class," Dr. Parker said. "During our veterinary school years, Carl was a very focused student. He was serious. He was disciplined to achieve, to be at the front of the line. He had a routine of going back to the dormitory to take a long nap, eat and study, study, study."

Dr. Parker also recalled the friendship that developed between Dr. Osborne and a laboratory technician named Lynn in the clinical pathology laboratory. "She was watching for four years. Soon thereafter, she and Carl were married."

Dr. Osborne also was regarded as one of the University of Minnesota College of Veterinary Medicine's One Health pioneers and innovators in comparative medicine. In

recognition of his extraordinary career, the college created the Osborne-Hills Chair in Nephrology and Urology in 1998.

Dr. Osborne's loyalty to Purdue never wavered. He and his wife Lynn returned to the campus for class reunions and contributed financially in ways that reflected his desire to positively impact the College and its faculty, staff, and students. As an example, they gave the founding gift for establishment of the PVM Outstanding Staff Award, to recognize the excellence of endeavors by employees who are not faculty members. Begun in 1984, the award continues to be given annually to this day. In 1979, the College presented Dr. Osborne with the Distinguished Alumnus Award and in 1989, he received an honorary Purdue Doctor of Science degree.

"A very caring individual, he always was looking for ways to make a difference, whether by just offering a word of encouragement, sharing an uplifting saying, offering a helping hand to those in need, initiating awards to recognize the achievements of others, or pursuing revolutionary breakthroughs in veterinary and human medicine," said Purdue Veterinary Medicine Dean Willie Reed.





Dr. Osborne died from complications of Parkinson's disease, surrounded by his family and his longtime service dog and best friend, Chloe.

"Carl, it was such a pleasure to rub shoulders with you," Dr. Parker said as he concluded a eulogy at the memorial service. "The public and its animals have been exceptionally served."

Page 39: Dr. Carl Osborne accepts the PVM Distinguished Alumnus Award from then Dean Jack Stockton in 1979.

Page 40: Dr. Carl Osborne joins his classmates for the Class of 1964's 50th reunion photograph at the Meet Me @ the Mixer Reception during the 2014 Purdue Veterinary Conference.

Top: A loyal alumnus, Dr. Carl Osborne and his wife, Lynn, returned to Purdue with their son, David, and service dog, Chloe, in September 2014, for the Purdue Veterinary Conference and the celebration of the Class of 1964's 50th Anniversary.

Bottom: Dr. Carl Osborne shares a story during the 2014 Purdue Veterinary Conference Meet Me @ the Mixer Reception, accompanied by his classmates (left-right) Dr. Willis Parker and Dr. Frank McConnell, who joined him as the Class of 1964 was recognized on the occasion of its 50th reunion.



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Millsap Professor of Gerontological Nursing & Public Policy
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In Memory Class of '64 Alumnus & Civic Leader

Dr. Philip Michal, (PU DVM '64), former mayor of Crawfordsville, Ind., died October 9. He was 77. After earning his Purdue DVM degree in 1964, Dr. Michal and his family moved to Montgomery County where he had a veterinary practice near Wingate. In 1969, he built the Northwest Veterinary Hospital just outside Crawfordsville and remained in private veterinary practice there until retiring in

2013. Dr. Michal also actively served his community, most notably for three terms as mayor of Crawfordsville. Additionally, he served 14 years on the Montgomery County Board of Health and ten years on the Crawfordsville City Council. During his tenure as mayor, he chaired the Solid Waste District Committee for West Central Indiana and was an active participant in the Indiana Association of Cities and Towns.

Dr. Michal also volunteered with several community and charitable organizations, including the Crawfordsville Kiwanis Club; First Christian Church; the Court Appointed Special Advocate Program for juveniles in the Montgomery County court system; the Youth Service Bureau Juvenile Mentoring Program; and as a Red Coat at Franciscan Alliance Hospital in Crawfordsville. Dr. Michal also worked to raise awareness and funds to help fight world hunger, serving as chair of the Montgomery County Church World Service/CROP committee and the state CROP committee, and helping lead 30 Montgomery County CROP hunger walks. He also participated in mission trips to Haiti, Jamaica, and the Navajo reservation in New Mexico. His many years of public service, leadership, and volunteerism were recognized in 2014 by then Governor Mike Pence who honored him with the Sagamore of the Wabash Award, the highest honor the Indiana Governor bestows.

In lieu of flowers, gifts in Dr. Michal's memory can be made to the First Christian Church Memorial Fund, Rock Steady Boxing of Brownsburg (Fighting Back Against Parkinson's Disease), or CWS/CROP.

Top: Dr. Philip Michal, former Crawfordsville mayor and member of the Purdue DVM Class of '64, receives the Sagamore of the Wabash Award from the current Crawfordsville mayor, Todd Barton, in 2014. (Photo courtesy of the Crawfordsville Journal Review)

In Memory

PVM Founding Faculty Member

Donald Gustafson

Dr. Donald P. Gustafson (PU MS '51; PhD '53), Leo Philip Doyle Emeritus Professor of Virology, and a founding faculty member of the Purdue University College of Veterinary Medicine, passed away April 23, 2017. He was 96.

A World War II veteran, Dr. Gustafson was a captain in the Army. He earned his DVM degree at The Ohio State University College of Veterinary Medicine in 1945 and in 1949, he came to Purdue where he completed his master's and then his PhD in 1951 and 1953, respectively. A member of the faculty of the Department of Comparative Pathobiology, Dr. Gustafson served as chairman of the Curriculum Committee from 1957-1962, at which time both the pre-veterinary and professional Doctor of Veterinary Medicine curricula at Purdue were developed. His distinguished veterinary career included research, teaching, and consulting in the fields of virology and molecular biology. A diplomate of the American College of Veterinary Microbiologists, Dr. Gustafson was widely known for his expertise in animal viral diseases, including hog cholera, pseudorabies, sheep scrapie, chronic equine enteritis, and Newcastle disease.

A past chair of the American Veterinary Medical Association's (AVMA) Council on Biologic and Therapeutic Agents and a past member of the AVMA Council on Research, Dr. Gustafson also served on the Food and Drug Administration's Veterinary Medicine Advisory Committee and on the National Institute of Allergy and Infectious Diseases Research Resources Committee. In 1970, he received The Ohio State University College of Veterinary Medicine's Distinguished Alumnus Award. He also was honored as a recipient of the F. L. Hovde Award for contributions to animal agriculture in Indiana. During his 35 year tenure at Purdue, he served on the University Senate and various other university committees.

As a resident of West Lafayette, Dr. Gustafson was involved in a variety of Purdue and local organizations, including the Lafayette Rotary Club, Sigma Chi Fraternity, First United Methodist Church of West Lafayette, the Purdue President's Council, and the John Purdue Club. After retiring from Purdue in 1988, he served on the advisory board of the Lafayette Salvation Army, the executive board of Lafayette Rotary, the Tippecanoe County Historical Society, and was an active member of the Purdue Retirees Association. A certified U.S. Track and Field official, he also enjoyed working the track and cross-country meets at Purdue for 60 years.

Memorials may be made to the Disabled American Veterans, 575 N. Pennsylvania St. #324, Indianapolis, IN 46204, or Franciscan St. Elizabeth Hospice, 1415 Salem St. #202, Lafayette, IN 47904.



WELCOME NEW FACULTY

The following faculty members joined the Purdue University College of Veterinary Medicine this past year.



Dr. Brandy Cichocki was appointed as clinical assistant professor of small animal soft tissue surgery in the Department of Veterinary Clinical Sciences effective February 1. A Purdue alumna, she earned her DVM degree from the Purdue University College of Veterinary Medicine in 2012 followed by a master's degree and residency at Oklahoma State University. Dr. Cichocki's interests include minimally invasive and thoracic surgery.



Dr. Bianca Zenor joined the Purdue University College of Veterinary Medicine as the new director of the Veterinary Technology Program and clinical associate professor in the Department of Veterinary Administration effective April 10. A graduate of Purdue University, Dr. Zenor earned her master's degree in animal sciences before completing the doctor of veterinary medicine program at the College of Veterinary Medicine in 2001. Prior to returning to Purdue, Dr. Zenor most recently served as senior manager of U.S. Veterinary Affairs for Hill's Pet Nutrition, Inc. in Topeka, Kan.



Dr. Jiang Yang was appointed as research assistant professor in the Department of Comparative Pathobiology effective April 24. Dr. Yang earned her PhD from Tufts University. She then completed a postdoctoral fellowship at Boston Children's Hospital/Harvard Medical School. While at Harvard, Dr. Yang's research focused on breast cancer research, specifically the role of the oncogene lipocalin 2 in disease progression. She is currently working on studies to better define the role of cholesterol metabolism in prostate cancer. She brings a strong background in cancer biology and a wide-range of technical expertise that will enhance the cholesterol metabolism studies at Purdue.



Dr. Duncan Hockley joined PVM as director of the Veterinary Teaching Hospital and clinical associate professor in the Department of Veterinary Administration on June 1. A 1992 DVM graduate of the University of Saskatchewan's Western College of Veterinary Medicine, he co-owned and operated a successful mixed-animal practice. Additionally, due to his interest and expertise in bovine embryo transfer techniques, he worked in the animal health industry as a veterinary researcher and senior leader before returning to his alma mater to serve as its Veterinary Medical Center director prior to joining the Purdue Veterinary Medicine faculty.



Dr. Andrea Pires dos Santos became a faculty member in the Department of Comparative Pathobiology upon her appointment as assistant professor of veterinary clinical pathology July 1. Dr. Santos earned her DVM degree in 2001 followed by a master's degree in 2004 from the Universidade de Santa Maria in Brazil. She originally came to Purdue in 2007, as a visiting scholar conducting research for her PhD degree from the Universidade Federal do Rio Grande do Sul in Brazil, which she earned in 2008. Dr. Santos returned to Purdue in 2008 for post-doc research before also completing a residency/master's degree program in veterinary clinical pathology this summer.



Dr. Caroline Fulkerson was appointed as clinical assistant professor of diagnostic imaging in the Department of Veterinary Clinical Sciences effective July 17. An alumna of Purdue University, Dr. Fulkerson earned her DVM degree from the College of Veterinary Medicine in 2010. She then served as a continuing lecturer for the Purdue Veterinary Medicine Department of Veterinary Administration before completing an internship in the Purdue University Veterinary Teaching Hospital followed by a residency program in diagnostic imaging through the Department of Veterinary Clinical Sciences, which she completed earlier this summer.



Dr. Kari Ekenstedt joined the Department of Basic Medical Sciences as assistant professor of anatomy effective August 21. Dr. Ekenstedt earned her DVM degree in 2005 followed by a PhD in comparative and molecular biosciences in 2010, both from the University of Minnesota. Her research focuses on investigating the genetic basis of inherited neurological diseases in dogs. Dr. Ekenstedt previously taught undergraduate genetics at the University of Wisconsin – River Falls and veterinary gross anatomy and histology at the University of Minnesota. She now combines her dual passions of teaching and research at PVM, where she teaches gross anatomy and runs a canine genetics and genomics research laboratory.



Dr. Sanjeev Narayanan was appointed as head of the Department of Comparative Pathobiology and professor of diagnostic medicine and pathobiology August 1. He earned his BVSc degree at Madras Veterinary College in India in 1994 and his MS and PhD degrees at Kansas State in 1997 and 2001, respectively. A diplomate of the American College of Veterinary Microbiologists (virology and immunology) and the American College of Veterinary Pathologists, Dr. Narayanan's research focuses on the virulence and antimicrobial resistance of gut bacteria. He comes to PVM from the Kansas State University College of Veterinary Medicine where he served as professor of diagnostic medicine and pathobiology.



Dr. Marije Risselada joined the Department of Veterinary Clinical Sciences as assistant professor of small animal soft tissue surgery on August 14. Dr. Risselada earned her DVM degree in 1999 before completing a small animal surgery residency program in 2003 at Ghent University in Belgium. She then earned a PhD degree from Ghent in 2006 before completing a residency program in small animal surgery at the University of Florida in 2011. Dr. Risselada comes to PVM from North Carolina State University where she served as assistant professor of small animal soft tissue/oncologic surgery. She is a diplomate of both the European College of Veterinary Surgeons and the American College of Veterinary Surgeons.



Dr. Melissa Lewis became a member of the Department of Veterinary Clinical Sciences upon her appointment as assistant professor of neurology on September 5. Dr. Lewis earned her VMD degree from the University of Pennsylvania in 2010 before completing a neurology/neurosurgery residency program at North Carolina State University in 2014. She is currently in the process of completing a PhD in comparative biomedical sciences and the comparative medicine and translational research training program at North Carolina State University. Dr. Lewis is a diplomate of the American College of Veterinary Internal Medicine (neurology).



Dr. Deepti Pillai joined the Indiana Animal Disease Diagnostic Laboratory and the Purdue Veterinary Medicine Department of Comparative Pathobiology as clinical assistant professor of diagnostic microbiology effective October 2. Dr. Pillai earned her BVSc and MVSc (microbiology) degrees from Nagpur Veterinary College in India in 2003 and 2005, respectively. She then completed a PhD in diagnostic medicine and pathobiology in 2011 at Kansas State University, where she served as a research assistant professor. Dr. Pillai also is a diplomate of the American College of Veterinary Microbiologists (bacteriology). Her research interests include antimicrobial resistance and identifying critical bacterial targets as vaccine candidates.



@PUCVM **TOP TWEETS:**

Best wishes for Blade as he continues to improve! 3/1/17

Any mixed-breed dog lovers out there? Happy National Mutt Day! 7/31/17

Dr. O'Haire & her team have been researching how service dogs help us. ow.ly/fIF6308XQaH #onehealth #humanhealth #dogs #happy life 2/15/17



GIVING

Fundraising Success

LAYS FOUNDATION

for New Hospital Project Campaign

Record Giving Propels PVM toward Ever True Campaign Goal

Thanks to the abundant generosity of Purdue Veterinary Medicine alumni and friends, the Purdue University College of Veterinary Medicine reached 93% of its goal as part of the Purdue University Ever True Campaign as of the close of the 2016-2017 fiscal year on June 30. With achievement of the College's overall Ever True Campaign goal of \$40 million in sight, fundraising efforts now are focusing on the remaining support needed to meet the goal for Purdue Veterinary Medicine facilities. The Purdue University Ever True Campaign concludes in 2019, the University's 150th anniversary year.



EVER TRUE

Fiscal year 2016-2017 proved to be record breaking for the College of Veterinary Medicine, which raised \$8.76 million in private gifts, exceeding its fiscal year goal of \$5 million by 75 percent. That success brings the total raised by the College during the Ever True Campaign to \$37.2 million. That amount includes \$11.9 million for faculty support, \$9.4 million for programs, \$8 million for student support, and \$4.1 million for areas of greatest need (unrestricted). All of those totals exceed the goals originally set for those categories. However, the College still faces a significant unmet need for facilities, with only \$3.7 million raised toward the goal of \$18 million.

"We are very excited about our success so far in raising funds to meet our College's Ever True Campaign goals," said Purdue Veterinary Medicine Dean Willie Reed. "It is no small accomplishment to achieve and even exceed our campaign goals for faculty support, student support, programs, and unrestricted funds," he said. "We are so deeply grateful for the generosity of our contributors who are recognized in the Donor Honor Roll listed on the following pages."

Looking forward, Dean Reed explained that now the College must focus on meeting the remaining need for support of PVM facilities, especially the new Equine Hospital project. "We are only about 21 percent of the way toward our total campaign goal for PVM facilities – a goal that includes \$5 million in private funding for the new hospital," Dean Reed said. "I'm confident that as details of the new hospital project unfold, alumni, hospital clients, and friends of our College will step forward to help us create a truly outstanding facility dedicated to excellent treatment and care of large animal patients and the education of the next generation of equine practitioners and specialists."

The eye-catching structure will provide a number of special naming opportunities for donors, according to Purdue Veterinary Medicine Director of Advancement Chad Rohlfs. Those naming opportunities include the equine

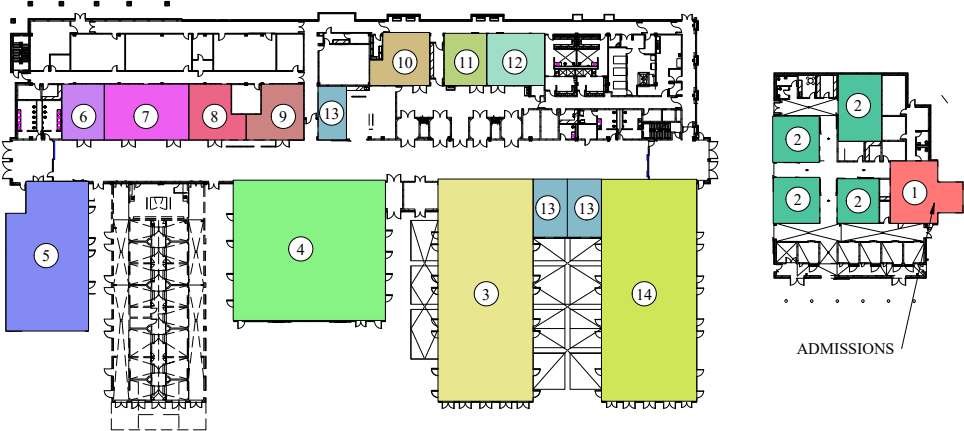
outpatient reception area and exam rooms; wards for surgery, reproductive systems (theriogenology), and medicine; an intensive care unit; and areas for nuclear medicine, radiology, MRI, CT, orthopedic surgery, general surgery, and rounds. “This is such an exciting time for our College,” said Chad. “The construction of this facility will provide once-in-a-lifetime opportunities for donors to support our College and be prominently recognized through the naming of these key areas in a marvelous new PVM equine hospital.” For more information about naming opportunities, contact the PVM Advancement Office at 765-494-6304 or pvmgiving@prf.org.

The total Purdue University Ever True Campaign goal is \$2.019 billion. So far, the University campaign has raised in excess of \$1.586 billion from more than 173,000 donors.

Phase 1: Equine Hospital Naming Opportunities

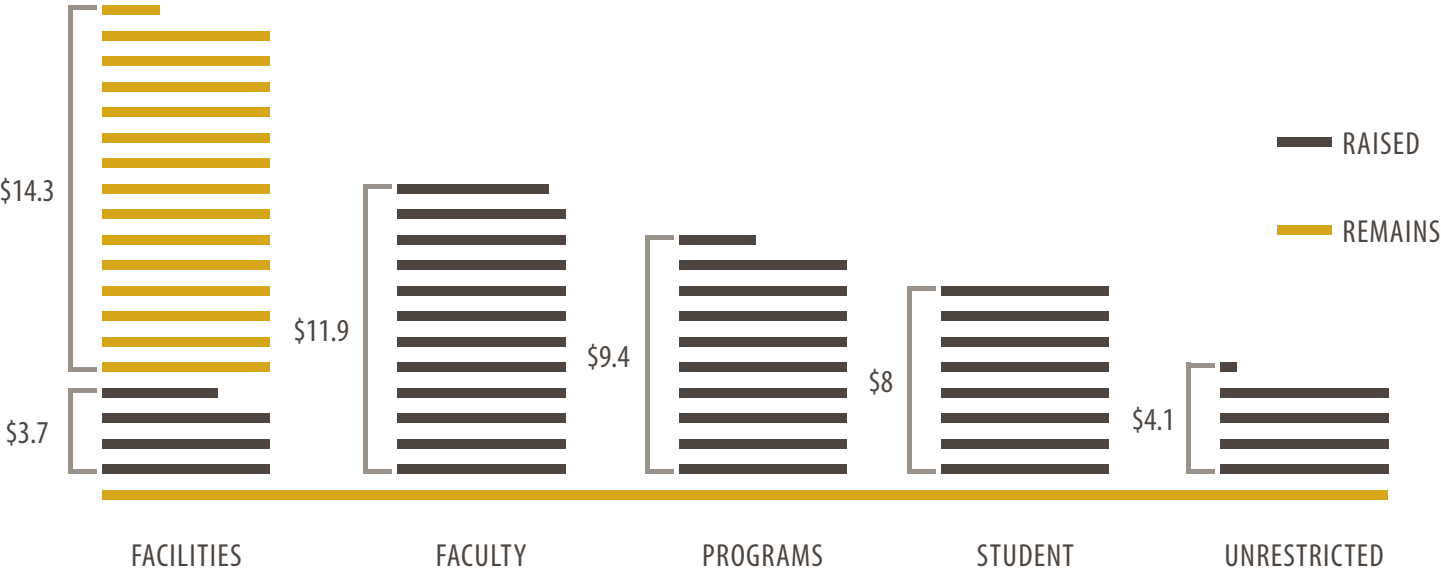
LEGEND

1.	O.P. RECEPTION	1,275 SF
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12.	SURGERY	1,023 SF
13.	ROUNDS ROOMS	1,870 SF
14.	MEDICINE WARD	7,180 SF



PVM: EVER TRUE CAMPAIGN PROGRESS

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We sincerely appreciate the generosity of our donors. Every effort has been made to ensure the accuracy of our donor lists. For questions or concerns about your listing, please contact the PVM Office of Advancement at (765) 494-6304.

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 Dr. Paul A. Williams and Mrs. Marilee Williams
 Mr. Gary Wolfelt and Ms. Esther Chosnek
 Ms. Susan Woosley
 Mr. Brian K. Yohler and Ms. Lisa Yohler
 Dr. David H. Younts

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.

AA Vetcare | Walton, IN
Aboite Animal Hospital Ltd. | Fort Wayne, IN
Albany Veterinary Clinic | Albany, IN
Albion Veterinary Clinic | Albion, IN
Alexandria Animal Hospital | Alexandria, IN
Animal Care Clinic of Randall Pointe | South Elgin, IL
Animal Care Clinic | Auburn, IN
Animal Care Clinic-Fox Valley | Algonquin, IL
Animal Clinic of Fort Atkinson | Fort Atkinson, WI
Animal Medical & Emergency Hospital | Columbus, OH
Auburn Animal Care Clinic | Auburn, IN
Augusta Animal Clinic | Indianapolis, IN
Beckett & Associates Vet Services LLC | Glastonbury, CT
Benevity AEF | Calgary, Canada
Bennington Veterinary Clinic | Bennington, NY
Brent Ross Crabtree, DVM, PC | Pendleton, IN
Brunswick Animal Hospital | Normal, IL
Bull's Head Pet Hospital | Stamford, CT
Bush Veterinary Services | Flora, IN
Care-Pets Animal Hospital | Sellersburg, IN
Cat Care | Lafayette, IN
Cicero Veterinary Clinic | Cicero, IN
Crawfordsville Veterinary Clinic | Crawfordsville, IN
Darlington Pet Clinic | Darlington, IN
Decatur Veterinary Hospital, PC | Decatur, IN
Dyer Animal Clinic | Dyer, IN
East Pines Animal Clinic | Boonville, IN
East Side Animal Hospital | Evansville, IN
Ehrlich Animal Hospital | Tampa, FL
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
Fountain Inn Animal Clinic | Simpsonville, SC
Garrett Veterinary Hospital | Garrett, IN
Glasgo Memorial Veterinary Hospital | Indianapolis, IN
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
Jackman's Animal Clinic, PC | 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
Laughery Valley Veterinary Hospital, 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 Animal Hospital | State College, PA
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
National Veterinary Associates | Agoura Hills, CA
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 Partners | Bellevue, WA
Pet Vac Animal Hospital | Spartanburg, SC
Peterborough Veterinary Clinic | Peterborough, NH
Plymouth Veterinary Clinic | Plymouth, IN
Portage Animal Clinic | Portage, IN
Princeton Veterinary Hospital | Princeton, IN
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
Shelton Pet Hospital | Shelbyville, IN

Silver Lake Sm Animal Vet Clinic | Silver Lake, IN
South 31 Veterinary Clinic | Indianapolis, IN
South Side Animal Hospital Inc. | Indianapolis, IN
Southlake Animal Hospital Inc. | Merrillville, IN
Spring Valley Veterinary Clinic | Schaumburg, IL
St. Joe Center Veterinary 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 Veterinary Clinic & Equine Center | 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 Street Veterinary Hospital | Indianapolis, IN
West Side Pet Hospital | Evansville, IN
Westside Animal Hospital | Fort Wayne, IN
Wilton Hospital for Animals | Wilton, CT



Purdue Veterinary Alumni Association

STRONGER TOGETHER.

The Purdue Veterinary Alumni Association (PVAA) is the alumni network for graduates of the Purdue University College of Veterinary Medicine. Support current students in their journey toward graduation and stay connected with fellow Boilermaker veterinary professionals.

Once a member of the PVM family, always a member of the PVM family.

Memberships are annual and will expire December 31. **Renew today!**

LEARN MORE: vet.purdue.edu/alumni/pvaa.php

MARK YOUR CALENDAR

for these special events & CE learning opportunities coming up in 2018:

FEB
6

Alumni Reception at the North American Veterinary Conference (NAVC) 2018 Veterinary Meeting & Expo
RSVP to vetalumni@purdue.edu

FEB
10

Attend the 2018 Horseman's Forum at Purdue
Learn more: vet.purdue.edu/ce/horsemans.php

MAR
1-4

Visit the PVM booth at the Indiana Veterinary Medical Association (IVMA) Annual Meeting

MAR
5

Alumni Reception at the 90th Annual Western Veterinary Conference (WVC)
RSVP to vetalumni@purdue.edu

MAR
25

Attend the 2018 Veterinary Technician Symposium
Learn more: vet.purdue.edu/ce/vettech.php

APR
14

Visit the PVM Open House and learn all about veterinary medicine with fun activities for all ages held in conjunction with Purdue's annual Spring Fest

MAY
12

Cheer on the Class of 2018 at the Purdue University commencement ceremony and with the annual College of Veterinary Medicine Oath Ceremony to follow

Stay up-to-date on the latest news and events! Visit the Purdue Veterinary Medicine website for the latest events and announcements.

Continuing Education

vet.purdue.edu/ce/workshops.php

Alumni & Friends

vet.purdue.edu/alumni/index.php