

# PVM

## REPORT

### 2015 ANNUAL REPORT EDITION



**TAKING STOCK OF  
PVM'S ECONOMIC  
IMPACT**



**PURDUE UNIVERSITY COLLEGE OF VETERINARY MEDICINE**

2015 Annual Report Edition

Volume XXXVIII - Number 3



PVM begins construction on new  
satellite equine facility



2015 commencement features PVM's  
first unified oath ceremony



DVM Class of 1965 celebrates  
Golden Anniversary

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# PVM

## 2015 ANNUAL REPORT



## ON THE COVER

Purdue University College of Veterinary Medicine student Ken Yoshida (DVM Class of 2016) examines a llama as part of the PVM Indiana State Fair Veterinary Services Team, which provided veterinary care to exhibition animals. The team made over 130 visits to treat cases that ranged from respiratory illnesses, lamenesses and bloats, to mild colics and ophthalmic conditions. The animals treated included pigs, beef and dairy cattle (including two oxen), goats, sheep, horses and ponies. This service is just one example of PVM's role in supporting animal health in the state of Indiana. Learn more about PVM's economic impact on the state in the cover story beginning on page 5.

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Facility



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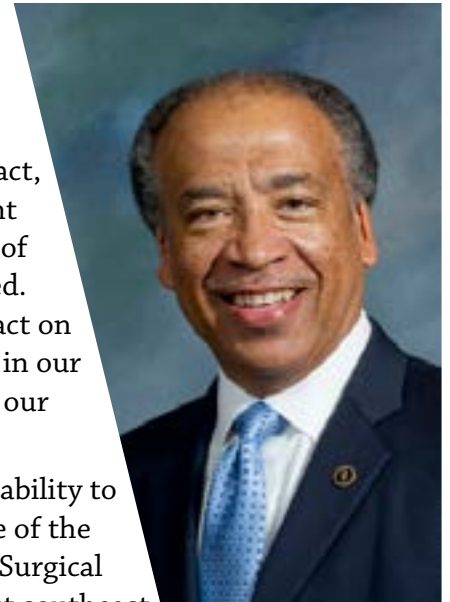
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Meet the PVM  
Advancement Team and  
View the 2015 Donor  
Honor Roll



# DEAN'S COLUMN

\$476.9 million. That's a big amount, even in today's world. We are excited to share with you, in this Annual Report issue of our PVM Report magazine, the Economic Impact Study that generated that number as the summation of the total economic output of the Purdue University College of Veterinary Medicine and our alumni in Indiana for 2014. Measuring our economic impact, in the context of the state that gave us our land grant charter, is an important part of telling our story. Within the veterinary medical profession, the value of our College, as one of only 30 veterinary colleges in the U.S. is well-recognized. However, outside of our profession, there is much less awareness of our impact on economic activity. The summary provided by this study is a needed resource in our efforts to broaden appreciation for our contributions to the overall health of our state and our nation.



A recent groundbreaking ceremony provided a wonderful example of our capability to positively impact the economy. On the following pages, you will see coverage of the ceremonial start of construction on the new Centaur Equine Diagnostic and Surgical Center, which is taking physical shape in the farm fields of Shelby County just southeast of Indianapolis. Our College has a long history of delivering top-quality medical and surgical treatment for equine patients through our Large Animal Hospital in West Lafayette, but that location sometimes limits the hospital's accessibility. This new facility in Shelbyville, Ind., will expand the range of cases that can be referred for the kind of advanced treatment available at a veterinary college teaching hospital. The interest and enthusiasm for this initiative came from a wonderful coalition of people representing our College, Shelby County and the City of Shelbyville, the equine industry, and our alumni, especially alumnus and former state senator Bob Jackman.

These are just some of the developments we are excited about as we reflect on the past year. Looking to the future, we are guided by a new strategic plan developed with input received from our stakeholder groups. I appreciate everyone's participation in this vital initiative, which will shape the future direction of our College. The plan for the period of 2015-2020 outlines five focus areas, in the context of the College's strategic themes of education, discovery and engagement. Several teams of faculty and staff are finalizing detailed plans to address the goals outlined for each strategic theme.

Our achievements will build on key attributes of our College that were affirmed through this strategic planning effort: we are welcoming; we are committed to an inclusive climate and increased diversity in veterinary medicine; we are like a family in our compassionate commitment to ensuring everyone's success; we treasure our College's heritage of providing excellent hands-on education to train students that are "career-ready;" we are entrepreneurs in medical discovery; and we love our profession and its potential to improve the health and well-being of animals and people. Click here to access PVM ePubs for a summary of the plan, where you also can download the PVM ePubs app, which will give you easy access to the plan, as well as a variety of other publications from our College, on your mobile device.

Another key component of our success is the generous financial support we receive from our alumni and friends, who are recognized in the Donor Honor Roll contained in this Annual Report issue. To all of our contributors we say thank you for being important partners in the positive impacts we are making on our world today, and the brighter future we are building for tomorrow.

Willie M. Reed, DVM, PhD  
Dean

# NEW STUDY RINGS-UP \$476.9 MILLION IN ECONOMIC OUTPUT STATEWIDE FROM PVM AND ITS ALUMNI

Veterinary medicine touches many lives – both human and animal. Society depends on veterinary healthcare professionals to keep animals healthy, pursue better treatments for diseases of animals and humans, and protect public health and food safety. As Indiana's only veterinary school, the Purdue University College of Veterinary Medicine (PVM) not only serves as a vital veterinary healthcare resource for the state, but also produces an economic impact on the state valued at hundreds of millions of dollars. To measure that impact, Purdue University Extension's Community Development Program conducted an Economic Impact Study. Using figures for 2014, the most recent available, the study documented the aggregate effect of the College on the Indiana economy.

Statistics on animal ownership in Indiana help set the stage for understanding the magnitude of Purdue Veterinary Medicine's economic impact. The study reported that more than half of all Indiana households own a pet and 40 percent of pet owners visited a veterinarian at least once in the past year. Beyond companion animals, the state has approximately 22,400 farms producing livestock, poultry and related products valued at \$3.68 billion. Indiana ranks first in duck production, third in egg production, third in turkey production, and fifth in swine production. Indiana depends on the veterinary medical profession to care for the health needs of these animals, ensure a safe and secure food supply, and protect public health.

The study also noted that more than 60 percent of Indiana's veterinarians and 30 percent of the state's registered veterinary technicians are Purdue alumni. Additionally, the Indiana State Veterinarian and 16 of 17 staff veterinarians at the Indiana State Board of Animal Health are graduates of the Purdue University College of Veterinary Medicine. Veterinary professionals also are essential to research that benefits both animals and humans. Since people and animals share common health conditions such as diabetes, asthma, and cancer, advances in veterinary medicine, such as new cancer treatments for animals developed at Purdue, are often used to advance human health.

The Purdue University College of Veterinary Medicine is one of only 30 U.S. veterinary colleges supplying the workforce with accomplished veterinarians and veterinary technicians. Purdue Veterinary Medicine



also is one of only four U.S. programs that trains the entire veterinary team. By educating both veterinarians and veterinary technicians (who are the nurses in the veterinary medical profession), the College graduates veterinary professionals who know first-hand how effective teamwork leads to excellence.

## Key Findings

The study concluded that the College of Veterinary Medicine and its alumni significantly impacted the Indiana economy through direct and indirect economic output and by generating good-paying jobs.

- Collectively, the Purdue College of Veterinary Medicine and its alumni had a total economic output of \$476.9 million. Nearly half of the output (\$219.2 million) was derived from increased economic activity from the initial direct expenditures. PVM and its alumni contributed a net of \$311.4 million to the state's GDP.
- The economic output of the College itself was \$220.2 million in 2014, of which \$83.2 million was the result of the ripple effects from the initial direct effect. Slightly more than half of the College's total output contributed to the state's GDP.
- The College's alumni who are veterinarians and veterinary technicians in Indiana spurred \$136.1 million in additional economic activity in the state, thus producing an economic footprint of \$256.7 million, of which 76 percent contributed to the state's GDP. Purdue Veterinary Medicine has graduated 4,445 students with degrees in veterinary medicine or veterinary technology since 1959. Today Purdue alumni represent 63 percent of Indiana's veterinarians and 30 percent of the state's registered veterinary technicians.
- An additional 1,749 jobs paying approximately \$52,400 per worker were supported by the combined effects of the College and its alumni.
- Every 10 jobs directly related to PVM and its alumni supported an additional eight jobs at other Indiana businesses in 2014. The employment multiplier, the ratio of total employment to direct employment effects, was 1.83.
- As the primary contributors of the PVM alumni's economic contribution to the state (80 percent),

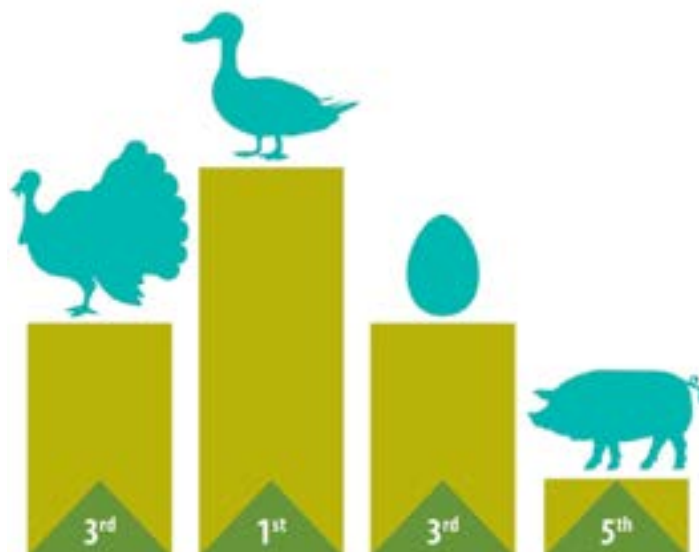


Figure 1: Indiana State Commodities Rankings

veterinarians generated \$113.6 million in increased economic activity and supported 868 jobs via indirect or induced effects.

- An estimated \$28.6 million in state and local government tax revenues and \$46.7 million in federal government collections were produced in 2014 as a result of the economic activity generated by PVM and its alumni.

## PVM Vision and Mission

The College's impact on Indiana reflects the common vision shared by the faculty, staff, students and alumni who make up the Purdue Veterinary Medicine family:

- PVM graduates will excel in their choice of veterinary/biomedical careers.
- PVM will advance global animal and human health and well-being through transformational and interdisciplinary research.
- PVM will be a recognized authority for animal and public health through collaborations in medical care, diagnostics, education and discovery.

The College's mission is to advance global animal and human health and well-being through excellence in learning, discovery and engagement. To fulfill this mission, the College promotes excellence by holding to the following core values:

- Promote a collegial work and learning environment enhanced by diversity.
- Emphasize innovation and delivery in PVM learning, discovery, and engagement programs.

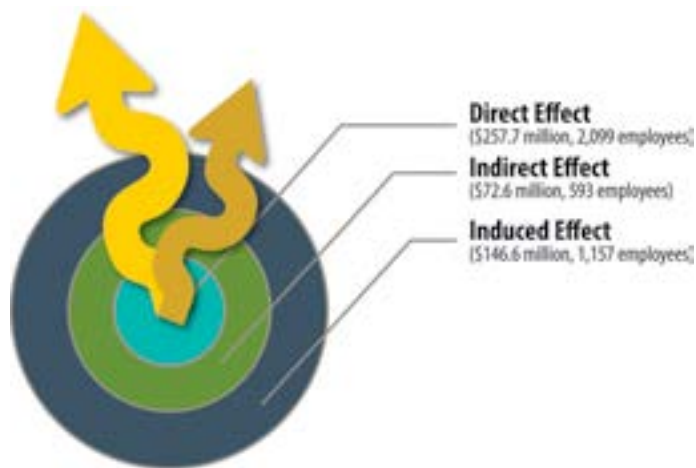


Figure 2: Purdue University College of Veterinary Medicine Economic Contribution to Indiana, 2014

- Actively support individual development of PVM faculty, staff, and students such that they can achieve their full potential as biomedical scientists, professionals, and individuals.
- Encourage collaborative, multidisciplinary discovery programs providing a continuum of basic science to applied research benefiting both animal and human health.
- Encourage participation in activities that enhance the veterinary profession and the reputation of the College.

Purdue-educated veterinarians have experienced high employment rates (including internships) upon graduation, as evidenced most recently by the Class of 2015, which enjoyed a 100 percent employment rate. Nearly two-thirds of the DVM alumni are practicing in Indiana today. Concurrently, almost one-third of the state's registered veterinary technicians are Purdue graduates.

PVM has several components that work together to enrich the education of students, magnify the College's ability to serve the general public, and amplify the College's contributions to the advancement of the discipline (see Figure 3). With an employment level of more than 650 individuals, as of June 2015, the College's operating budget exceeds \$50 million. PVM includes two major operating units: the Veterinary Teaching Hospital (VTH) and the Indiana Animal Disease Diagnostic Laboratory (ADDL).

The VTH has three missions: teaching students, facilitating clinical studies of animal diseases, and providing veterinary services to the animal-owning public. Most cases are referred to the

VTH by veterinarians practicing in Indiana or the surrounding states. Specialty services are provided to both small and large animals including internal medicine, surgery and emergency critical care. In the 2013-2014 fiscal year, the hospital serviced nearly 8,700 clients, half of which were new clients, for a total of 42,050 cases (including follow-up appointments). The quantity of clients served increased 50 percent between the 2008-2009 and the 2013-2014 fiscal years, due in part to the acquisition of a local small animal emergency service which currently sees around 3,700 cases a year.

The ADDL serves as Indiana's accredited full-service veterinary diagnostic laboratory with testing capabilities for all types of animal diseases in livestock, poultry, companion animals, and wildlife. ADDL services are offered both at the West Lafayette campus as well as at a satellite facility, called the Heeke Lab, in Dubois County, which is in proximity to much of Indiana's poultry industry as well as numerous cattle operations. The ADDL works in collaboration with PVM, the Purdue College of Agriculture, Indiana Board of Animal Health, state agencies, United States Department of Agriculture, local veterinarians, the livestock industry and



Figure 3: Components of Purdue University College of Veterinary Medicine, 2014

animal owners to find, control and eradicate animal diseases. To complete this mission, the ADDL employs veterinary specialists in pathology, bacteriology, virology, toxicology, avian medicine and diagnostics. Additionally, a wide variety of tests for bacterial, fungal, viral, prion, parasitic, neoplastic, immunological and chemically-induced diseases are available for clients. In fiscal year 2013 the ADDL received 22,706 cases, which involved performing 106,020 tests for 749 unique clients.

### PVM and Alumni Promote Economic Health

Since the first class of veterinary students enrolled in 1959, the College’s educational programs have prepared thousands of graduates for important careers in the veterinary medical profession. As of March 2014, PVM had graduated over 4,800 alumni with the majority receiving a Doctor of Veterinary Medicine (DVM) degree. Upon graduation, veterinarians have multiple employment opportunities including working in private practice (e.g. companion animal, food animal, mixed animal, equine), public practice (e.g. university, government, uniformed services), industry and non-profits. According to the American Veterinary Medical Association, in 2014, 81.4 percent of Purdue graduates were in private practices with the largest share treating small animals (see Table 1).

Data for all Indiana AVMA members show that the aggregate population of veterinarians in Indiana are engaged in activities that closely align with those of Purdue graduates. While the information presented in Table 1 is valuable, it does not tell the full story about PVM or its alumni. In particular, it

does not capture the economic contribution of the College or its alumni to the state of Indiana. Many veterinarians operate their own businesses, thus their establishments have an impact on their local economy. Similarly, the College has an effect on the economy via its income and expenditures, including payroll. Every purchase by the College triggers a chain reaction of economic activity amongst the College’s suppliers and employees. As a result, there are economic ripple effects throughout the state from PVM and its alumni.

The economic benefits provided by PVM and its alumni to the Indiana economy, as summarized in the economic impact study, involve conservative estimates since non-Purdue alumni veterinarians likely also utilize PVM’s services. Additionally, Indiana residents who live close to a state border may utilize a PVM veterinarian who practices in the neighboring state. Capturing these circumstances was beyond the current study’s intended scope. [Click here](#) for the full analysis included in the complete “2014 Economic Impact of Purdue’s College of Veterinary Medicine on the State of Indiana.”

*The Purdue University College of Veterinary Medicine gratefully acknowledges Tanya J. Hall, Community Development Regional Extension Educator, Purdue University, for preparing the economic impact study report.*

Table 1: PVM Veterinarian Alumni Employment Distribution, 2014

	AVMA Members	
	Purdue Graduates	All Indiana DVMs
Private Practice	81.4%	79.2%
Small Animal	85.4%	85.6%
Large Animal	11.0%	10.9%
Mixed Animal	3.5%	3.5%
Public Practice	10.2%	11.6%
Industry	6.1%	7.2%
Other	2.3%	1.9%

Source: Purdue Extension using data from AVMA

<sup>1</sup> Data came from ESRI’s Pets and Products Market Potential data for Indiana.  
<sup>2</sup> Data came from the 2012 Census of Agriculture, United States Department of Agriculture.



# ENGAGEMENT

## PURDUE VETERINARY MEDICINE BREAKS GROUND FOR \$8.8 MILLION EQUINE FACILITY

Indiana Grand representatives present Dean Willie Reed with a customized race blanket in the winner's circle after the commemorative race held following the groundbreaking ceremony for the Centaur Equine Diagnostic and Surgical Center. Pictured (left to right): Vice President of Indiana Grand Jon Schuster, Chairman and CEO of Centaur Gaming Rod Ratcliff, Dean Willie Reed, Retired Senator Bob Jackman (PU DVM '67), President of the Shelby County Board of Commissioners Kevin Nigh, Shelbyville Mayor Tom DeBaun, President and Chief Operating Officer of Centaur Gaming Jim Brown, and Vice President of Hoosier Park Rick Moore.

Purdue Veterinary Medicine celebrated the start of construction of the new \$8.8 million Centaur Equine Diagnostic and Surgical Center with a groundbreaking ceremony Tuesday, October 20, in Shelbyville, Ind. The satellite facility will provide specialty medical and surgical services for horse owners, while supporting equine research and education of future equine specialists. With site work already underway, the ceremony took place trackside at Indiana Grand Racing & Casino.

Dean Willie Reed started the ceremony by welcoming guests and sharing about the facility's importance in enhancing the College's outreach and engagement efforts in support of the state's equine industry. "This is an exciting day that marks a major milestone in our dream of creating a state-of-the-art equine referral hospital on location in the heart of Indiana's horse racing industry, enabling our College to bring advanced medical and surgical services directly to the equine athletes and their owners," said Dean Reed.

"This center will house the most technologically advanced medical equipment to diagnose and treat equine patients while also facilitating groundbreaking research and vital educational opportunities for students preparing for careers as equine specialists."

The 18,000 square foot state-of-the-art facility is slated for completion by late 2016. Located just a few miles from the Indiana Grand Racing & Casino's track in Shelbyville, and within an hour's drive from Hoosier Park in Anderson, Ind., the facility will be part of the Purdue Equine Sports Medicine program based on the West Lafayette campus. It will offer advanced diagnostic imaging, shockwave therapy, regenerative medicine, endoscopy, laser surgery and specialized equine orthopedic surgery.

"This new facility complements Purdue University's longstanding commitment to serving the equine industry and will continue to build on what the Indiana Horse Racing Commission and so many in Indiana's horse racing industry have worked toward

for the last 20 years – making Indiana a top-notch racing state and a recognized leader in the sport,” said Rod Ratcliff, Centaur Gaming chairman and CEO. Indianapolis-based Centaur Gaming, founded in 1993, owns and operates Indiana Grand Racing & Casino in Shelbyville; Hoosier Park Racing & Casino in Anderson; the Winner’s Circle Pub, Grille & OTB in Indianapolis as well as additional off-track betting operations in Clarksville and New Haven, Ind.

The ceremony also featured remarks by Kevin Nigh, President of the Shelby County Board of Commissioners and Purdue President Mitch Daniels. Then Dean Reed joined the others on the stage to ceremonially break ground. A reception followed as well as a commemorative horse race – the “Purdue Veterinary Medicine Classic,” named in honor of the College. After the race, Indiana Grand presented a commemorative horse blanket embossed with the date of the event and the College’s logo.



Dean Willie Reed, Chairman and CEO of Centaur Gaming Rod Ratcliff, President Mitch Daniels, President of the Shelby County Board of Commissioners Kevin Nigh, and Shelbyville Mayor Tom DeBaun ceremonially break ground for the Centaur Equine Diagnostic and Surgical Center.

## \$1.26 MILLION NIH GRANT EXPANDS PVM AFTER-SCHOOL SCIENCE PROGRAM NATIONWIDE



Dr. Sandy San Miguel, PVM associate dean for engagement, captivates the attention of children at Lafayette’s Hanna Community Center.

Many people do not realize the vital role that veterinarians play in keeping people healthy, and that lack of awareness is especially true among elementary school students. Changing that is the goal of a \$1.26 million Science Education Partnership Award (SEPA) granted to the Purdue University College of Veterinary Medicine from the Office of Research Infrastructure Programs, a component of the National Institutes of Health.

The only veterinary medical college with a SEPA award, Purdue Veterinary Medicine will lead a team of experts that will spread this message nationwide through an after-school role-modeling program. Called “This is How We ‘Role’,” the program will provide interactive science and math experiences to students in





Purdue veterinary student ambassador Corina Collins, DVM Class of 2016, enjoys teaching children in the after-school science program at the Hanna Community Center.

kindergarten through fourth grade, according to Dr. Sandy San Miguel, the principal investigator and associate dean for engagement in the College of Veterinary Medicine.

Students will learn how veterinarian-scientists develop methods to prevent and treat human health conditions as they help cows with diabetes, dogs with cancer, and horses with asthma. Veterinary medical students, veterinary technology students and veterinary scientists will receive training to deliver the program, which is being developed through a collaboration among veterinarians and elementary school teachers, in a culturally responsive manner, with help from experts at Purdue and the Kingston Bay Group, an education consulting agency.

A partnership with Purdue's College of Liberal Arts will help deliver the program in English and Spanish, and assessment experts at Purdue's Discovery Learning Research Center in Discovery Park will provide a rigorous assessment of the program's impact. The program will focus on students who are educationally disadvantaged due to socioeconomic status, race, or ethnicity with the long-term goal of diversifying the veterinarian-scientist workforce.

"These children have already developed creative problem-solving skills and have experience overcoming unexpected challenges, and both of those qualities are essential for good scientists," said Dr. San Miguel. "They are the future veterinarian-

scientists who are going to find cures for cancer and change our world so we need to instill a passion in them for this work early on in their education."

For the past six years, Dr. San Miguel and many members of the current team partnered on another NIH SEPA project called, "Fat Dogs and Coughing Horses: Animal Contributions to a Healthier Citizenry." That partnership with K-12 teachers and other Purdue experts led to the development of formal curricula for elementary,

middle and high school students, as well as books and traveling exhibits.

"We found that the program had the greatest impact on the elementary school students' attitudes toward school, science, and career aspirations, so we decided to focus on them outside of the classroom," Dr. San Miguel said. The College of Veterinary Medicine started delivering some of the veterinary lessons to children through the after-school program at the Hanna Community Center in Lafayette, Ind.

"We wanted to deliver the programs in Spanish as well, but didn't have the expertise," Dr. San Miguel said. "When I met Dr. Alejandro Cuza-Blanco, associate professor of Spanish linguistics in the School of Languages and Cultures in the College of Liberal Arts, I learned he had a wonderful after-school Spanish program at a local elementary school and was looking for a science partner. It was a perfect match! Thanks to NIH SEPA we now have the opportunity for our programs to have a national impact."

The new SEPA program will begin with the development of veterinary lessons in English and Spanish that meet Next Generation Science Standards. According to Dr. San Miguel, within five years, they hope to have "This is How We Role" programs at all 30 colleges of veterinary medicine in the U.S.



# PVM ON DISPLAY

at the Indiana State Fair



Assisted by a Purdue veterinary student, Dr. Jim Weisman performs a neuter surgery at the Indiana State Fair on a Humane Society pet that needed the procedure in order to be adopted.



Visitors to the Purdue Veterinary Medicine exhibit test out their surgical skills in an interactive display. The College exhibit hosted approximately 700 visitors each day.

Purdue Veterinary Medicine was in the spotlight at the 2015 Indiana State Fair in Indianapolis, where a large tent on the north side of the fairgrounds housed live surgery demonstrations, educational presentations and the Indiana State Fair Vet Camp. The surgery demonstrations represented a cooperative effort between the College of Veterinary Medicine and the Indiana Veterinary Medical Association. For most of the State Fair's 17 days, visitors were able to witness surgeries that were needed to prepare Humane Society pets for adoption. The surgeries were offered twice daily, except on three days when presentations on animal or medical topics were given by veterinarians in lieu of the surgery demonstrations.

## Children Flock to Indiana State Fair Vet Camp

Several veterinary student ambassadors for the College served as instructors in the Indiana State Fair Vet Camp and also interacted with the many State Fair attendees who visited the PVM exhibit. The exhibit hosted approximately 700 people per day, and nearly 140 students took part in the Indiana State Fair Vet Camp. Participants in the vet camp developed even greater enthusiasm for veterinary medicine. The Indiana State Fair Vet Camp was modeled after Boiler Vet Camp with the Junior Vet Camp open to students in sixth through eighth grades and the Senior Vet Camp open to students in grades 9 through 12. Participants got to experience various veterinary duties, including suturing and reading x-rays.



Young visitors study microscope slides in an interactive display at the PVM exhibit.



An Indiana State Fair Vet Camper practices suturing. Nearly 140 students took part in the Indiana State Fair Vet Camp.

## Dr. Sandy Taylor Represents Large Animal Veterinarians at Indiana State Fair

Visitors to the Normandy Barn located on the north side of the Indiana State Fairgrounds saw a life-size representation of a large animal veterinarian, based on a photo that was taken at Lynn Hall of Dr. Sandy Taylor, Purdue Veterinary Medicine assistant professor of large animal internal medicine. Dr. Taylor was pictured as part of the Indiana Agriculture exhibit entitled, “Beyond the Farm.” The theme for the 2015 Indiana State Fair was the “Year of the Farmer.” The exhibit invited visitors to picture themselves in various roles related to agriculture, including as an engineer, scientist, forest ranger or veterinarian. Dr. Taylor was identified in the exhibit as a large animal internal medicine specialist at Purdue University. Her likeness also was featured in a life-size picture with Whitey the horse that included a cut-out so visitors could have their photos taken as if they were filling the role of a large animal veterinarian. The photos of Dr. Taylor and Whitey were taken by photographer Ed Lausch. The display was prepared by an exhibit company for the Indiana State Department of Agriculture to promote the many jobs and professions within the various areas of agriculture in Indiana.



Members of the 2015 PVM Indiana State Fair Veterinary Services Team: (Front Row - left to right): Ken Yoshida, Janelle Davidson, Katelyn Jackson, Katie Smith, Brooke Wehr and Eric Putman; (Back Row) Dr. Jon Townsend, Cody Anspach and Chris Brahos. (Not Pictured: Drs. Darryl Ragland, Bethany Funnell and Jim Weisman.)

## PVM Helps Care for State Fair Exhibition Animals

In addition to providing demonstrations and learning activities at the PVM exhibit during the Indiana State Fair, the College once again played a major role behind the scenes. For the second year in a row, PVM faculty and veterinary students provided veterinary care for the stars of the State Fair – the exhibition animals that are a major attraction for many fairgoers. Dr. Jon Townsend, assistant professor of dairy production medicine and director of extension programs, led the special clinical block with 4<sup>th</sup> year students Cody Anspach, Chris Brahos, Brooke Wehr, Eric Putman, Katie Smith, Ken Yoshida, Katelyn Jackson, and Janelle Davidson to provide veterinary services to all the exhibition animals at the State Fair from August 4 through August 23.

Additionally, Dr. Darryl Ragland, associate professor of food animal production medicine, and Dr. Bethany Funnell, clinical assistant professor of bovine theriogenology, provided their expertise and time and allowed Dr. Townsend to help his daughters show their heifers in the 4-H Dairy Show. Members of the block were on-call to examine and treat exhibition animals during the day and night.

During the course of the block, more than 130 visits were made to treat cases that ranged from respiratory illnesses, lamenesses and bloats, to mild colics and ophthalmic conditions. The animals treated included pigs, beef and dairy cattle (including two oxen), goats, sheep, horses and ponies. Among those animals were demo animals from the State Fair’s “Pioneer Village” and several class champions. The service proved to be a “win-win” situation as many positive comments were received from exhibitors, pleased with the level of service they received, while veterinary students got an opportunity to learn in an environment in which they will be involved in the future. Plans call for continuing this excellent outreach and education program into the future. The 2015 Indiana State Fair hosted over 907,000 attendees, the fifth-highest attendance of all time.



# ANIMAL DISEASE DIAGNOSTIC LABORATORY JOINS PURDUE VETERINARY MEDICINE

As of January 1, 2015, the administration of the Animal Disease Diagnostic Laboratory (ADDL) at Purdue University transitioned from the College of Agriculture to the College of Veterinary Medicine. The move reflects the ADDL's close relationship with teaching, engagement and scholarly activities within Purdue Veterinary Medicine (PVM) and the Veterinary Teaching Hospital. Incorporation of the ADDL into PVM is expected to enhance joint efforts to meet the needs of veterinarians and animal owners throughout the state.

The ADDL serves to aid the people of Indiana and the nation in the prevention, control, and eradication of animal diseases by diagnosing diseases in livestock, poultry, companion animals, and fish and wildlife, as well as by providing blood testing of animals for show, sale, and federal and state disease programs. The laboratory works with local, state, federal, and international partners to meet current and future needs.

The ADDL is a full-service diagnostic facility with state-of-the-art equipment and nationally and internationally recognized staff. In the past fiscal year, the ADDL saw 24,214 cases, performed 102,451 examinations, and completed 1,878 necropsies. The main laboratory is located on the Purdue University campus, adjacent to the College of Veterinary Medicine, in West Lafayette, Ind. Additionally, the ADDL operates a branch laboratory, Heeke ADDL, which is located at the Southern Indiana Purdue Agriculture Center in Dubois County.

## In Memory

The Purdue Veterinary Medicine family was saddened to learn of the passing of these two professors emeriti:



Professor Emeritus Charles Kanitz

**Dr. Charles Kanitz (PU DVM '64)** of Lafayette, Professor Emeritus of Veterinary Virology and former head of the Virology and Serology Sections of the Animal Disease Diagnostic Laboratory, died Tuesday, September 22. He was 80.

A United States Air Force veteran, Dr. Kanitz earned his DVM degree at Purdue University in 1964, and went on to earn his M.S. degree in 1968 and his Ph.D. in 1972. He played a key role in efforts to eradicate hog cholera, collaborated to develop a vaccine against pseudorabies and traveled internationally sharing his expertise with the swine industry. He received several awards including the American Association of Veterinary Laboratory Diagnosticians (AAVLD) Life Member award for significant contributions in the field of diagnostic medicine, and the AAVLD Pioneer in Virology Award. He retired in 2001. Gifts in memory of Dr. Kanitz may be made to the Alzheimer's Association.



Professor Emeritus Roger Lukens

**Dr. Roger Lukens**, Purdue Veterinary Medicine Professor Emeritus of Veterinary Technology, died Tuesday, May 12, at his home in Medicine Lodge, Kan. He was 73. Dr. Lukens earned his DVM degree from the Kansas State University College of Veterinary Medicine in 1966. In 1969, he began teaching at Colby Community College in Colby, Kan., and set-up the Animal Health Technology Program. Dr. Lukens joined the Purdue Veterinary Medicine faculty in 1975 and became the founding director of the Purdue Veterinary Technology Program, which started that year. He retired in 2006. His daughter, Dr. Melissa Lukens Knoll, is a PVM alumna who earned her Purdue DVM degree in 1998. Memorials may be made to the Medicine Lodge Lions Club in care of the Larrison Funeral Home.



# INTERNATIONAL ENGAGEMENT

## Faculty and Student Exchanges Keep PVM and Kitasato University Connected

### PVM Professor's Visit to Japan is Precursor to Japanese Students' Purdue Visit

*By Dr. Joanne Messick, Professor of Veterinary Clinical Pathology in the Department of Comparative Pathobiology*

Between June 28 and July 4, I traveled to Japan to meet with the veterinary faculty and students at Kitasato University. Dr. Satomi Iwai meticulously planned my travels, ensuring that I didn't get lost between Tokyo and the town of Towada-city where the veterinary school is located. The return trip using the high-speed rail gave me an opportunity to see the countryside, and many towns, cities and rice fields along the way.

While at Kitasato, I gave a hematology lecture to the 1st year students – approach to anemia in the first hour and case discussions in the second hour; and taught the second year students by discussing laboratory evaluation of the liver and working through six case examples with them. I also had the opportunity to present my research – “Have the hemoplasma evolved toward a ‘benign’ coexistence with their hosts?”

My visit also included many memorable meals including Japanese pancakes, sushi, and lots of wonderful fish, to mention just a few! It was a delight to meet with Dr. Shinji Takai, the Dean of the School of Veterinary Medicine, and to learn about his research interest and passion for furthering our understanding of pathogenesis of *Rhodococcus equi*.

It is my hope that in the future, Purdue and Kitasato



(left-right) PVM clinical year veterinary student Rebecca Brunt with Kitasato University students Akinori Tauchi and Yu Inanobe in Purdue's Small Animal Hospital.

University might collaborate, working on some veterinary research projects together!

### PVM Hosts 2015 Kitasato Delegation

The PVM family welcomed seven Japanese veterinary students from Kitasato University, along with their faculty advisor, Dr. Kenichi Maeda, assistant professor of small animal surgery. The students arrived August 8 for a two-week learning experience that provided first-hand exposure to veterinary clinical education in the U.S. In addition to spending time in the Veterinary Teaching Hospital, the students also enjoyed a variety of fun activities to introduce them to Indiana and local attractions and culture, including trips to the Indiana State Fair, Indianapolis Zoo and a summer picnic at Happy Hollow Park. The students also held a seminar to introduce themselves and share information about their country. Their visit was part of the long-standing sister-university relationship between Purdue and Kitasato University in Towada City, Japan.



Dr. Messick gives a research lecture to the entire veterinary faculty at Kitasato University as well as a hematology lecture and cases to the 1<sup>st</sup> year veterinary students and a clinical chemistry lecture and cases to the 2<sup>nd</sup> year students.



PVM Director of International Programs Will Smith with the Kitasato delegation: (left-right) Hitomi Shimizu, Assistant Professor Kenichi Maeda, Yu Inanobe, Kana Iguchi, Akinori Tauchi, Yasuyo Sumi, Jumpei Kosaka, and Momoko Shirakura.



Senior Kitasato veterinary student Yurika Tachibana (2<sup>nd</sup> from right) with Purdue veterinary students Jessica Slangal and Katelyn Jackson and Small Animal Medicine technicians Katie Beard and Nancy Kehr.

### Kitasato Veterinary Student Returns to PVM for Additional Training

With her mind set on her goal of becoming a small animal internal medicine specialist, Kitasato University veterinary student Yurika Tachibana visited Purdue Veterinary Medicine for three weeks in early September. Yurika initially came to Purdue a year ago, as part of the annual exchange program. Yurika says she wanted to return so she could learn more advanced techniques and improve her English language skills, as well as find out what she can do to increase her chances of being selected for an internship or residency.

Yurika is a senior veterinary student at Kitasato, and will graduate in March. She says her dream is to become board certified as a veterinary internal medicine specialist. Coming back to Purdue by herself gave her increased opportunities to work on her English proficiency and enabled her to follow cases more closely than when she visited last year with the group of Kitasato students. The Purdue sister university relationship with Kitasato dates back to 1995. PVM Anesthesiologist Tomohito Inoue says he has participated in the Kitasato visits to Lynn Hall for 14 years and each year, the visiting students express interest in coming back to West Lafayette, but Yurika was the first one to actually return to Purdue to gain additional learning experiences. Noting that all Kitasato veterinary students must complete a graduate thesis, Dr. Inoue emphasized that Yurika had to complete her thesis early in order to gain approval to come to Purdue during her senior year.

Yurika spent the first two weeks of her visit shadowing students in Small Animal Internal

Medicine, coming in as early as 7:00 a.m., and staying until the students were finished. She also spent time in the Neurology section, and attended the Purdue Veterinary Conference. She says the Purdue students were very kind, and she appreciated the instruction she received when she had questions.

### PVM Welcomes New Director of International Programs

Purdue Veterinary Medicine's new Director of International Programs Will Smith II joined the PVM Office of Engagement April 1, 2015. Will comes to Purdue from the University of Georgia where, for the past three-and-a-half years, he worked in the Office of International Education as the Senior Education Abroad Advisor. Will holds a M.A. in Policy History (International Education and Cultural Exchange Policy) from Bowling Green State University and says international education has been the single driving force behind both his research interests and career decisions. Will says, "The College of Veterinary Medicine Office of International Program strives to globally impact this society in animal health and welfare through engaging in strategic international programming. Our goal is to make the Purdue University College of Veterinary Medicine the premier leader of international engagement within the field of Veterinary Medicine and ensure that all of our students have the opportunity to participate in a meaningful international experience upon graduation, thus fully preparing them to engage globally as they enter into the profession. Your support will enable us to provide quality international opportunities at low costs to our students as well as expand our program offerings." You can make a gift online through the PVM website. Select the category for "Scholarships for Veterinary Students" and on the donation page, write in "International Programs." If you have questions, contact the PVM Advancement Team at 800-830-0104 and they will be happy to assist you.





# DISCOVERY

## PVM BIRD FLU VACCINE RESEARCHER RECEIVES \$1.55 MILLION NIH AWARD

An avian influenza vaccine research team led by Purdue Veterinary Medicine Professor of Comparative Pathobiology Suresh Mittal is receiving \$1.55 million in funding from the National Institutes of Health (NIH). The award will support the continuation of vaccine research that Dr. Mittal has conducted with collaborators at the Centers for Disease Control and Prevention (CDC). Dr. Mittal and CDC researchers Suryaprakash Sambhara and Ian York created a vaccine in 2006 for the H5N1 bird flu virus. The team now is focusing on developing a broad spectrum vaccine capable of covering emerging influenza viruses that have the potential to cause the next influenza pandemic in humans, including H5N1, H7N3, H7N7, H7N9 and H9N2. The new H7N9 influenza virus was found in China in 2013 and was responsible for 229 deaths and 665 cases as of May 2015, according to the World Health Organization.

“These viruses begin in wild birds and as they evolve they expand to poultry and then to humans,” Dr. Mittal said. “There is a very real risk that we will face an avian influenza pandemic at some point in the future and we need to be prepared. One important way to prepare is to develop and stockpile an effective vaccine. We can’t predict what strain of the virus will be involved in a pandemic, so we need a vaccine that can offer protection across all of the strains.”

Dr. Mittal is working to create a vaccine that offers broad protection against multiple strains and mutations of the virus. His method uses a harmless adenovirus as a vector to deliver avian influenza virus genes into the body where they produce influenza proteins that prime the immune system to fight an infection. Dr. Mittal’s avian influenza vaccine work has been described in papers for *The Lancet*, *Journal of Infectious Diseases*, *Clinical Pharmacology and Therapeutics*, *Molecular Therapy*, *PLOS ONE* and *Virus Research*. [Click here to view a complete Purdue news release about the research.](#)





# PVM SCHOLAR LEADS DEVELOPMENT OF REMOTE-CONTROLLED DRUG DELIVERY SYSTEM USING NANOWIRES

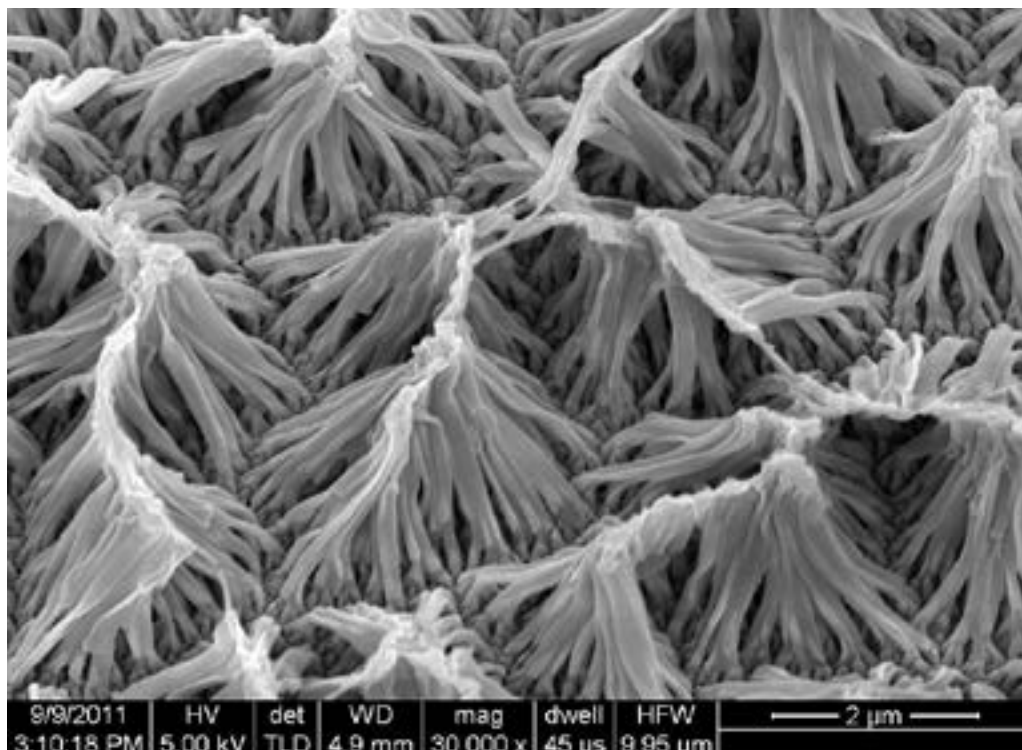
A team of researchers led by Dr. Richard Borgens, Mari Hulman George Professor of Applied Neuroscience in Purdue Veterinary Medicine's Department of Basic Medical Sciences, and director of Purdue's Center for Paralysis Research (CPR), has created a new implantable drug-delivery system using nanowires that can be wirelessly controlled. The nanowires respond to an electromagnetic field generated by a separate device, which can be used to control the release of a preloaded drug.

Dr. Borgens said the system eliminates tubes and wires required by other implantable devices that can lead to infection and other complications. "This tool allows us to apply drugs as needed directly to the site of injury, which could have broad medical applications," Dr. Borgens explained. "The technology is in the early stages of testing, but it is our hope that this could one day be used to deliver drugs directly to spinal cord injuries, ulcerations, deep bone injuries or tumors, and avoid the terrible side effects of systemic treatment with steroids or chemotherapy." A paper detailing the results of laboratory testing is to be published in the *Journal of Controlled Release*.

The nanowires are made of

polypyrrole, a conductive polymer material that responds to electromagnetic fields. Wen Gao, a postdoctoral researcher in the Center for Paralysis Research who worked on the project with Dr. Borgens, grew the nanowires vertically over a thin gold base, like tiny fibers making up a piece of shag carpet hundreds of times smaller than a human cell. The nanowires can be loaded with a drug and, when the correct electromagnetic field is applied, the nanowires release small amounts of the payload. This process can be started and stopped at will, like flipping a switch, by using the corresponding electromagnetic field stimulating device, Dr. Borgens said. "This method allows a very, very small dose of a drug to effectively serve as a big dose right where you need it. By the time the drug diffuses from the site out into the rest of the body it is in amounts that are undetectable in the usual tests to monitor the concentration of drugs in the bloodstream."

Other team members involved in the research include the CPR's John Cirillo, who designed and constructed the electromagnetic field stimulating system; Youngnam Cho, a former CPR faculty member; and Jianming Li, a research assistant professor at the center. [Click here for a complete news release about the research.](#)



This image shows a field of polypyrrole nanowires captured by a scanning electron microscope. The nanowires are being used by a PVM-led research team that is developing a new wirelessly-controlled implantable drug-delivery system. (Purdue University image / courtesy of Richard Borgens)

# PURDUE RESEARCHERS REPORT **SWEET CORN** COULD MAKE ANIMAL VACCINES SAFER

Animal vaccine manufacturers could benefit from the work of two Purdue University researchers who are testing biomaterial made from sweet corn to make vaccines safer.

Dr. Harm HogenEsch, Purdue Veterinary Medicine associate dean for research and professor of immunopathology, and Dr. Yuan Yao, an associate professor in the College of Agriculture, are developing biomaterial from a non-genetically modified variety of sweet corn to use as an adjuvant in animal vaccines. Adjuvants are substances that are added to vaccines to stimulate an immune response and to improve the performance of the vaccines.

Dr. HogenEsch said commonly used adjuvants like oil emulsions and aluminum have a number of drawbacks. "The conventionally used oil emulsions and aluminum are poorly biodegradable and can induce a long-lasting inflammatory response at the injection site. Especially for food animals, that's an issue," he said. "The corn-derived biomaterial being developed and tested at Purdue may address these issues in a sustainable way."

Dr. Yao said the adjuvant biomaterial research is being conducted on a naturally occurring variety of corn.

"The corn that we are using to generate the biomaterial has been planted for decades without being genetically modified," he said. "The base material from which the biomaterial is made is nano-size and quickly digestible like a starch. Our research with small animals shows that these specifically designed biomaterial particulates act as an adjuvant by stimulating the interactions with immune cells."

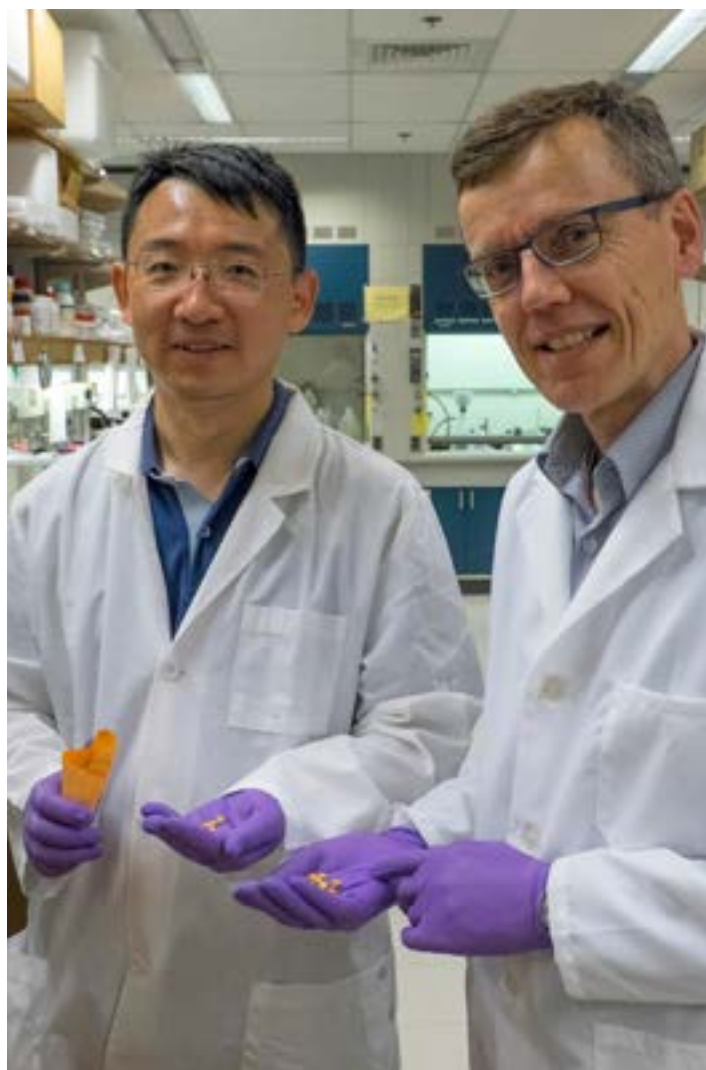
Dr. HogenEsch and Dr. Yao are looking to develop the corn-based adjuvant with industry partners.

"When we have talked with companies, the question comes up how it will work in large animals such as pigs, dogs or poultry," Dr. HogenEsch said. "We are



looking to work with industry partners to do more extensive and expensive research to include more animals and further develop the technology."

The Purdue Research Foundation Office of Technology Commercialization has applied for a provisional patent on Dr. HogenEsch's and Dr. Yao's work. The research has been supported by the U.S. Department of Agriculture, the National Science Foundation and the Purdue University College of Agriculture's AgSEED funding.



PVM Professor of Immunopathology Harm HogenEsch and Associate Professor Yuan Yao in Purdue's College of Agriculture, show samples of non-genetically modified corn that might be used in animal vaccines. Their work could improve the performance of animal vaccines through a sustainable resource. (Photo courtesy of the Purdue Research Foundation)



# PURDUE UNIVERSITY CENTER FOR ANIMAL WELFARE SCIENCE MAKING HEADLINES

## Science-based Standards Drafted for Care and Welfare of Breeding Dogs 🐾

Science-based standards developed for the care and well-being of dogs bred commercially will soon go through pilot testing among breeders as part of a two-year Purdue University research project. Participating breeders are expected to begin testing the recently completed draft standards before the end of this year, according to Dr. Candace Croney, head of Purdue's Center for Animal Welfare Science (CAWS) and Purdue Veterinary Medicine associate professor of animal behavior and well-being in the Department of Comparative Pathobiology. The well-being of the dogs will be evaluated before and after the breeders implement the standards. "Breeders have been eagerly awaiting the opportunity to participate," Dr. Croney said.

The goal of the research is to provide breeders with uniform standards for care and well-being in all states to ensure the quality of life that dogs deserve, explained Dr. Croney, who is leading the study. The draft standards take in all areas of health and well-being and address the needs of adult dogs, juvenile dogs and puppies, including dogs' access to food, water and shelter; availability of veterinary and preventative health care; behavioral wellness; and genetic selection. The research also is addressing ethical issues such as the end of breeding careers and rehoming of animals. "All animal care policies must be grounded in science as well as ethics and social responsibility," Dr. Croney said.

Input from breeders, veterinary practitioners and other experts on canine care, reproductive management and welfare was incorporated into the standards, which have been reviewed by animal welfare experts including Dr. Temple Grandin and Dr. Bernie Rollin of Colorado State University and Dr. James Serpell of the University of Pennsylvania. Dr. Croney said researching the scientific basis for the standards revealed major gaps in the existing scientific literature pertaining to housing and management that affect the welfare of kennelled and breeding dogs. The research team therefore prioritized several new areas of study and have begun collecting data with the support of dog breeders who volunteered their facilities for study. That data as well as the final

standards are to be released next year. For more information, [click here](#) to view a complete news release about the study.

## Animal Welfare Highlighted at the 2015 Purdue Veterinary Conference

The annual Dr. Jack and Naomi Stockton / Class of 1971 Lecture featured a presentation by Purdue University Center for Animal Welfare Science Director Candace Croney, who spoke on the topic, “Food Fight! Factors Shaping Public Debates and Policy on Farm Animal Welfare,” on September 10, at the 2015 Purdue Veterinary Conference. Dr. Croney reviewed the roles of science, ethics, politics, and public perceptions in current discussions of farm animal welfare policy.

The Jack and Naomi Stockton / Class of 1971 Veterinary Lectureship endowment was established in October 2001 by members of the Purdue Veterinary Medicine Class of 1971 in honor of former Dean Jack Stockton and his wife, Naomi. Dean Emeritus Jack Stockton served as dean of Purdue University College of Veterinary Medicine from 1971 – 1985. Income from the endowment is used to support a lectureship to bring outstanding speakers to Purdue University to address students, faculty and alumni of the College of Veterinary Medicine. This lecture is one of the keynote sessions during the annual Purdue Veterinary Conference and features outstanding speakers in the veterinary field.



Dr. Candace Croney delivers the 2015 Jack and Naomi Stockton / Class of 1971 Lecture at the Purdue Veterinary Conference.

## Inaugural CAWS Symposium Draws 130 Participants

The first Spring Symposium hosted by the Purdue University Center for Animal Welfare Science May 21 proved to be a big success, drawing more than 130 attendees from across the country for a day of sessions addressing current animal welfare issues. Among the attendees were students, faculty and staff from at least eight different universities, including Michigan State University, Notre Dame, the University of Illinois, and Ohio State University, as well as industry personnel affiliated with the companion, laboratory and food animal industries, and private practice veterinarians, legislative aides, and media representatives.

Session topics during the sessions included agricultural, companion and laboratory animal welfare challenges and opportunities, as well as ethical issues relative to animal welfare. The overlap between animal welfare science and the human-animal bond also was explored. Speakers included Director of the Purdue University Center for Animal Welfare Science Candace Croney, Director of the Purdue University Center for the Human-Animal Bond Alan Beck, Stanford University Associate Professor of Comparative Medicine Joseph Garner and Colorado State University Distinguished Professor Bernie Rollin. An especially popular session was a panel discussion on “Corporate Considerations in Animal Care and Welfare Policies” featuring Bruce Feinberg, Global Animal Health and Welfare Officer, McDonald’s Corp.; Jennie Hodgen, PhD, Merck Animal Health; and Mike Siemens, PhD, Leader of Animal Welfare and Husbandry, Cargill Meat Solutions Corp.

Designed to celebrate the establishment of the Center for Animal Welfare Science, which is jointly funded by the Purdue Colleges of Veterinary Medicine and Agriculture as well as the Purdue University Provost’s office, the one-day symposium will now serve as an annual event providing an important opportunity for the exchange of ideas, development of multi-disciplinary collaborations, and engagement of scholars, stakeholders and members of the public interested in animal welfare. Mark your calendars for the 2<sup>nd</sup> Annual CAWS Spring Symposium to be held Wednesday, May 18, 2016.



# FACULTY /STAFF

## PVM HONORS RETIRING FACULTY

### Rebars Receive PVM Send-off at Retirement Reception

The end of August marked the beginning of a new chapter in the lives of Purdue Veterinary Medicine Professor of Veterinary Clinical Pathology and former Dean Al Rebar (PU DVM '73), and his wife, Dr. Sue McLaughlin (PU DVM '77), who both officially retired from Purdue. PVM faculty and staff gathered Friday, August 14, to honor Drs. Rebar and McLaughlin at a reception in the Dauch Alumni Center before their move to North Carolina, where Dr. Rebar now serves as vice chancellor for research, innovation and economic development at North Carolina State University. Earlier this summer, Dr. Rebar stepped down as Purdue's senior associate vice president for research and executive director of Discovery Park, a position he had held since leaving the College of Veterinary Medicine deanship in 2005.



Drs. Al Rebar and Sue McLaughlin are joined by Dr. Rebar's classmate, Dr. Ray Houin (left) and his wife, Eileen, and Dr. Judy Jordan and her husband, Dr. Bill Jordan, who is another of Dr. Rebar's classmates, and Dr. Leon Thacker and Dean Willie Reed at the retirement reception in the Dauch Alumni Center.

Dr. Rebar earned both his DVM and PhD degrees at Purdue in 1973 and 1975 respectively, and joined the PVM faculty in 1976 as assistant professor of clinical pathology. He went on to assume several administrative posts in the College, including associate dean for research and head of the Department of Comparative Pathobiology before becoming dean in 1996. A Diplomate of the American College of Veterinary Pathologists, Dr. Rebar is internationally recognized for his work in clinical laboratory medicine, with expertise in comparative hematology, diagnostic cytology and toxicologic pathology. Dean Willie Reed praised Dr. Rebar for his many accomplishments as an alumnus, faculty member and dean. "You have built an impeccable reputation as an outstanding clinical pathology educator and administrator," Dean Reed said. He added, when then President Martin Jischke recognized Dr. Rebar's talent and tapped him to be the head of Discovery Park and senior associate vice president for research, it was a significant appointment for a veterinary college dean, and elevated the stature of the College and the veterinary medical profession on campus.

Associate Dean for Academic Affairs Kathy Salisbury then introduced Dr. McLaughlin, who earned her Purdue DVM degree in 1977, and went on to complete an ophthalmology residency at the University of Illinois, where she earned her master's degree and became a Diplomate of the American College of Veterinary Ophthalmology. After accepting a faculty appointment as an assistant professor, she remained at the University of Illinois until 1989, when she left to become associate professor of ophthalmology at Auburn. She returned to Purdue in 1998 to temporarily help the College with the new Applications and Integrations (A&I) courses that were created to incorporate problem-based learning into the DVM curriculum. In 2000,



Dean Willie Reed with former Dean Al Rebar, holding the glass etching of the Continuum, at the retirement reception for Dr. Rebar and Dr. Sue McLaughlin.

she accepted a PVM faculty appointment and joined the A&I team. Dr. Salisbury said, “She helped to write lots of cases, tutored many students – probably hundreds over that time period – helped to give and prepare oral exams, write tests... And, throughout it all she was always attentive to detail, and really thorough.” Dr. Salisbury also commended Dr. McLaughlin for her work with the pre-veterinary careers course for Purdue pre-vet students, as well as the clinical application courses for third year veterinary students, which involved reading hundreds of student narratives about their experiences in the clinics. “So we appreciate her dedication to really getting the job done and helping our students to have the best learning environment that they can have,” Dr. Salisbury said.

Dean Reed presented Drs. Rebar and McLaughlin with a glass etching of the Continuum sculpture in honor of their retirement. He also read a letter from the Purdue Provost conferring on Dr. Rebar the title of Professor Emeritus.

Dr. Rebar said Purdue has been a great place for him, and it’s a great place because of great people. He said they are looking forward to a new adventure, and he is really excited about the opportunity. But, he added, “It’s certainly not easy to leave all of you...you all will always have a very close place in my heart.”

## BMS Department Honors Retiring Nanomedicine Scientist

Purdue Veterinary Medicine faculty, staff and students, along with guests from Discovery Park, gathered August 26 in the Continuum Café in Lynn Hall to honor Dr. Jim Leary, professor of nanomedicine, on the occasion of his retirement. Dr. Leary joined the faculty in 2005 as a tenured full professor in the Department of Basic Medical Sciences, with a joint appointment in the Weldon School of Biomedical Engineering. In addition, he has been a member of the Bindley Bioscience Center, Birck Nanotechnology Center and Oncological Sciences Center at Discovery Park, as well as the Purdue Cancer Center. Before coming to Purdue, Dr. Leary served on the faculty of the University of Rochester Medical School and then the University of Texas Medical Branch at Galveston (UTMB).

BMS Department Head Laurie Jaeger commended Dr. Leary on his accomplishments, noting that during his career of more than 37 years, his research has been funded by the National Institutes of Health, National Science Foundation, Department of Defense, the USDA, and a number of private foundations and companies. She also said his original inventions in high-speed flow cytometry and cell sorting resulted in five issued U.S. patents, and he holds numerous other patents, with some still pending even upon his retirement. Dr. Leary also is author or co-author of more than 160 papers and book chapters, many involving his trainees – post docs, graduate students, and undergraduate students at Purdue and other institutions.



Dr. Jim Leary received a framed print of the Continuum sculpture from Basic Medical Sciences Department Head Laurie Jaeger as a retirement keepsake.

As part of the ceremony, Dr. Jaeger read a letter from the Purdue Provost granting Dr. Leary the title of “Professor Emeritus.” She also presented Dr. Leary with a framed picture of the Continuum sculpture, in



recognition of his retirement. “Congratulations on all your career achievements and upon your retirement, thank you for all you have done for Purdue,” Dr. Jaeger said. Dr. Leary said he plans to continue his career in a variety of ways, but it is time to shift gears, and return to Santa Fe, N.M., where he had been a Postdoctoral Fellow at Los Alamos National Laboratory in 1977-1978. He said he promised his wife, who also was at Los Alamos at the time, that they would return some day and now it’s time to fulfill that promise, which also will enable him to better pursue his love of downhill skiing.

## PVM WELCOMES NEW FACULTY

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



**Dr. Audrey Ruple-Czerniak** joined the Department of Comparative Pathobiology as assistant professor of public health epidemiology January 5. Dr. Ruple-Czerniak earned her PhD at Colorado State University in 2014 with a focus on cell and molecular

biology and a specialization in cancer biology. Her primary areas of interest include epidemiology, cell biology, study design, biostatistics, cancer prevention and translational medicine. Dr. Ruple-Czerniak is board certified by the American College of Veterinary Preventive Medicine.



**Dr. Teresa Buchheit** (PU DVM 2005) joined the Department of Veterinary Clinical Sciences as clinical assistant professor in the equine ambulatory practice on February 2. Dr. Buchheit earned her DVM degree from Purdue University in 2005. She then

completed a one year internship in equine medicine and surgery at Mississippi State University followed by a residency in large animal internal medicine at the University of Tennessee. Dr. Buchheit worked in private practice as a large animal veterinarian in Louisville, Tenn. before earning a master’s degree from North Carolina State University in 2014. Dr. Buchheit is board certified by the American College of Veterinary Internal Medicine.



**Dr. Abigail Cox Durkes** (PU DVM 2008) joined the Department of Comparative Pathobiology as assistant professor of veterinary anatomic pathology on August 1. Dr. Durkes earned a master’s degree from the Purdue University College of

Agriculture before earning her DVM from Purdue University in 2008. She completed a residency and master’s degree in anatomic pathology in the CPB department in 2011, and is currently in the process of completing her PhD. Dr. Durkes is board certified by the American College of Veterinary Pathologists. Her research interests include translational in vivo laryngeal pathology models as well as research collaborations with scientists across campus and beyond. Dr. Durkes is teaching general pathology to veterinary students and training residents through her service as a diagnostician in the Animal Disease Diagnostic Laboratory.



**Dr. Sarah Malek** became a member of the Department of Veterinary Clinical Sciences faculty when she was appointed assistant professor of small animal orthopedic surgery effective August 1. Dr. Malek earned her DVM degree in 2005 from the University of Tehran in Iran. She went on to complete a residency in small animal surgery at the University of Prince Edward Island Atlantic Veterinary College in 2014. Dr. Malek’s key area of interest is osteoarthritis.



**Dr. Marxa Figueiredo** joined the Department of Basic Medical Sciences (BMS) as an assistant professor August 17. Dr. Figueiredo earned her PhD in cellular and molecular biology with a minor in oncology from the University of Wisconsin-Madison. She comes to Purdue from the faculty of the University of Texas Medical Branch in El Paso. BMS also gained Dr. Figueiredo’s laboratory, which focuses on understanding the interactions between the musculoskeletal and immune systems for translational applications. She also brought four laboratory members, including PhD students Angelia Szwed, Sam

Umbaugh, and Joe Shearer and lab manager Manoel Neto to the department. Dr. Figueiredo and her team are enthusiastic about contributing to PVM research and teaching and participating in campus wide initiatives in drug discovery and immunology.



**Dr. Mark Rochat** joined the Department of Veterinary Clinical Sciences August 17 as clinical professor of small animal orthopedic surgery. Dr. Rochat most recently served as professor and small animal surgery section chief at Oklahoma State

University's Veterinary Medical Hospital. He earned his DVM degree from Mississippi State University followed by a master's degree and residency program in small animal surgery at the University of Missouri-Columbia. Dr. Rochat is a diplomate of the American College of Veterinary Surgeons. His research focuses on orthopedic trauma, total joint replacement, orthopedic infection, wound management and biomechanics.



**Dr. Andrew Woolcock** joined the Department of Veterinary Clinical Sciences as assistant professor of small animal internal medicine on August 17. Dr. Woolcock earned his DVM degree in 2011 from Michigan State University followed by a residency in small animal

internal medicine at the University of Georgia. He is board certified by the American College of Veterinary Internal Medicine. Dr. Woolcock's research interests include: immune-mediated diseases and novel immuno-therapies, minimally invasive procedures and interventional medicine, and canine obesity.



**Dr. Micha Simons** was appointed as clinical assistant professor of small animal surgery in the Department of Veterinary Clinical Sciences effective August 18. Dr. Simons served as a visiting clinical assistant professor with the department for the previous

year. She earned her VMD as well as certification in the VBMA business management program at the University of Pennsylvania in 2008. She then completed a small animal rotating internship followed by a surgical internship at Long Island Veterinary Specialists, before completing a small animal surgery with emergency and critical care specialty internship

at the University of Missouri. Dr. Simons went on to complete a residency program in small animal surgery at the Veterinary Specialty and Emergency Center in Pennsylvania in 2014 before coming to Purdue. Dr. Simons' specialty interests include wound management, surgical oncology and reconstruction.



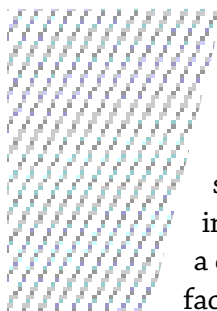
**Dr. Sarah Steinbach** became a member of the Department of Veterinary Clinical Sciences upon her appointment as assistant professor of small animal internal medicine on September 1. She earned her med. vet and Dr. med. vet degrees from Vetsuisse Faculty

University of Bern in Switzerland before completing a residency program at the Justus-Liebig University in Giessen, Germany and the Royal Veterinary College in London. Dr. Steinbach is a diplomate of both the European College of Veterinary Internal Medicine and the American College of Veterinary Internal Medicine. Her research interests include nephrology and urology.



**Dr. Tokiko Kushiro-Banker** joined the Department of Veterinary Clinical Sciences on September 14 as clinical assistant professor of anesthesiology. Dr. Kushiro-Banker earned her BVM and PhD degrees from Rakuno Gakuen University in Ebetsu, Hokkaido, Japan.

She then went on to complete a master's degree and residency program in veterinary anesthesiology at Washington State University. Dr. Kushiro-Banker is board certified with the American College of Veterinary Anesthesia and Analgesia. Her research interests include: pain management, cardiovascular and pulmonary physiology and pharmacokinetic/pharmacodynamic studies.



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Purdue Veterinary Medicine is seeking talented faculty looking for incredible opportunities. Click here for a complete listing of current available faculty positions.



# PVM INSTRUCTIONAL TECHNOLOGIST AIDS PURDUE STEM EDUCATION PROJECT

A Purdue STEM education program that seeks to improve students' learning of science through engineering design has a new way to connect with students in schools in Indiana, thanks to the help of Purdue Veterinary Medicine Instructional Technologist Maggie Lump. The program, called "SLED", for Science Learning through Engineering Design, involves a partnership with teachers of grades 3-6 in Indiana schools. SLED co-director Brenda Capobianco was quoted in the Purdue periodical Purdue Today as saying that her favorite SLED project is one created with the help of "...a colleague in Purdue's College of Veterinary Medicine," who is none other than Maggie!

The project Brenda referred to debuted at this year's SLED Summer Institute for elementary school teachers, and featured a design task that involved developing a compound machine to assist an injured large-breed dog into and out of a vehicle without further injury or stress. Because of Maggie's background in animal rehabilitation and physical therapy, she served as an expert, explaining how such a dog would be transported safely and efficiently in the veterinary hospital setting. "I outlined safety aspects for restrainer and animal, current tools and techniques in veterinary medicine, and other key points that the students should take note of when working through the problem. I also brought along my dog, Walter, in order to have a life-size, real-world reference," Maggie said.

Maggie further explained that the SLED program puts together the lesson plans, and through the Summer Institute, provides "train-the-trainer" sessions to instruct the teachers how to implement the projects in their own classrooms. "The teachers actually work through the problem and design a solution using the same instructions and materials that would be given to their students," Maggie said. She added that at the end of their session, they Skyped with a classroom in Massachusetts, and the teachers presented their designs to the students who graded their efforts.

Both Maggie and her dog Walter won praise from the

A photograph of Maggie Lump, a woman with short brown hair, wearing a black polo shirt with a Purdue Veterinary Medicine logo and light-colored pants. She is kneeling on a paved surface next to a brick wall, with her hand resting on the back of a black dog named Walter. Walter is sitting and looking towards the camera.

Maggie Lump, RVT with her dog, Walter.

educators who participated. One of the participants commented afterward, "My favorite lesson this week was 'Dog Gone It!', with Brenda, Maggie and Walter. What a great way to connect students with engineering...who knew that you could combine simple machines to something they could identify with at home...their own pets!" Another wrote, "I especially liked the real world application of combining engineering and science together with vet medicine."

Brenda Capobianco also expressed appreciation for Maggie's involvement. She commented, "The over 35 SLED elementary school teachers who attended our session enjoyed the valuable information you shared about current tools and technologies used for assisting dogs...As we observed in our session, the teachers created prototypes that clearly incorporated the knowledge, insight and expertise you shared with them."

# LEARNING

## STUDENTS AND FACULTY HONORED AT

## WHITE COAT AND AWARDS CEREMONY



Dr. James Stepusin, president-elect of the Indiana Veterinary Medical Association, with fourth-year veterinary students Melissa Gambill (left), recipient of the IVMA award for superior proficiency in large animal medicine and surgery, and Ava Nowak (right), recipient of the IVMA award for superior overall proficiency in all species medicine and surgery.

Purdue Veterinary Medicine students and their families joined PVM faculty and staff at the Purdue Memorial Union ballrooms April 21 for the annual PVM Honors and Awards Banquet and White Coat Ceremony. Dean Willie Reed began the White Coat Ceremony by explaining that it marks the passage of third-year veterinary students from the classroom to the clinics. "Class of 2016, the donning of the white coat symbolizes your new role as junior veterinarians," Dean Reed said. "The white coat indicates your acceptance of the great responsibility toward your patients and clients, your commitment to show compassion and empathy, and to make a positive difference in the life of every animal and person with whom you come into contact." During the ceremony, each student stepped onto the stage to receive their white coat as their name was called. The students also received a name badge from the Indiana Veterinary Medical Association (IVMA).

The program then continued with the presentation of 45 student awards. Associate Dean for Academic Affairs Kathy Salisbury acknowledged each award sponsor and shared background about each of the student recipients as the award winners came up to the stage. Awards for veterinary students recognized their achievements in several categories, including Excellence in Clinical Performance, Excellence in Patient Care and Client Communication, and Excellence in Academic Performance. Recognition of veterinary technology students included awards for leadership, academic achievement and technical proficiency.



2015 graduates of the DVM DiversiKey Certificate Program: (left-right) Chelsea Scheidler, Stara Robertson, Corina Collins, Tramaine Creighton, Jessica Goodman and Elaine McCarthy.



The banquet included recognition of six veterinary students who completed the DVM DiversiKey Certificate Program. The Purdue DiversiKey Certificate Program originally was designed for undergraduate students who wanted to increase their knowledge of diversity-related issues, and gain the necessary skills to work with individuals from all types of backgrounds. The program was modified by PVM Director of Diversity Initiatives Kauline Cipriani to work well with the demands of the DVM curriculum. Participating students attend three mandatory interactive training sessions and then attend a series of select events and activities over the following three years. For each event, a reflection form is submitted with the student's description of how that event impacted his or her view of diversity and inclusion. The program concludes with capstone presentations in which the students reflect on their overall participation in the program and how they will use what was learned in the workplace and throughout their involvement in the veterinary medical profession.

After the student awards were presented, Dean Reed announced nine awards for teaching, research and engagement. Congratulations to the following award recipients:

**Alumni Outstanding Teacher Award** (faculty recognition by professional students) Dr. John Christian, associate professor of veterinary clinical pathology and director of the Clinical Pathology Laboratory

**Zoetis Distinguished Teacher Award** (outstanding teacher recognized by professional students) Dr. Pete Bill, assistant dean for academic affairs, teaching and learning and professor of veterinary pharmacology

**Weedon Faculty Recognition Award** (faculty recognition by fourth year students) Dr. Jim Weisman, clinical assistant professor and director of Student Services

**Zoetis Animal Health Award for Veterinary Research Excellence** Dr. Mohamed Seleem, assistant professor of veterinary microbiology

**PVM Excellence in Teaching Award** Dr. Nolie Parnell, clinical associate professor of small animal internal medicine

**PVM Excellence in Research Award** Dr. Laurent Couëtill, professor of large animal internal medicine; section head, Large Animal Internal Medicine; director, Equine Research Programs; and director of the Equine Sports Medicine Center

**PVM Excellence in Scholarship of Engagement Award** Dr. Candace Croney, associate professor of animal behavior and well-being; and director of the Purdue Center for Animal Welfare Science

**PVM Award of Excellence in Service** (faculty and staff veterinarians who excel in service) Dr. Ann Weil, clinical professor of anesthesiology; chief of staff, Small Animal Hospital; and anesthesiology section head

**Elanco Veterinary Technology Outstanding Teaching Award** Maggie Lump, RVT, instructional technologist

*The annual Honors and Awards Banquet is sponsored by Elanco Animal Health and Hill's Pet Nutrition.*



Dr. Ann Weil (right) with Dean Willie Reed received the 2015 PVM Award of Excellence in Service.



Dean Willie Reed presents Dr. Mohamed Seleem (right) with the 2015 Zoetis Animal Health Award for Veterinary Research Excellence.

# PURDUE VETERINARY STUDENTS HOST HIGHLY SUCCESSFUL BUSINESS MANAGEMENT SUMMIT

*Editor's note: Inspired by their time at the most recent national meeting of the Veterinary Business Management Association (VBMA), the officers of the Purdue chapter set out to take the successful blue print of the national meeting and develop it on a regional level. "In the Midwest, we are very fortunate to have so many veterinary colleges nearby," said VBMA Treasurer Shea Rolf. What follows are excerpts from Shea's narrative of the Purdue VBMA Fall Summit Workshop, which was held at Lynn Hall October 24-25 and attracted 140 attendees!*

Our focus initially was at the student level, but when we really began discussing the "veterinary community" that we were trying to cultivate and connect with, we expanded our focus to include veterinary professionals of all levels. The VBMA Fall Summit became a place for the continuum of the profession to come together and discuss common topics while sharing different perspectives - from students to the experienced veterinarian.

As the Friday before the Fall Summit commenced, we all awoke excited and ready to get through the day of classes. In the evening the executive board had the pleasure of gathering with our speakers for a relaxing dinner filled with great conversation. Saturday was comprised of presentations focusing on a "healthy practice." Mr. David McCormick of Simmons Inc. enthusiastically began the summit with a presentation on practice financial health for the owner and new associate. He gave the audience an understanding and appreciation of financial health and the impact hiring, firing, and employee retention can have individually and collectively to improve or diminish the practice value. Next up, Dr. Lance Roasa, both a veterinarian and current law student, explained the importance of understanding income taxes and its substantial role in the income of any business. The final speaker for the first day, Dr. Dani McVety, co-founder of Lap of Love Veterinary Hospice, spoke about the relational side of veterinary medicine, sharing lessons on how to motivate your employees and colleagues and how, ultimately, a



healthy practice is made up of a team with healthy relationships. Following the presentations, we welcomed our attendees to dinner in downtown Lafayette where there was great interaction amongst students from different schools, professionals, and our speakers too!

Sunday morning, Dr. Mary Beth Leininger (PU DVM '67) began with an inspirational tale of her many successes and lessons learned during her journey from veterinary school to her current role as Vice President of the Hartville Group. Dr. Paul Pion, CEO of Veterinary Information Network, Inc., followed with an introduction to student loan repayment and insight into the future of veterinary medicine due to the debt incurred by young professionals and the salary needed to support them through life. Tony Bartels, DVM, MBA, then shared his vast knowledge of the student loan repayment plans.

And then, as if it were a dream, the Fall Summit officially ended. In total, 115 students and 25 veterinary professionals attended. The students represented seven VBMA chapters: Ohio State, Michigan State, Purdue, Illinois, Iowa State, Missouri, and Nebraska! Professionals traveled from Indiana, Illinois, and Michigan to join us. We could not have asked for a better turnout, a more enthusiastic crowd, or more passionate professionals. One of the biggest compliments is that everyone who turned in the survey said they would attend next year! We have some excellent ideas on how we can improve everyone's experience. The future of the VBMA Fall Summit is bright and we hope you'll be a part of it next year!





## UNIFIED OATH CEREMONY HONO

Purdue Veterinary Medicine DVM and veterinary technology graduates walked together in a unified processional as part of the College of Veterinary Medicine's first combined Oath Ceremony Sunday, May 17, in the Purdue Memorial Union ballrooms. Previously, the veterinary technology graduates participated in a separate oath ceremony, necessitated because of differences in the curriculum for the undergraduate veterinary technology program and professional Doctor of Veterinary Medicine program. As a result of revisions to the veterinary technology curriculum, the College was able to unify the oath ceremonies for the DVM and veterinary technology May and August graduates this year. So, for the first time in its history, the College conducted a joint ceremony, recognizing the DVM and veterinary technology graduates, and administering their respective oaths.

Dean Willie Reed introduced the ceremony, explaining that "...we are uniquely able to exemplify

for all who celebrate with us, the concept of the veterinary team. Of the 30 veterinary schools and colleges in the country, only four have both DVM and veterinary technology programs, so participating in this combined Oath Ceremony is a rare privilege."

Hundreds of family and friends gathered to watch the proceedings, which included congratulatory remarks by the president of the Purdue Veterinary Alumni Association (PVAA), Dr. Glenn Pullen (PU DVM '86) and the treasurer of the Indiana Veterinary Medical Association (IVMA), Dr. Aaron Smiley. Then, Class Responder Hannah Byers, RVT, spoke on behalf of the veterinary technology graduates, before the Associate degree and Baccalaureate degree graduates ascended the stage while their names were announced by Dr. Kathy Salisbury, associate dean for academic affairs. Veterinary Technology Program instructor Amalia de Gortari, who is a member of the Oncology Service in the Veterinary Teaching Hospital, presented the graduates with their





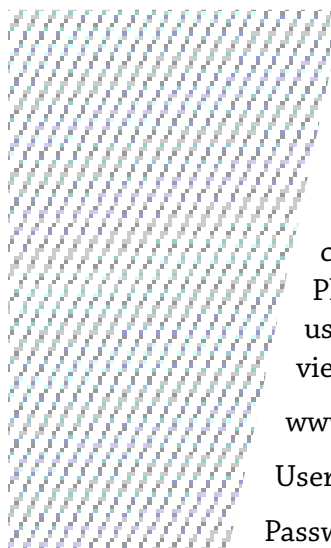
## RS ENTIRE PVM CLASS OF 2015

respective Associate degree or veterinary technologist pin as they came on stage, after which Veterinary Technology Program instructors Maggie Lump and Pam Phegley led them in reciting the Indiana Veterinary Technician Oath of Ethical Conduct.

After a group photo, the veterinary technology graduates stepped down from the stage and Dean Willie Reed addressed the DVM graduates before turning the microphone over to Dr. Daniel Thomasey, who gave the formal DVM Class of 2015 response. Dr. Salisbury then announced the names of the DVM graduates as they ascended the stage before Dean Reed administered the Veterinarian's Oath. After a group photo of the DVM graduates, the veterinary technology graduates returned to the stage for a first-of-its-kind photo-op of the entire Purdue Veterinary Medicine Class of 2015.

A collection of candid photos taken by Kevin Doerr at commencement are posted on the Purdue Veterinary

Medicine Facebook page.



Professional photographs taken by Ed Lausch at the Oath Ceremony events can be viewed and purchased online. Click on the link in the upper right hand corner for "Purchase Event Photos" and use the following username and password to view the images:

[www.lauschphotography.com](http://www.lauschphotography.com)

Username: 2015graduation

Password: 17may2015



# LIFELONG LEARNING

## 2015 Purdue Veterinary Conference Sets Attendance Record

Featuring popular tracks for such areas as bovine, equine, small animal, shelter medicine, professional development and veterinary technology, the 2015 Purdue Veterinary Conference attracted a record number of attendees. The total attendance figure of 1,200 included 335 veterinarians, 215 veterinary technicians, 400 PVM faculty, staff and students, and 140 guests and other professionals. Additionally, the popular Exhibit Hall (photographed below) in the Purdue Memorial Union South Ballroom was staffed by 110 exhibitor representatives.

The conference literally provided something for everyone, with 65 different speakers, including 38 from Purdue, conducting 95 different Continuing Education (CE) sessions. Seven special labs and workshops contributed an additional 21 CE units. New sessions included the Milking System Evaluation workshop; a General Wellness session with Dr. Michelle Gaspar, feline internal medicine consultant for the Veterinary Information Network; and a

Veterinary Practice Management Program Open House. The annual Dr. Jack and Naomi Stockton / Class of 1971 Lecture featured a presentation by Dr. Candace Croney, director of the Purdue University Center for Animal Welfare Science. The general public also had an opportunity to take part in learning about “The Science Behind the Human-Animal Bond” as presented by PVM Assistant Professor of Human-Animal Interaction Maggie O’Haire who gave the Elanco Human-Animal Bond Lecture, which kicked-off the conference Tuesday evening, September 8.

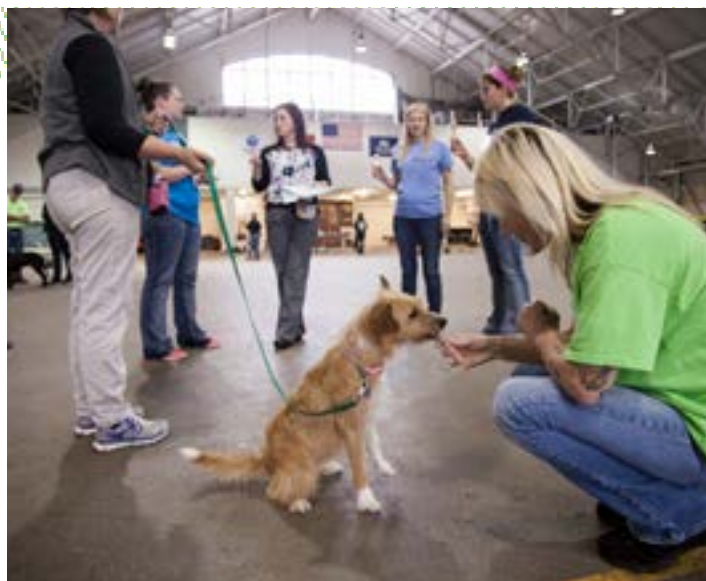
A variety of special events also were held as part of the conference week, which doubles as the College of Veterinary Medicine’s homecoming. Those events included the Indiana Animal Health Foundation golf outing; the Awards Celebration; the Dean’s Club luncheon, which featured a presentation by a member of the 25<sup>th</sup> reunion class, Dr. Charles Vite (PU DVM ’90), associate professor of veterinary neurology at the University of Pennsylvania; the “Meet Me @ the Mixer” reception, where reunion classes are recognized; and the PVM Tailgate before the Purdue vs. Indiana State football game.







Dr. Nolie Parnell, clinical associate professor of small animal internal medicine, conducted a continuing education session on "Patient Care for the Dog with Pancreatitis."



The Shelter Medicine Track included a Hands-on Behavior Lab in the Purdue Armory.

## Veterinary Practice Management Program Aligns Course Schedule with Purdue Veterinary Conference

The Veterinary Practice Management Program (VPMP), which has become the nation's premier management education program for the veterinary medical profession, this year aligned its four-module schedule to begin with the Purdue Veterinary Conference in September. An Open House and introductory Human Resource Management session

gave conference attendees a chance to find out about the program first-hand, before the first round of classes for new enrollees was held on the Purdue Veterinary Conference weekend.

The VPMP was developed by Purdue's Krannert School of Management and College of Veterinary Medicine to prepare veterinary professionals, from veterinary technicians and practice managers to veterinary practice owners, for success in an increasingly competitive business environment. Now in its 26<sup>th</sup> year, the program is attracting veterinary students as well as seasoned

professionals. Participants attend four weekend sessions over two years, covering Human Resources Management, Accounting and Financial Management, Marketing Management, and Strategic Thinking. All VPMP courses are applicable toward the continuing education requirement for the Certified Veterinary Practice Manager (CVPM) program offered by the Veterinary Hospital Managers Association.

Registration is now open for the next Program Series starting September 29, 2016, during the 2016 Purdue Veterinary Conference. More information is available at the VPMP website, or call 765-494-1554.



PVM students gather with Krannert Professor and VPMP instructor David Schoorman (right) at the start of the VPMP's Human Resources Management module: (left-right) Clayton Carr (PU DVM 2017), Elise Mauer and Sarah Dengler (both PU DVM 2018), Kristen Puls (PU DVM 2017), and Amber Fowler and Acacia Herr (both PU DVM 2018). Several students have enrolled in VPMP over the past two years with the help of a limited number of scholarships.



## Awards Celebration Recognizes Distinguished Alumni and Exceptional Faculty



Dean Willie Reed with (left-right) Drs. Pete Bill and John Schnarr, recipients of the Distinguished Alumnus Award; Dr. Sandy San Miguel, recipient of the Raymond E. Plue Outstanding Teaching Award; and Dr. John Christian, recipient of the Alumni Faculty Award for Excellence.

Purdue Veterinary Medicine awards for distinguished alumni and outstanding teachers were presented to four recipients at the annual Awards Celebration that was held during the Purdue Veterinary Conference Wednesday evening, September 9, in the Purdue Memorial Union North Ballroom. Dr. Pete Bill (PU DVM '80, MS '85, PhD '90), PVM assistant dean for academic affairs, teaching and learning, and professor of veterinary pharmacology, and Dr. John Schnarr (PU DVM '70), owner of the Irvington Pet Clinic in Indianapolis, received the 2015 Purdue Veterinary Medicine Distinguished Alumnus Awards. The recognition of the honorees included the presentation of videos about each recipient. [Click here to view the video about Dr. Bill](#); [click here to view the video of Dr. Schnarr](#).

Also honored at the event were Dr. Sandy San Miguel (PU DVM '93, MS '94, PhD '97),

associate dean for engagement and professor of swine production medicine, who received the Raymond E. Plue Outstanding Teacher Award; and Dr. John Christian (AUB DVM Honors '82, PhD '92), associate professor of veterinary clinical pathology and director of the Clinical Pathology Laboratory, who received the Alumni Faculty Award for Excellence. Banners recognizing each recipient were displayed on stage during the ceremony and have been placed in the main Harrison Street entrance to Lynn Hall for the coming year.

### 2015 Dr. Skip Jackson Dog Jog

A record turn-out for the 2015 Dr. Skip Jackson Dog Jog helped organizers raise a total of \$3,667 for the Purdue Veterinary Medicine PetSafe Program, which provides emergency shelter for pets whose owners are affected by natural disasters, domestic violence, or severe health issues. Held on Saturday, September 12, at the end of the Purdue Veterinary Conference week, the Dr. Skip Jackson Dog Jog attracted nearly 190 runners along with 90 dogs.

Congratulations to event organizers Sarah Fisher (DVM Class of 2018) and Ashleigh Cournoyer (DVM Class of 2017) and their team of volunteers!

The Dog Jog is named in honor of Dr. Horace (Skip) Jackson, professor emeritus of veterinary physiology and biochemistry (pictured left with Katie Horzmann, who received the Largest Dog award for her dogs Keira and Galt), and is one of the longest-running traditions of the Purdue Veterinary Conference.



## 25<sup>th</sup> and 50<sup>th</sup> Reunion Classes Celebrate Milestones and Memories

A longstanding Purdue Veterinary Medicine tradition of recognizing alumni celebrating class anniversaries continued this year with the Meet Me @ the Mixer reception during the Purdue Veterinary Conference. The annual event held at the Purdue Memorial Union North Ballroom attracted an enthusiastic crowd of alumni, faculty, staff and students. Dean Willie Reed announced each class anniversary year and paid special tribute to the 25<sup>th</sup> and 50<sup>th</sup> reunion classes.

When members of the Silver Anniversary Class, the Class of 1990, were recognized, three class members joined Dean Reed on stage to announce the creation of a memorial scholarship. The fund is being established in memory of Robert Scott Cooper, who died while in veterinary school in 1987, and Dr. Amy Renner, who passed away in 2008.

Then, members of the 50<sup>th</sup> Anniversary Class, the Class of 1965, each were introduced by Dean Reed who presented them with a special 50<sup>th</sup> Class Anniversary medallion from the Purdue Veterinary Alumni Association as they came onto the stage. The Class of '65 alumni also participated in a special tour of Lynn Hall on Friday morning, September 11, when they donned white coats for a nostalgic stroll through some of the same hallways they traversed as students in the early 1960s. The special activities for the Class of '65 concluded Friday evening with a reunion dinner at the Beck Agricultural Center, located on the site of Purdue's Agronomy Center for Research and Education.



Dean Willie Reed joins 25<sup>th</sup> Reunion Class representatives (left-right) Raj Singh, Lucia Lemmer and Charles Vite who took the stage for an announcement about the Class of 1990's establishment of a memorial scholarship fund.



50<sup>th</sup> Anniversary Class member Gordon Lawler (right) greets former Purdue Veterinary Medicine faculty member Robert Lewis at the Class of 1965 Golden Anniversary dinner Friday, September 11.



Dean Willie Reed joins in with members of the 50<sup>th</sup> Anniversary Class who put on white coats for a nostalgic tour of Lynn Hall.



## PVM Golden Anniversary Class of 1965



PVM's Golden Anniversary Class (1965): front row (left-right) - Leon Thacker, Robert Rigney, Ron Crawley, George Irving, David Thoma, Gordon Lawler and Donald Wilson; second row - Roger Casbon, Jerald Jacobsen, Bill Humphrey; third row - William Haines, Roy Coolman, James Dixon and Norman Wilsman; back row - John Devries, Daniel Grimm, Richard Rudolph and Rodney Robison.

Professional conference photos can be viewed at:

[www.lauschphotography.com](http://www.lauschphotography.com)

Use the following usernames with the password "september2015" to log on and view or purchase:

Awards Celebration: 2015dvmawards

Meet Me @ the Mixer: 2015dvmmixer

## PVM Silver Anniversary Class of 1990



PVM's Silver Anniversary Class (1990): front row (left-right) - Lucy Lemmer, Diane Finch, Linda Hanneman, Cynthia Baker O'Dell; second row - Deb Gehrke, Andrea Glasser, Mary Benz; back row - Jose Almodovar, Raj Singh, Charles Vite and Steven Violanti. Picture inset: Richard Medcraft, husband of Linda Hanneman, who could not make it, but is still alive per Linda (Linda and Rich's sense of humor shows through).

## "X" is for Extra-Special: Meet Susan X., PVM's New Director of Alumni Relations and Special Events



I am thrilled to say that my first six months on the job have been fantastic! From meeting our amazing alumni and donors to working with an excellent team of faculty, staff and students in the College of Veterinary Medicine, and planning a ton of great events to recognize them all, I couldn't have found a better place to work!

My first month on the job, we hosted the Purdue Veterinary Alumni Association board for our bi-annual meeting. The board members have a lot of great ideas we are planning to implement in the coming year, and I'm excited to see them continue to grow as a board in supporting the College and our students and alumni. If you haven't yet renewed your membership in the PVAA, please take a moment to do so—and you won't miss any of the great fun coming this year. And in case you hadn't heard, all memberships will expire on December 31, 2015, so be sure to visit our website today.

We have had a flurry of special event receptions at ACVIM and AVMA where I met some of our great alumni and former interns. And no one can forget the fantastic Meet Me @ the Mixer at the Purdue Veterinary Conference. Most recently in October, we broke ground for the new Centaur Equine Diagnostic and Surgical Center in Shelbyville, Ind. There will be more special events on the horizon, so stay in touch!

In the coming year, we will be celebrating our 40<sup>th</sup> anniversary of the Purdue Veterinary Technology program and hope you will join us in some of the events we are planning. Additionally, don't miss us at receptions next year at Western Veterinary Conference and North American Veterinary Conference, among many other alumni meet-ups and celebrations.

I am anxious to meet everyone who has helped to create the legacy that is the Purdue College of Veterinary Medicine. If we have not yet met, please don't hesitate to contact me with any ideas or feedback you may have to help make our Alumni Relations stronger than ever.

Ever Grateful, Ever True,

Susan Xioufaridou

# UNEXPECTED KINDNESS:

## My Story About Learning Off-campus - Way Off-campus!

By Kara Miller, DVM Class of 2017

The first week of June, a group of about 50 veterinary students, veterinary professionals, and support volunteers joined together in San Carlos, Ariz., to do the unthinkable. This team of mostly strangers with varied backgrounds came together and efficiently completed a daunting and incredible challenge known as a Rural Area Veterinary Services (RAVS) Field Clinic.

RAVS provides free veterinary services to underserved rural communities among the Native Nations where access to veterinary care is limited for many reasons, including poverty and distance. It was a unique experience combining hands-on veterinary teaching while providing a high level of community service. The impact extended beyond the care given to the patients. Each animal we helped contributed to the overall health of the community. By improving basic veterinary care such as vaccinations and parasite control, the potential risk of contracting a zoonotic disease is significantly lessened, directly impacting the overall wellness in the community. This year marked my third RAVS trip and hopefully, not my last.

Every clinic has its stories, but this one is very special to me because of an unexpected relationship I developed with a young girl on the reservation. Though only ten years old, Erin is one of the most eager to learn, intelligent, kind and optimistic kids I have met. It is easy to get bogged down with the stress and workload of vet school; the interest Erin showed for veterinary medicine at such a young age reminded me of the passion I have had since I was a little girl. Working with her during this experience reminded me of my younger self and helped reignite the flame of passion that has fueled me on my path to becoming a veterinarian.

**“Unexpected kindness is the most powerful, least costly, and most underrated agent of human change. Kindness that catches us by surprise brings out the best in our natures.”**

**—Bob Kerrey**

No matter what the task, Erin was more than willing to help, no matter if it was wrapping surgical packs or cleaning the large dog crates. I was very impressed that Erin chose to attend school in the summer, thereby demonstrating the high value she places on education. While mentoring Erin at the clinic, I taught her about things like sterility in the surgery field, something that I didn't fully understand until vet school. After teaching her how to gown and glove for surgery, she asked if she could watch the spay of her own dog CoCo, who had a recent litter. At the end of the trip, I received a heartwarming handmade card and bracelet from Erin. Her thoughtfulness also extended to making handmade cards for many others on the RAVS team. RAVS presented her with a gift pack containing various vet related items



Erin with her dog, Coco, who was spayed by Kara and the RAVS team.



Kara (right) and fellow RAVS team member teach Erin (center) how to gown and glove for surgery.



such as vet wrap, gloves, a mask, a scrub shirt, a book on training dogs and much more. I have continued to keep in touch with Erin and hope she will look to me for mentoring in the future.

The clinic was a wonderful place to practice essential everyday veterinary techniques such as record taking, completing physicals, giving vaccinations and medical decision-making in a low-pressure environment. I gained an immense amount of surgical confidence, enhanced my ability to communicate to clients and made lifelong bonds with exceptional and inspiring people. Because I chose to volunteer, I made an impact on the overall wellness of members in the community by directly improving the health of their individual animals, by informing them about demonstrating proper animal husbandry, and by establishing a lasting relationship with a young, future veterinarian. The experiences I gained enriched my veterinary medical knowledge, strengthened my decision making ability in less than perfect situations, blessed me with many new friendships, and humbled me as I saw just how much the community members care about their pets. My hope is that I have encouraged you to do something kind for someone today, not because you expect kindness back, but to make the world a better place.



## VETERINARY TECHNOLOGY STUDENT TURNED FOSTER MOM *It's all about the kittens!*

Recent Purdue Veterinary Medicine veterinary technology graduate, Jessica Kanalos (PU VT 2015), with a foster kitten.

By Stephanie Camden

*Editor's note: the author wrote this story about a Purdue veterinary technology student as a project while she was a student in Ag Communications in the Purdue College of Agriculture. It is reprinted with permission.*

Jessica Kanalos, RVT (PU BS-VT 2015), was a Purdue veterinary technology major from Fort Wayne, Ind., working hard to balance her studies, a job and

her social life when she chose to become a foster parent. But, she wasn't chasing toddlers around her apartment. Jessica started fostering kittens to get them ready for adoption.

"Raising kittens has a lot of similarities to parenting," Jessica said. "Some kittens require frequent bottle feeding until they are able to be weaned. They require round-the-clock care keeping them fed, cleaned,

healthy and socialized.”

Jessica began fostering the summer before her senior year at Purdue, during prime “kitten season.” She has many responsibilities for every animal she fosters. Generally, she focuses on socializing the kittens and providing them with basic care. A big part of socializing kittens is letting them express themselves by playing with toys and other kittens, and being able to interact with humans. Jessica also allows her kittens to explore and mingle with the environment by allowing them free range in their own kitten room.

Her apartment has hand-written signs that read, “This way to the kitten playground.” “When searching for my new apartment in Indianapolis, one of the things I had on my list of necessities was an extra room for my kittens,” Jessica said. “People have said my kitten room looks like a baby’s nursery, but for kittens.”

The kitten playground is full of catnip-filled Kong Kickeroos with fluffy tails that are irresistible to the kittens, laser lights to chase, scratching posts, tunnels to run through and many other items. Jessica enjoys spoiling her foster kittens and along with the toys has cat trees, a big kitten playpen and a large shelving unit that the kittens jump on and off of all day.

“One of my favorite parts of the room is that I have decorated one wall with pictures of all my past foster kittens,” Jessica said. “I have fallen in love with all my foster animals and love to have their pictures up to remember them all.”

Kanalos treats these kittens as her own, and she tries to treat them with as much love as possible because they have never had loving owners before. She tries to make every experience with the kittens a positive one.

“I have the kittens at a very important time in their lives when they are developing and having their first experiences with a lot of things including socialization with humans,” Jessica said. “Every animal deserves to be loved and spoiled and I believe fostering helps set them up for their best shot at a happy ending in their forever home.”

Of course, it isn’t all play. Jessica works hard to make sure kittens will be successful in their new homes. She exposes the kittens to things they may encounter. That means she must handle them and trim their nails so they’ll be used to it. She also often finds herself fostering kittens that have more

pressing needs, such as ones that are sick and injured or others that may be feral.

“Sometimes it’s just kittens with an upper respiratory infection, so I have to give them antibiotics, but I’ve had a couple special needs kittens, too,” Jessica said.

One of those special needs kittens was Killian who was feral and had an injured leg that ended up being amputated. He was a fighter. Early on, Killian hissed at Jessica and wouldn’t let her touch him, but after a couple weeks he started to cuddle in Jessica’s lap and purr.

“A coworker told me I saved his life by fostering him and that really means a lot to me,” Jessica said. “Kittens like Killian are what make me keep fostering even when it is difficult.”

Even with loving care, not every case ends the way Jessica would like.

“I had a couple bottle kittens that I had to bottle feed and administer fluids and medication to every couple of hours that ended up passing away,” Jessica said. “They don’t all end in success, but they all do end with me giving 110 percent.”

Jessica shares all her experiences, good and bad, in her Foster Kitten Chronicles blog. The blog started as a way to record her memories as a foster parent, but as word spread, she began using it as a platform to educate other foster parents and pet owners.

Foster Kitten Chronicles features a range of topics: from Cat Toy Tuesday (which highlights different toys) to medical topics, to tips for kitten care. Her blog has reached a wide audience, including people at work, old classmates and people she has never met.

“I get some comments from people saying they’ve learned from my blog or my blog has opened their eyes to fostering and rescue,” Jessica said. “That is why I keep blogging.”

After graduating in May, Jessica started a full-time position at the Humane Society of Indianapolis. She said fostering will continue to be a big part of her life.

“I’m pretty sure I have convinced myself several times I needed to adopt one of my fosters and it’s so hard to take them back,” Jessica said. “But, I always remind myself there are more kittens that need me.”



# GIVING



PVM Office of Advancement Team (left-right): Kelly Gentry, Chad Rohlf, Tanya Finkbiner and Allyson Morton.

## MEET THE PVM ADVANCEMENT TEAM!

We've added several new faces to the PVM Office of Advancement over the past year, and our new team is now poised with enthusiasm to launch the Ever True campaign. In October, President Mitch Daniels announced "Ever True: The Campaign for Purdue University," which will focus fundraising efforts across three priorities: "Place Students First," "Build on Our Strengths" and "Champion Research and Innovation." The goal is to raise \$2.019 billion by 2019, the 150<sup>th</sup> anniversary year of Purdue's founding and the 50<sup>th</sup> anniversary year of alumnus Neil Armstrong's walk on the moon.

The PVM advancement team will strive to meet and exceed the College's Ever True Campaign goal of \$40 million in support for PVM initiatives. Leading this charge is Director of Advancement Chad Rohlf, who joined PVM last November with more than 25 years of fund raising experience.

Chad has led capital campaigns in two hospital organizations and also was a part of the Brilliant Futures Campaign at the University of Illinois, which raised \$1.67 billion. He believes the Ever True campaign will hold special meaning within the

College of Veterinary Medicine. "This campaign is really about celebrating and taking pride in our roots," Chad said. "Our PVM alumni have given our College a reputation for excellence in veterinary medicine not only within Indiana, but world-wide. Now is our time to build upon our rich history, and define the future for veterinary medicine at Purdue in the decades to come."

In his role as Director of Advancement, Chad travels throughout the U.S. facilitating connections between alumni and friends of PVM. Joining Chad in this effort is PVM's new Director of Development, Tanya Finkbiner. Tanya came to the College this fall after previously serving a development role for Mechanical Engineering at Purdue.

While Chad and Tanya are traveling to connect with PVM alumni and friends, at the ready within the PVM advancement office are Kelly Gentry, manager of donor relations, and Allyson Morton, administrative assistant. Next time you visit campus, please stop by the advancement office in Lynn Hall, Room 1177A, as our team would welcome the opportunity to meet you.

# DONOR HONOR ROLL

The following list recognizes donors whose contributions were received July 1, 2014 through June 30, 2015.

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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**We would like to honor alumni and friends who have designated the College of Veterinary Medicine as the beneficiary of a bequest, trust, retirement plan or life insurance policy, or have made other estate provisions for the College. We recognize these individuals who are committed to providing for the College's future by their thoughtful and planned approach. The following list recognizes donors whose commitments were made July 1, 2014 through June 30, 2015.**

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## IN MEMORIAM PROGRAM

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

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

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Albany Veterinary Clinic | Albany, IN

Albion Veterinary Clinic | Albion, IN

Alexandria Animal Hospital | Alexandria, IN

Allisonville Animal Hospital | Fishers, IN

Animal Care Clinic | Auburn, IN

Animal Care Clinic of Fox Valley, Inc. | Algonquin, IL

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Cat Care | Lafayette, IN

Cicero Veterinary Clinic | Cicero, IN

Companion Animal Medical Center | Carmel, IN

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Crestwood Animal Clinic | Crestwood, IL

Darlington Pet Clinic, Inc. | Darlington, IN

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Dyer Animal Clinic | Dyer, IN

East Pines Animal Clinic | Boonville, IN

East Side Animal Hospital | Evansville, IN

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Fountain Inn Animal Clinic | Fountain Inn, SC

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Hammond Pet Hospital | Hammond, IN

Hartford Animal Clinic | Farmland, IN

Hazel Dell Animal Hospital, P.C. | Carmel, IN

Highland Animal Hospital | Highland, IN

Hilltop Veterinary Services | Lamar, IN

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 York County Dog Training Club | York, PA

## Pet Traveler Helped Tell PVM Story for Purdue Day of Giving

When the Purdue University College of Veterinary Medicine needed an eye catching photo to help encourage donor participation in the 2015 Purdue Day of Giving, the obvious answer was a Tibetan terrier named Uma and her owner, Stuart Eckmann of Los Altos, Calif. Stuart and his wife Lois were so committed to their beloved canine companion that when Uma was diagnosed with bladder cancer, they arranged for Stuart to fly Uma to Purdue to be treated at the College's Veterinary Teaching Hospital by Dr. Deborah Knapp and her renowned Purdue Comparative Oncology Program team. With the cooperation of Purdue's School of Aviation and Transportation Technology, a photo shoot was arranged featuring Stuart and Uma aboard a Purdue plane at the Purdue Airport. Though Stuart and Uma actually flew to Purdue via commercial airline, the photo op uniquely conveyed the wonderful story of the Eckmann's bond with Uma and Purdue Veterinary Medicine.

The bladder cancer treatments extended Uma's life, though sadly, she has since passed away. Her memory lives on, however, captured in a series of adorable photos on the Purdue plane – photos that helped Purdue Veterinary Medicine achieve extraordinary success with the April 29 Day of Giving. A total of \$1,051,675 was contributed to the College, which placed PVM third overall among Purdue colleges and units in the on-line fund-raising campaign.



# PURDUE

## VETERINARY MEDICINE

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## UPCOMING PVM EVENTS

Save the date for these exciting events coming up in 2016!

<b>JAN 17</b>	Alumni Reception at the North American Veterinary Conference (NAVC)	<b>MAY 18</b>	Purdue University Center for Animal Welfare Science Spring Symposium
<b>FEB 6</b>	Horseman's Education Forum	<b>SEPT - OCT 27 1</b>	Purdue Veterinary Conference
<b>MAR 6</b>	Small Animal Veterinary Technician Specialty Symposium	<b>OCT 20-21</b>	Conference for the Human-Animal Bond
<b>MAR 7</b>	Alumni Reception at the Western Veterinary Conference (WVC)	<b>OCT 21-22</b>	David Van Sickle Orthopedic Research Days
<b>APR 16</b>	Purdue Veterinary Alumni Association (PVAA) Board Meeting	<b>NOV 13-14</b>	Pet Bird Symposium