

bellwether

NUMBER 75 | FALL 2011

THE NEWSMAGAZINE OF THE UNIVERSITY OF PENNSYLVANIA | VETERINARY MEDICINE



*Monitoring the Health of 9/11
Search & Rescue Dogs*

ALSO IN THIS ISSUE...

Class of 2015 By the Numbers

Penn Vet Collaborations Impact Animal and Human Health

Inside: Annual Report



Penn Vet

OFFICE OF ALUMNI RELATIONS,
DEVELOPMENT AND COMMUNICATIONassistant dean of advancement,
alumni relations and communication
MELISSA VON STADEdirector of annual giving and advancement services
MARY R. BERGERdirector of development for
matthew j. ryan veterinary hospital
HELEN RADENKOVICdirector of stewardship and special projects,
interim director of alumni relations
JILLIAN MARCUSSENdirector of development for new bolton center
JANE SIMONEdirector of communication
KELLY STRATTONcommunication specialist for new bolton center
SALLY SILVERMANadvancement services coordinator
PATRICIA STOKESspecial events coordinator
DARLEEN COLEScommunication coordinator
JOHN DONGESadministrative coordinator
ELANNA ALBANESEadministrative assistant
MICHELLE BROOKSadministrative assistant for new bolton center
ANDREA WITHERSphotographers
JOHN DONGES
DENISE FOLEY
GAYLE JOSEPH
SALLY SILVERMAN
KELLY STRATTONwriters
MARY BERGER
DENISE FOLEY
COREEN HAGGERTY
EVAN LERNER
JILLIAN MARCUSSEN
ANNAMARIE SARACINO
SALLY SILVERMAN
JANE SIMONE
KELLY STRATTONdesigner
ANNE MARIE KANEPlease address your correspondence to:
Kelly Stratton
University of Pennsylvania
School of Veterinary Medicine
3800 Spruce Street
Philadelphia, PA 19104-6010
(215) 898-1475
skell@vet.upenn.eduNone of these articles is to be reproduced in
any form without the permission of the school.© Copyright 2011 by the Trustees of the University of
Pennsylvania. The University of Pennsylvania values diversity and
seeks talented students, faculty and staff from diverse backgrounds.
The University of Pennsylvania does not discriminate on the basis
of race, sex, sexual orientation, gender identity, religion, color,
national or ethnic origin, age, disability, or status as a Vietnam Era
Veteran or disabled veteran in the administration of educational
policies, programs or activities; admissions policies; scholarship and
loan awards; athletic, or other University administered programs
or employment. Questions or complaints regarding this policy
should be directed to: Executive Director, Office of Affirmative
Action and Equal Opportunity Programs, Sansom Place East, 3600
Chestnut Street, Suite 228, Philadelphia, PA 19104-6106 or by
phone at (215) 898-6993 (Voice) or (215) 898-7803 (TDD).

contents fall 2011



4



8



16

bellwether

features

- 4 WORKING ON BEHALF OF WORKING DOGS
- 8 ADVANCING THE FIELD TOGETHER
- 12 WORLD AWARDS
- 14 EVENTS
- 16 SUMMER SNAPSHOTS
- 22 CLASS OF 2015 BY THE NUMBERS

departments

- 2 DEAN'S MESSAGE
- 24 CAMPAIGN UPDATE
- 25 ANNUAL REPORT
- 39 RYAN CASE STUDY
- 40 SERVICE SPOTLIGHT
- 42 RESEARCH BRIEFS
- 44 ALUMNI PROFILE
- 45 FACULTY & STAFF NEWS
- 49 CLASS NOTES
- 52 CALENDAR

about the cover:

Dr. Cynthia M. Otto, associate professor and director of Penn Vet's Working Dog Center, pictured with Roger Picard and Party Girl, Picard's 4-year-old Labrador retriever search dog. Picard responded to the 9/11 disaster with his then-K9 partner, Jessie, who was a 5-year-old yellow Lab, as part of the K9 Search Specialist team with Federal Emergency Management Agency (FEMA) Florida Task Force 2. Together, the duo worked the day shift in the general area of the South Tower for seven days. Picard now works with Party Girl as part of the same FEMA task force. Dr. Otto was a veterinary respondent to 9/11.



Photo by Lisa Godfrey

Every fall is a renewal. In academics we get many new years and the beginning of the academic year is a source of nostalgia and invigoration. We are all so fortunate to be in an environment to experience this newness year after year.

As always, one of the highlights is our incoming class. The strength of this year's first years is, like all classes, impressive. You'll see on page 22 a few statistics associated with our new students and I am sure you will be as impressed as I. Our admissions team has continued the tradition of admitting the next generation of exemplary veterinary leaders.

As we have weathered the economic downturn, I have often been asked to comment on the last few years, as we have managed through a crisis, emerging with renewed vision and vigor. We feel the worst is behind us, and, on reflection, this magnificent Penn Vet community has again proved its strength. This issue of *Bellwether* highlights many examples of Penn Vet's strength and success, evidence that as an institution and as individuals, we lead in increasing the impact of veterinary medicine.

You'll notice a number of collaborative projects, often led by Penn Vet faculty; vignettes of current students' summers; and the varied roles faculty are playing to ensure public safety and provide guidelines for disaster-relief efforts. The work we do with one another – whether within our own campus, across the wider Penn campus, across the nation or around the world – positions us to continue to lead the way in animal and human health.

One illustration is on page 8. Here, you'll read about just a few of the collaborations underway at Penn Vet. Dr. Charles Vite, assistant professor of neurology, and his work with Dr. Brian Litt, associate professor of neurology and bioengineering at the Perelman School of Medicine, is aiming to find an algorithm that will predict epileptic seizures in dogs and in humans, which has the potential to be life changing for both species. We also look at an example of taking what's learned in the lab to the clinics, as well as how the semi-feral pony herd at New Bolton Center is a shared living lab.

On page 40 you'll read about our strength in attracting the very best clinicians, committed to seeing Ryan Hospital's exotic companion animal service succeed. Now called our Exotic Companion Animal Medicine and Surgery Service, we added new leadership with Dr. Nicole Wyre, who is dedicated to making the expertise

of these specialized vets available seven days a week to patients in need.

This issue also features how veterinarians play an urgently needed role in protecting and advancing the health of the dogs who work on behalf and by the side of their human partners. On page 4 we highlight Dr. Cindy Otto, associate professor, and her engagement with those working dogs who ensure international security, as well as the work of Dr. James Serpell, director, Center for the Interaction of Animals and Society, who is leading research that will help service dog organizations better prepare and choose dogs that will serve people in need.

As always, I am delighted to share the many projects that demonstrate that our students are VERY engaged in an array of incredibly innovative and exciting initiatives, which you can read about on page 16.

In addition to these exciting and impressive advances and adventures, this issue of *Bellwether* is also an issue of giving thanks.

We have included an Annual Report, showcasing some of our most steadfast supporters, which begins on page 25. I am amazed by the number of friends and especially by those who have supported Penn Vet for consecutive years. On behalf of everyone at the School, I sincerely thank you.

Further, we are on track to meet the goal of our current \$125 million campaign early and we have increased our endowment, a result of wise and disciplined focus on protecting our future while transforming our ability to operate efficiently in the present. Because we are always concerned about student debt, we minimized the impact on our students; we did not rely on increased tuition nor increased class size in order to achieve financial sustainability. We are focusing, as we conclude the campaign, on raising funds to reduce student debt load.

I am also happy to share that, with the conclusion of the reappointment and review process, I continue as Dean until 2018. My vision for the second half of my tenure is to position Penn Vet as the clear leader in the global One Health Initiative. We will lead in increasing awareness of the role of our profession to advance all species' and welfare, in a healthy environment. With all of the initiatives currently underway, and the many engaged in visionary plans for the future, we are on a trajectory to reach that goal.

—JOAN C. HENDRICKS, V'79, GR'80
THE GILBERT S. KAHN DEAN OF
VETERINARY MEDICINE

WORKING ON BEHALF OF WORKING DOGS

VETERINARIANS' ROLES IN PROTECTING THOSE DOGS WHO PROTECT AND HELP HUMANS

BY KELLY STRATTON

Late last spring, people went crazy for Cairo. The Navy SEAL dog played an integral role in the special operations team to find Osama Bin Laden, and was an instant celebrity in mainstream media after the May 1 mission. Talk about how well Cairo was trained, speculation on its breed, the gear it wore while parachuting into the compound and the quest for more details about his role that day, ran rampant.

While a dog playing the incredible hero that Cairo played during that important mission was a revelation to many, Cynthia M. Otto, DVM, PhD, associate professor at Penn Vet and director of the Penn Vet Working Dog Center, was not surprised.

“Dogs have had multiple jobs historically in wartime settings,” she said. “Sentry dogs were used in the Second World War, and now detection dogs are one of the most vital jobs in the military. Dogs’ sense of smell is so much better than ours and they can readily detect improvised explosive devices (IED) and trip wires.”

HISTORY OF WORKING DOGS

Researchers say that dogs were domesticated approximately 15,000 years ago and played several roles to their human companions. From comradeship to hunting, herding and protecting, dogs have been a pivotal addition to human lives.

“It’s difficult to know what the earliest relationships between dogs and people were like, but it seems that wolves may have been domesticated first as social companions before they came to be exploited for other more practical purposes,” said James Serpell, BSc, PhD, director of the Center for the Interaction of Animals and Society at Penn Vet. “Soon after that, however, their working capabilities were recognized and put to use.”

And so a variety of jobs were found for our canine companions and the field grew and developed into more sophisticated roles. Today, for example, detection dogs help find lost or trapped people, human remains, explosive devices and illicit drugs. Dogs are also used to assist human efforts during major disasters, wartime and border protection.

Started in 1962, the Philadelphia Police Department was one of the first K9 units in the country.

“The biggest thing we use our K9 unit for is building searches,” said Larry Love, a handler/trainer with the Philadelphia Police Department’s K9 Unit, of which he’s been a team member since 1986. “For example, if we are looking for a burglar in a school, you need two or three officers to cover a floor, but you would only need one dog that could indicate the location of the burglar. It’s more time-consuming with manpower. Dogs save manpower and time.”

In Philadelphia, K9 dogs undergo 14 weeks of basic training, then 10 weeks of scent training for a total of 960 hours. K9 teams conduct 16 hours per month maintenance training after graduating and dogs live with their handlers.

“It takes six months to get a dog on the street,” said Love, who is working with his fifth dog, Duke, a German shepherd. “We purchase dogs with very basic training.”

Love says, too, that often, requests for K9 assistance increase when there is a disaster. He said that after the shooting at Columbine, Philadelphia ramped up its K9 presence in schools and after September 11 there was an overall increase in the need for these dogs.

And it was after the September 11 terrorist attacks that Dr. Otto became even more involved with these dogs.





Golden retriever Bretagne worked with handler Denise Corliss as a responder to the September 11 disaster.

ENSURING THE HEALTH OF CANINE HELPERS

Monitoring Responders' Health

As an on-the-ground responder to work with the search and rescue dogs who served at Ground Zero, Dr. Otto launched a longitudinal study, still ongoing and funded by the American Kennel Club's Companion Animal Recovery (AKC CAR), whereby she would follow the responding dogs and monitor any of their health problems. Out of the 300 dogs that responded, about 25 percent are still living.

"In the 9/11 study so far, we didn't see major impact on the respiratory system, but dogs don't get asthma so they aren't a good model for that," said Dr. Otto. "They have a better filtering system in their noses than people so maybe that's why their respiratory system wasn't affected."

There was, however, a trend in the heart.

"There is X-ray and some post-mortem evidence that there is a change in the heart in these dogs who serve," said Dr. Otto. "The pollution may have contributed in those changes rather than in respiratory changes. Understanding these changes may also be important for people."

Finding a DNA Fingerprint

Another of Dr. Otto's projects involves building a DNA Bank and Health Registry database, which may shed some

light on a dog's capacity to work. So far, the Bank houses more than 300 samples. It's work that the AKC CAR has supported.

The idea is that if a genetic fingerprint is found in these working dogs, information can be applied to help search and rescue organizations, law enforcement, breeders and handlers to identify factors contributing to the success of these vital dogs.

"If we know the DNA fingerprint we may be able to look at shelter dogs to pull to work, too," said Dr. Otto.

Because approximately only 30 percent of dogs entering detection-training programs are successful, this is important information that can be used to assist in breeding selection and the creation of more successful working canines.

Data collected includes blood samples for DNA and serum banking for dogs trained to detect live humans, cadavers, explosives or drugs; pedigrees/blood lines; training information; behavioral assessments; health assessments; training certifications and updates. Dr. Otto will use this data to perform genotyping of markers throughout the canine genome to detect linkages between health and working traits and specific regions of the genome.

In addition to her studies, Dr. Otto also started a semi-annual conference for working dog handlers. This year's conference "Defining, Developing and Documenting Success in Working Dogs," took place in Pearl River, New York and featured experts from around the world who discussed puppy selection and development; performance testing and certification; and physical conditioning of working dogs.

"Our mission is to share the knowledge available to improve the health, breeding and performance of working dogs," said Dr. Otto. "The US gets most of its dogs from Eastern Europe and often, they aren't the best of the best," said Dr. Otto. "They're good – really good – but we don't know how they are being bred and trained. This work will help us know which dogs to invest in and allow us to be self-sufficient in supplying domestically produced dogs as they're needed."

Taking Early Retirement

In some instances, working dogs are retiring themselves early.

These dogs, guide and service dogs, have jobs that assist the blind or physically handicapped and most are either German shepherd dogs, Labrador retrievers, golden retrievers or LR x GR crosses. According to Dr. Serpell, studies have shown that up to 20 percent of these kinds of guide dogs give up their work after only a short period of time.

"One to three years into the job, they seem to give up," said Dr. Serpell. "It's not clear to these organizations why that is. We want to predict why it is happening because training these dogs is expensive and time-consuming."

continued on page 7

PUTTING A PLAN IN PLACE

Dr. Lisa Murphy's expertise is called on to help animals while protecting people in Japan

BY SALLY SILVERMAN



On April 29, six weeks after the Fukushima Daiichi nuclear power plant began leaking radiation following the devastating earthquake and tsunami in Japan, Lisa Murphy, VMD traveled to the country to assist in relief efforts.

Dr. Murphy, an assistant professor at Penn Vet, was part of a team dispatched by the International Fund for Animal Welfare (IFAW)

at the invitation of the Fukushima Prefecture Department of the Environment. The goal was to assist rescue groups, veterinary associations and government agencies to determine the best way to cope with animals affected. Part of the group addressed agricultural livestock, another subgroup dealt with wildlife and Dr. Murphy's team focused on companion animals.

While the Japanese are devoted to their pets, and companion animals are living in homes in increasing numbers, there was no plan for their care when disaster struck. In addition, there was little understanding of the effects of radiation. While displaced residents longed to be reunited with their pets, concerns about whether the animals were contaminated, and how that could impact their owners, were very real.

PLANNING FOR DISASTER

Dr. Murphy was involved in the care of animals after Hurricane Katrina, as well as in the medical treatment of search and rescue dogs following 9/11. Since 1993 she has been a member of the American Veterinary Medical Association's (AVMA) Veterinary Medical Assistance Team (VMAT).

"During a disaster or emergency we can be called upon to do pretty much anything a veterinarian's qualified to do and that's how we've been trained," said Dr. Murphy.

It's that training that made Dr. Murphy a go-to expert to respond to the disaster in Japan.

Research has shown that up to 30 percent of evacuees attempt to re-enter a disaster zone to rescue pets. It was known that rogue rescue groups in Japan were entering restricted zones without protection, exposing themselves and others to chemical, biological and radioactive contaminants. This was a human health and safety issue as well as an animal welfare issue.

"You can't see radiation, or smell it or taste it," said Dr. Murphy. "With people, you can remove 90 percent of external radioactive contamination by removing clothing. You can't do that with dogs and cats."

Dr. Murphy co-chairs the National Alliance of State Animal and Agricultural Emergency Programs (NASAAEP) best practices working group responsible for developing guidelines for animal decontamination. Deciding on the team to travel to Japan, Dick

Green, EdD, emergency relief manager-disasters for IFAW, said that radiation expertise was key.

"In most of our responses," he explained, "we don't have a vet with us but have access to a veterinarian, back at the receiving end, who can triage an animal."

He emphasizes the importance of having a planning committee comprised of people with the knowledge and experience on the impact of radiation on humans and animals.

"This is huge from an animal welfare standpoint," said Green, "and huge as far as the potential impact on all species."

CREATING GUIDELINES FOR THE JAPANESE GOVERNMENT

Dr. Murphy and her team made recommendations for the rescue, decontamination, transport and housing of pets with the goal to keep people and animals together. The initial evaluation and decontamination process would be conducted in the warm zone, the region where animals were exposed to radiation, but at potentially tolerable levels, by teams with proper personal protective equipment. The area would also serve as a sheltering location.

A cutoff of 100,000 counts per minute, a measurement of radiation determined by a Geiger-counter-like instrument, was set for livestock. For pets, the cutoff was 10,000 counts per minute as an added margin of safety. If an animal, after two baths, still registered higher, it was likely internally contaminated by self-grooming or by eating or drinking contaminated food or water. These animals were at risk for systemic damage, and could spread radiation through feces and urine; they were reevaluated on a 10-day cycle.

As a result of the summit, the Japanese government launched an operation to remove abandoned animals from inside the evacuation zone in Fukushima Prefecture. A "Temporary Coming Home Project" was created, allowing residents to return to the evacuation zone to locate their pets for removal by authorized personnel. Officials have reportedly allowed evacuees to bring pets out of the danger zone to live with their people in temporary housing.



Above images courtesy of IFAW

Dr. Serpell thinks early retirement might be because offering guidance was not something dogs were bred for and is not an innate ability.

“There were two primary potential uses for which dogs seemed to have an innate ability,” said Dr. Serpell. “To defend a territory and to be a predator. In most working dogs, we exploit one or both of these traits. But, in the modern use of guide and service dogs, we are trying to develop dogs with behavior that is suitable for a specialty that isn’t in their original makeup.”

For decades, organizations like The Seeing Eye have been breeding dogs for a specific purpose of helping blind people in their day-to-day routines.

To help organizations like these and to provide dog owners with standardized evaluations of canine temperament and behavior to help predict a dog’s success in filling certain roles, Dr. Serpell and his team at the Center for Interaction of Animals and Society worked to create the Canine Behavioral Assessment and Research Questionnaire – or C-BARQ – currently the only behavioral assessment instrument of its kind to be extensively tested for reliability and validity on large samples of dogs of many breeds.

While many of these guide dog organizations use the C-BARQ regularly, Dr. Serpell wanted to take this work further to help to identify why so many of these dogs retire early.

So now, he and his team are working with organizations on an ongoing, three-year study with the aim to identify early-retirement causes. About a year-and-a-half into the work, the study asks end users of dogs to provide feedback through behavior measurement tools – like questionnaires and surveys -- at predetermined time points.

“We are trying to find out about the dog’s life at home, the attention they receive, their lifestyle, how much off-leash time they have,” said Dr. Serpell.

Questions address a handler’s working relationship with their dog, satisfaction with a dog’s behavior while working and while off-duty, and a handler’s non-working relationship with their dog, among others. In addition, the environment exposures of the dog and the handler are taken into consideration.

“Some of these dogs are attacked by other dogs,” said Dr. Serpell. “Some of them don’t have a lot of down time. We hope to offer constructive suggestions [to guide dog organizations] that will help them manipulate a dog’s environment and improve their rate of success and keep up with the need for these dogs.”

In addition to periodic questionnaires and surveys, Dr. Serpell’s team is collecting fur samples, which will be measured for cortisol levels. The higher the cortisol, the higher the likelihood of physical and emotional stress a dog may be feeling.

WHY VETS NEED TO BE INVOLVED

In all of this work, veterinary expertise is paramount.

The results from Dr. Otto’s first five years of the longitudinal 9/11 study will help to better equip veterinarians who care for dogs that work under similarly unique conditions and are exposed to toxic risks. In addition, it’s the watchful eye of a veterinarian that can speak for the canine workers in times of disaster response. Results from the continuing study may identify factors that contribute to mortality in dogs and humans. One intriguing result is that the search dogs, in general, are living to be 12 on average with many living to be as old as 16. This suggests that the mental and physical fitness and purpose of these dogs actually enhances their well being.



Clockwise, from left, Dr. Otto and the 9/11 responders head toward Ground Zero; Tsunami Wilson, 9/11 responder, owned by Marilyn Wilson; Dr. Serpell from the Center for the Interaction of Animals and Society.

“September 11 was the classic example of when veterinarians need to be on-site,” said Dr. Otto. “At some points, the welfare of the dog was not foremost and they were overloaded. Vets need to know when to intervene. Are the dogs dehydrated? Are the dogs eating enough? What are the potential hazards they’re facing? They’re always grooming – what might they be ingesting that might be toxic?”

Dr. Serpell agrees that it is up to the profession to advocate for these working canines.

“In military and working dogs, they are doing things they love anyway,” said Dr. Serpell. “Searching for stuff provides its own rewards. For guide dogs, it’s unclear how much they are being rewarded, but it seems as if a lot are perfectly happy. Dogs seem to be hard-wired to do things to please us. It’s innate. We’ve selected for this [in their breeding] and they just want to do anything they can to please us.”

“Dogs were bred to do work,” said Dr. Otto. “They need that mental stimulation. We just need to make sure they can work safely in these kinds of environments.”



Drs. Kendra Bence (left) and Erika Krick (right) review recent study findings while Penn Vet student Nadia Azam observes.

BY DENISE FOLEY

Advancing the Field {TOGETHER}

A hallmark of Penn Vet, collaboration is a daily exercise for researchers, students, clinicians and colleagues

You can't whistle a symphony, a wise man once said. It takes an entire orchestra to play it. At Penn Vet, the ability to collaborate with others has allowed researchers to create some beautiful music, not to mention elegant science, together with colleagues, researchers from around the world, industry and even students from other academic institutions. Collaboration can yield valuable results, as these examples illustrate.

Combating Cachexia in Cats

Kendra K. Bence, PhD and Erika L. Krick, VMD joke that they met “speed dating.” That’s what organizers called the ice-breaking exercise at an annual faculty retreat that threw together staffers with similar interests who otherwise might never talk to one another. That day, Drs. Bence and Krick found themselves at the same table; today, they’re at the same bench. The two are collaborating on a translational study looking at the similarities in cats and humans of cachexia, a metabolic wasting syndrome that occurs in cancer — often GI cancers — and other diseases.

It’s the perfect melding of professional interests. Dr. Bence is an assistant professor in the animal biology department where she studies the cellular mechanism of feeding and obesity in mice that serve as stand-ins for the humans caught in the double epidemic of obesity and diabetes. Dr. Krick is a clinical veterinary oncologist with a special interest

in studying and treating cats with lymphoma and cachexia. They've been joined by second-year Penn Vet student Nadia Azam (V'14) who was awarded a Merial scholarship to participate in the research. The Veterinary Clinical Investigation Center (VCIC) is also involved.



Dr. Krick examines a patient with cachexia.

Patients with cachexia — both feline and human — experience a loss of appetite, weight and muscle mass that isn't remedied by supplements or extra calories. They also respond poorly to cancer treatment.

“Cats who are skinny and not feeling well from their cancer may not tolerate standard chemotherapy doses. Sometimes they are given lower doses of chemotherapy, which could decrease the chance that they will respond,” said Dr. Krick, who is also collaborating with researchers at Texas A&M University on a study of feline lymphoma. “Also, we have found that cats that lose weight during treatment have a significantly shorter survival time than cats that don't lose weight.”

In fact, she says, as many as 30 percent of people with cancer cachexia die from the condition.

The villain? Likely pro-inflammatory cytokines, elevated in cancer cachexia patients, that speed muscle loss, decrease intestinal motility and gastric emptying leading to early satiety, and alter production of hypothalamic neuropeptides that govern appetite.

The first aim of the study is to discover if cachectic cats with cancer have different inflammatory markers than healthy cats and those with cancer but who aren't cachectic. The researchers are also looking at the gene expression of appetite controlling peptides in the brain, specifically the orexigenic neuropeptides NPY and AGRP that stimulate eating, and the anorexic neuropeptides POMC and CART that suppress the desire to feed. Preliminary results have been partially unexpected, but intriguing.

“Surprisingly we found no change in NPY and AGRP with fasting, but we did see the expected suppression of POMC and CART,” said Dr. Bence. “As we go on, we may need to expand the number of neuropeptides we examine. It may have been that the fast we did [overnight] with the cats wasn't long enough to see changes in orexigenic peptides. Or it may be that cats utilize alternate neuropeptides in their response to feeding and hunger compared to other species.”

Ultimately, the researchers would like to discover a marker that would alert a clinician — like Dr. Krick — that an animal is more likely to develop cachexia.

“Then,” said Dr. Bence, “it's not out of the question that we could design new treatment strategies for our feline patients that can be translated to humans.”

Sharing a Living Laboratory

Sue McDonnell, PhD, head of the Havemeyer Equine Behavior Research Program at Penn Vet's New Bolton Center, has learned that when you build a better herd, everyone will beat a path to your pasture.

The herd, in this case, is made up of 95 semi-feral ponies that roam 35 acres of lush grassland at the New Bolton Center in Kennett Square. Since the herd was started in 1994 (with 13 mares and 13 stallions from domestic stock), it has become a living laboratory, drawing not only equine researchers and clinicians from around the world, but high school students, university undergrads and graduate students, and vet tech and nursing students who might never have an opportunity to observe horses in the wild.

Or, in this case, the semi-wild. Penn Vet's ponies forage, mate when they want to, get plenty of exercise because they're never indoors, but, unlike wild horses, are acclimated to humans who provide some minimal veterinary care — and come to watch. (With a housing development abutting one



Dr. McDonnell's semi-feral pony herd serves as a living laboratory for Penn Vet students and researchers as well as for area universities.



Mare and foal behavior is just one of the many interactions Dr. McDonnell and her team study in the semi-feral pony herd.

pasture, they likely also get supplemental treats from young neighbors despite a large “don’t feed the ponies” warning on the fence.)

“It’s not exactly like going to see wild horses. They are contained, but that’s the beauty of it,” said Dr. McDonnell, who has been at Penn Vet since 1981. “We’ve seen them every day since 1994, and because their wandering is limited to the pasture enclosure we can observe the whole herd so we know a lot more about their natural social organization than we would if they were out west where the terrain is so tough and the forage is so sparse that the horses are spread out. There, the best you can do is stay with one family at a time, so you are unable to readily understand the social interactions among families.”

But it’s more than just convenience that lures researchers and students (from places like the University of Delaware, Delaware Valley College of Science and Agriculture, Penn State, Cazenovia College and Penn’s own psychology department) to this classroom on the hoof. It’s also what’s been — and can be — learned there.

“Once you get students attuned to natural horse behavior, they see that most health problems in horses have resulted from how we manage them,” said Dr. McDonnell.

The Penn Vet herd doesn’t experience the same health problems as domestic equines. There’s no colic, no laminitis and no sexual dysfunction, the bane of many breeders who also come to consult with Dr. McDonnell.

Since the herd has become a lure for students, said Dr. McDonnell, the center has created short courses specifically for them that their own institutions have neither the resources nor faculty to provide. As a bonus, she says, “these courses generate funds that help to support the herd.”

There have been some other unanticipated benefits of what could be called Penn Vet’s open pasture gate policy.

Ensuring a Safer Egg

Penn Vet researcher leads charge in developing safe-egg testing kit for FDA

In August 2010, an outbreak of *Salmonella* Enteritidis (SE) was responsible for illness in almost 2,000 people in at least 25 states. More than 550 million eggs were recalled from the market. While methods have been in place to test for the presence of SE in eggs, the traditional methodology is time consuming, requiring up to 10 days to determine the presence or absence of SE in egg samples.

Recognizing that this timeframe wasn’t acceptable, the microbiology laboratory at Penn Vet’s New Bolton Center has played a significant role in the development of rapid SE-specific molecular diagnostic methods. The polymerase chain reaction (PCR) test developed at Penn Vet allows quick determination of the presence or absence of SE in egg samples, and provides accurate results in approximately 27 hours — a tenfold reduction in waiting time for results.

This methodology came in handy for the Federal Egg Safety Program, which requires all large-scale producers in the US to test for SE before products reach consumers.

As a result, the *Salmonella* Enteritidis Detection Kit was developed by Shelley Rankin, PhD, associate professor of microbiology at Penn Vet and chief of NBC’s microbiology, in collaboration with The Life Technologies Corporation, which allows producers to quickly test their eggs for SE. FDA-approved for use in the Federal Egg Safety Program in early 2011, the kit was validated by Dr. Rankin’s lab.

“Penn Vet has been collaborating with the Commonwealth of Pennsylvania to ensure food safety for decades,” said Joan C. Hendricks, VMD, PhD, the Gilbert S. Kahn Dean of Penn Vet. “The adoption of our egg-testing protocols by the FDA illustrates our researchers’ success in their field and the importance that veterinary researchers play in ensuring public health and food safety. I am thrilled that Penn Vet is continuing to lead the way in setting the standard in food safety and public health.”

“The FDA equivalence determination for this test marks a milestone for the egg industry in this country,” said Dr. Rankin. “The Commonwealth was the first state in the nation to initiate a voluntary egg quality assurance program and the Pennsylvania Animal Diagnostic Laboratory System will be the first to implement this new level of testing. It’s very exciting that the FDA has adopted this test for the Federal Egg Safety Program. This action demonstrates their commitment to delivering the safest quality food to the consumer and I’m proud to be a part of that trend.”

Penn Vet has been active in the development and implementation of the state’s PEQAP (Pennsylvania Egg Quality Assurance Program), and much of what has been learned and shared by PEQAP forms the basis for the national Egg Safety Program. Dr. Rankin has more than 20 years experience in the detection and characterization of *Salmonella* from human and animal sources.

—Sally Silverman

“We get the opportunity to meet some real star students, some of whom are inspired to study vet medicine and apply to Penn,” said Dr. McDonnell.

And in one case, a student from the University of Delaware launched an ongoing independent study based on a Penn Vet project using recorded stallion vocalizations and stallion scent for estrus detection in mares. It’s allowing Dr. McDonnell and her colleagues to find a solution for a problem that faces small farmers but which can’t be tested in the Penn Vet research and teaching herd.

“Our mares are exposed to stallions on the property, but what if you’re out in the middle of nowhere with no stallions around,” she said. “At the University of Delaware, they had only a few mares at the time and no stallion. This project by one of our student visitors gives us the opportunity to do a real-world test of the problem.”

Predicting Epileptic Seizures for Novel Treatment Options

When it comes to epilepsy, dogs and humans have much in common. Their rate of idiopathic epilepsy is about the same. And their treatment options are similar — and equally inadequate.

“The problem for people with epilepsy is they may have a seizure once or twice a year, but they’re on medication all year,” said Charles Vite, DVM, PhD, assistant professor of neurology and neurosurgery in the Department of Clinical



Drs. Brian Litt and Charles Vite are working together to help humans and animals with epilepsy.

Studies at Penn Vet. “These drugs are not benign. They can have side effects, including cognitive dysfunction, depression and liver failure.”

And for over 30 percent of people — and dogs — the drugs don’t adequately control seizures.

But here’s where dogs and people differ. Epilepsy doesn’t usually dramatically circumscribe a dog’s life. It does for humans.

“People with epilepsy can’t drive, they have a hard time holding down certain jobs and they take a lot of drugs,” said Dr. Vite. “But what if they could predict when they were going to have a seizure, or when a seizure was likely to happen? If they had a box that would flash blue when they

were okay they could say, ‘Great, it’s blue today, I can drive,’ that would be a wonderful thing.”

Through a collaboration involving Penn Vet, NeuroVista, a premier medical technology developer with Penn Vet connections, and researchers at the Mayo Clinic, University of Minnesota and the University of California at Davis, that “wonderful thing” is one step closer to reality. The team is expecting to receive a translational research grant this fall and are awaiting a funding decision.

Dr. Vite, Penn neurologists Kathryn A. Davis, MD, and Brian Litt, MD, along with the VCIC, joined Mayo, University of Minnesota and UC-Davis researchers to test an implantable device in dogs that may predict a “perfect storm” in the brain’s electrical system that signals a seizure — before it even happens. The device was developed by NeuroVista, a Seattle firm specializing in implantable neurological products. Dr. Litt is a scientific advisor to the company; its vice president of clinical research is Penn Vet alum and Medical Scientist Training Program graduate W. Douglas Sheffield, VMD, PhD.

The device includes implantable (subdural) strip monitoring electrodes and a sub-dermal telemetry unit which wirelessly transmits EEG signals to an external personal advisory device (PAD), much like a pager, with colored lights — including the blue one Dr. Vite was talking about — as well as vibrating and audible alarms. The data is collected on ordinary flash memory cards and can be downloaded to a computer for storage and analysis.

The results of the first test, in six dogs with naturally occurring epilepsy, was published this year in the journal *Epilepsy Research*. Analyzing more than 11,000 continuous hours of iEEG data and clinical observation, the researchers found that canine epilepsy is “a promising model” for human epilepsy for testing implantable devices: When having seizures, dogs and humans share similar patterns in brain activity and observable symptoms.

Though far from market-ready, the device has the potential to exert profound effects on epilepsy research and care.

“If we are able to give people with epilepsy or a dog owner one-to-two hours notice before a seizure occurs, this will represent a massive change in how we treat epilepsy,” said Dr. Vite.

Instead of taking drugs every day, a person with epilepsy may be able to take a fast-acting antiepileptic drug only on days when a seizure warning is sounded.

While the long-range goal of the study is to find better ways to treat human patients, Dr. Vite said, “As I remind everyone, I’m a vet. I’m here to help dogs and cats.” In fact, he says, he has about 600 active epilepsy cases and this month [October] he launched a weekly clinic strictly for epileptic animals.

Fortunately, whatever the research in dogs uncovers to help humans will also help animals.

“It could give us more options to offer when we get calls from owners and breeders asking if there’s anything new for epilepsy,” said Dr. Vite. ■

2011 | World Vet & Student Inspiration Award Honorees

Advocating for human and animal health

BY SALLY SILVERMAN

On Wednesday, September 14, 2011, Penn Vet celebrated the World Leadership in Animal Health and Student Inspiration Award winners at the Annenberg Center for Performing Arts on Penn's campus.

This year's World Vet honoree was Ilaria Capua, DVM, PhD, director of the OIE/FAO and National Reference Laboratory for Avian Influenza and Newcastle Disease at the OIE Collaborating Centre for Diseases at the Human-Animal Interface and of the Research and Development Unit at the Istituto Zooprofilattico Sperimentale delle Venezie, in Legnaro, Italy.

The Student Inspiration honoree was Jonathan Lustgarten, PhD, a third-year Penn Vet student. The awards program has been established with a major gift from the Vernon and Shirley Hill Foundation.

Ilaria Capua, DVM, PhD



Dr. Capua's expertise as virologist, epidemiologist and communicator uniquely positions her as a worldwide leader in the field of avian influenza. She has used that position to foster a closer working relationship between the animal and human health professions.

"Working with our public health counterpart is exciting, and is a win-win effort," said Dr. Capua.

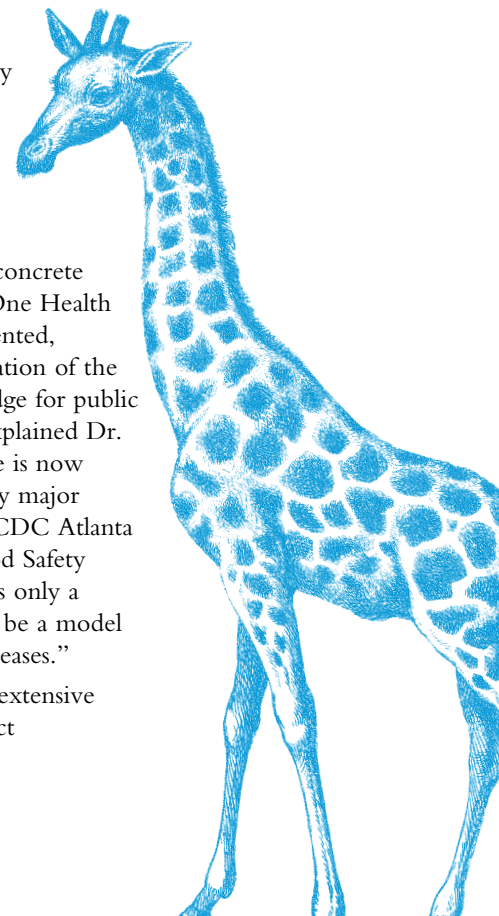
Since 1995, Dr. Capua has been involved with the European Commission through working groups related to viral diseases of animals, and, since 2003, on issues related to influenza pandemic preparedness. In 2005 she was nominated as Chairman of OFFLU, the OIE/FAO (World

Organization for Animal Health/Food and Agriculture Organization of the United Nations) network on animal influenza that offers veterinary expertise and crisis management support to developing countries.

In 2006, she refused to deposit the genetic sequence of the first African strain of H5N1 into a private database to which only 15 laboratories had access, preferring to deposit it into publically available GenBank®, the NIH genetic sequence database. This ignited an international debate on data sharing, which resulted in the launch of the Global Initiative on Sharing All Influenza Data (GISAID), endorsed by 70 medical and veterinary virologists and six Nobel laureates. Dr. Capua's vision to share avian influenza virus sequences to allow a better understanding of animal and human influenza infections using a transdisciplinary approach has become a core part of the global influenza preparedness strategy.

"The 'One Flu' initiative represents a concrete example of how the One Health vision can be implemented, resulting in an acceleration of the generation of knowledge for public and animal health," explained Dr. Capua. "This initiative is now being taken forward by major organizations such as CDC Atlanta and the European Food Safety Authority (EFSA). It is only a starting point as it can be a model for other emerging diseases."

Dr. Capua has had extensive experience in the direct



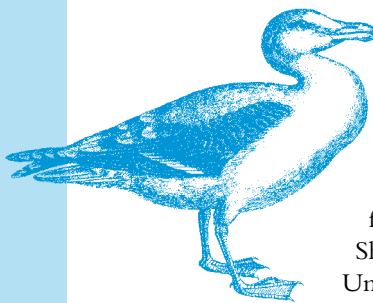
A special thanks to the 2011 committees...

2011 World Vet Award Committee

- Dr. Corrie Brown, *University of Georgia*
- Dr. Ron DeHaven, *AVMA*
- Dr. Shimon Harrus, *The Hebrew University of Jerusalem*
- Dr. Alan M. Kelly, *Chair of the Committee, Penn Vet*
- Dr. Derek Knottenbelt, *Liverpool University*
- Dr. Fred Murphy, *University of Texas Medical Branch*
- Dr. Soledad Macarena Vidal Ogueta, *Universidad Mayor*
- Dr. Mo Salman, *Colorado State University*
- Dr. Bernard Vallat, *Director General OIE*

2011 Student Inspiration Awards Committee

- Dr. Carla Chieffo, *Penn Vet Class of 1986*
- Dr. Peter Dodson, *Professor of Anatomy*
- Dr. David Galligan, *Director of VMD/ MBA Training Program*
- Dr. Mark Haskins, *Professor of Pathobiology*
- Dr. James Lok, *Professor of Parasitology*
- Dr. Rich Miselis, *Professor of Animal Biology*
- Dr. Michael Ross, *Professor of Surgery*
- Dr. James Serpell, *Director, Center for the Interaction of Animals and Society*
- Dr. Gary Smith, *Chief, Section of Epidemiology and Public Health*
- Dr. Sheldon Steinberg, *Professor Emeritus of Neurology*



for avian influenza and Newcastle disease and the OIE Collaborating Center for Diseases at the Human-Animal Interface.

In 1989, Dr. Capua graduated in veterinary medicine, with honors, from the University of Perugia.

She continued her education at Pisa University, where she obtained her postgraduate qualification as a specialist

in Animal Health and Hygiene in 1991. In 2007 she earned her PhD from the University of Padova.

“I am flattered to receive the Penn Vet World Leadership in Animal Health Award, and am particularly proud to be the first woman to receive it,” said Dr. Capua. “To me this recognition confirms that you need to direct your work where your heart tells you to go, and that a spark of common sense blended with a sense of ethical responsibility can change the rules of the game at very high levels.”

Jonathan L. Lustgarten, PhD



“I certainly have a different background from most of my fellow veterinary students in terms of overall interests,” said Jonathan Lustgarten, PhD, member of the Penn Vet Class of 2013 and winner of this year’s Student Inspiration Award.

The New Jersey native has known since he was five years old that he wanted to be a veterinarian.

“In college I developed an interest in computational biology, which tries to model life on a computer,” said Dr. Lustgarten. “I knew that once I finished veterinary school I would want to get right to work, applying the knowledge I gained there, so I chose to pursue my other academic interests first.”

Dr. Lustgarten earned a bachelor of science degree from Carnegie Mellon University in computational biology with a minor in chemistry. He earned both his master of bioinformatics and PhD in biomedical informatics from the University of Pittsburgh School of Medicine.

His academic interests, based in advanced technological modeling and analysis, may seem a long way from examining room or stall-side care, but it is Dr. Lustgarten’s dreams of a unique veterinary application that will connect his interest in technology with the education from Penn Vet.

Dr. Lustgarten’s Student Inspiration Award-winning proposal outlines his vision to develop a state-of-the-art, easily deployable veterinary health record system that will assist vets and staff in the care of animals during disaster

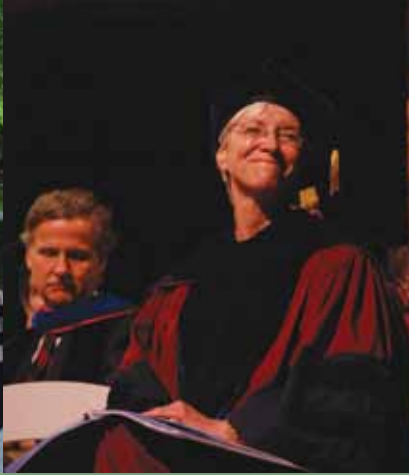
continued on page 47

management of several avian influenza and Newcastle disease epidemics and in 2000 developed the DIVA (Differentiating Infected from Vaccinated Animals) vaccination strategy. This innovative strategy enabled the continuation of trade while combating avian influenza by vaccination. As a result, avian influenza was eradicated from Italy at that time.

Dr. Capua’s contributions to global health are evident in a review of her most recent professional assignments: Senior Policy Advisor to the Director NCZVED, CDC; Member of the Scientific and Technical Advisory Group to World Health Organization’s Global Influenza Program; Member of the European Technology Platform for Global Animal Health; and many, many more.

Dr. Capua has authored more than 300 publications since 1990. Most of her research and writings have focused on viral disease of animals and those of zoonotic importance. Dr. Capua has extensive experience in managing projects funded by international organizations and agencies such as the European Commission, FAO and the OIE. She is currently involved in several international efforts bringing together medical and veterinary virologists.

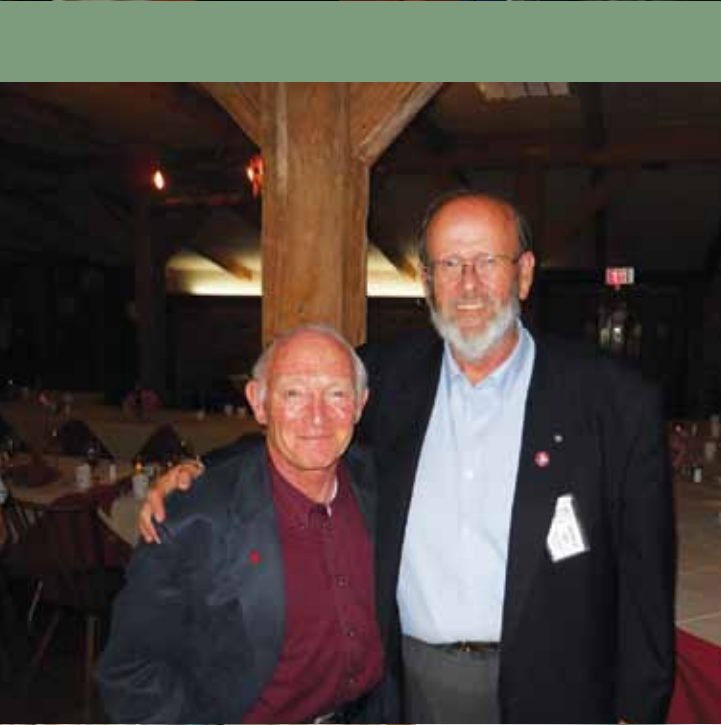
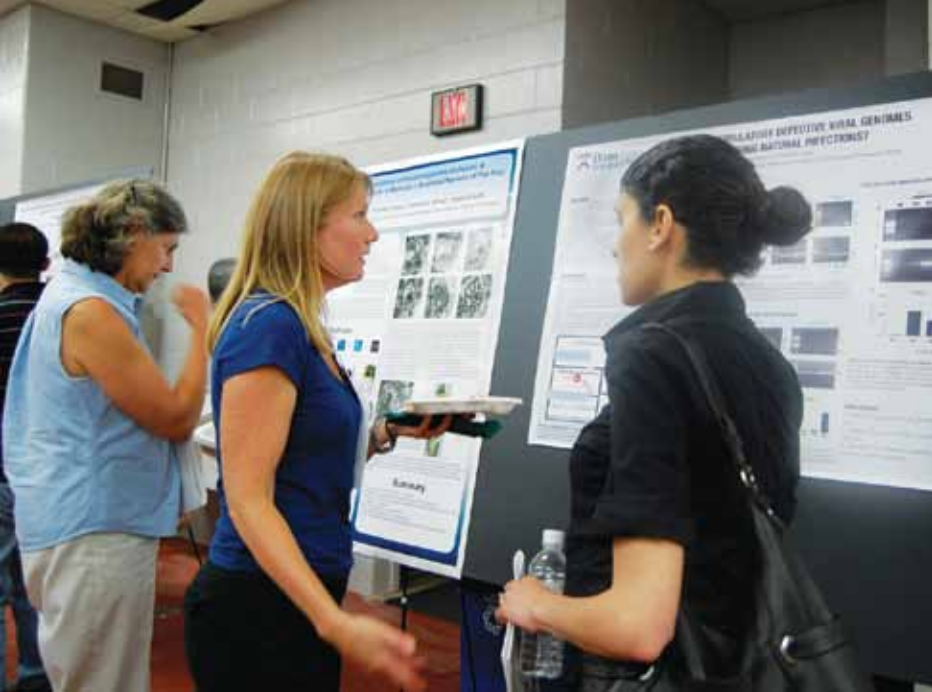
Dr. Capua is director of the OIE/FAO and National Reference Laboratory for Avian Influenza and Newcastle Disease at the OIE Collaborating Centre for Diseases at the Human-Animal Interface and of the Research and Development Unit at the Istituto Zooprofilattico Sperimentale delle Venezie, in Legnaro, Italy. The Institute hosts the National, FAO and OIE Reference Laboratory



Spring and summer at Penn Vet. Photos, across both pages and clockwise from top left: Class of 2011 Commencement, which featured Judge Judith Sheindlin as keynote speaker; the Annual Faculty Research Retreat at New Bolton Center, at which Dr. Kendra Bence earned the Pfizer Award for Veterinary Research Excellence; First Tuesday Lecture Series, a series of free lectures hosted at New Bolton Center on the first Tuesday of each month. Here, William Gilsenan, VMD talks with an attendee after his lecture; Wednesday Exchange, an event providing continuing education to primary care vets with lectures from Penn Vet faculty; students from the annual Azabu exchange program, whereby veterinary students from Japan shadow clinics to learn about veterinary medicine in the US.

events





events



Summer as a Penn Vet student does not mean long, lazy days sitting poolside or vacationing with families. Instead, several students take these nearly three months to continue their classroom and clinical education with real-life experiences in the field.

Here we highlight a few students' summer stories spent traveling the world and nation ...



India Summer

Penn Vet V'13 students Audrey Barker, Kathryn Dalton, Shannon Kerrigan and Jamie Rettig spent part of their vacation in India, where they traveled to observe some of the veterinary issues there and help the locals provide basic wellness care to shelter animals.

This summer we had the opportunity to visit and explore the veterinary needs of Kolkata, India and to work with a human medical non-governmental organization (NGO) founded by a Penn medical student that is running clinics in the impoverished slums. In addition, we worked with the NGO to help them with their childhood educational program aimed at health awareness.

We also had the chance to run our own clinic at a local animal shelter that housed both dogs and cats, where we provided physical exams, rabies vaccinations and administered

de-worming medications. For research purposes, we were able to obtain fecal samples from the shelter animals to determine their parasite load and were surprised to learn that it's not much different than that of our own shelter animals!

We visited the Sunderbans Tiger Reserve, the largest coastal mangrove forest with the highest population density of tigers in India, where we had the once-in-a-lifetime opportunity to see a wild Royal Bengal tiger, the national animal of India, being released back to the forest after it snuck into a local village.

The village we stayed at, Pakhiralaya, was hospitable and friendly. We were warmly welcomed into people's homes, where we were invited to dinner and to hold their babies. The natives there told us that after cyclone Aila hit in 2009, their cow population was reduced to one-tenth of what they'd previously had, and the soil composition changes have severely decreased the available vegetation for these animals.

All four of us were so moved by the plight of these kind people, that we decided to establish an NGO based in the Sunderbans, which would bring veterinary care, animal husbandry education, human health clinics and childhood education to these deserving people. For more information about this initiative, or if you would like to be a part of this exciting project, please visit www.meresaaathi.org.

—KATHRYN DALTON

Adventures in the Kalahari

Penn Vet V'13 student Ben Golas spent his summer as part of the Botswana-UPenn Partnership, a program that aims to use an interdisciplinary approach to train health-care personnel in Botswana in prevention and treatment of HIV/AIDS with an end-goal of developing post-graduate training programs at the University of Botswana and offer global health experience to Penn trainees while developing joint research programs that address issues relevant to the

health and welfare of the citizens of Botswana. There, Ben shadowed both small- and large-animal veterinarians and also spent time doing wildlife work.

The Kalahari at first glance is little more than flat grassy veldt far as the eye can see. However, this ecosystem, comprising the majority of Botswana, is anything but empty. Before beginning my third year at Penn Vet, I spent my



summer working with Dr. Mark Bing, a private practice owner in Botswana. I came here to study the interactions between man, agriculture and environment in Africa's oldest democracy.

There is no summing up the huge experience of three months in so few words. When we were not treating tick fevers and baboon bites on dogs at the small animal clinic, we were rushing across the country performing pregnancy diagnoses on various cattle ranches. We also worked with feedlots and the Botswana Meat Commission to prepare the country to export beef to the European Union, all in the midst of a spreading foot and mouth disease outbreak.

The highlight of the experience was our wildlife work. Few countries are so inextricably linked with their natural ecology; we have seen kudu, giraffe and cheetah just driving through farms. Some landowners purposefully keep wild animals on the farm to shape the flora, thereby retaining the natural Kalahari environment and minimizing effects of cattle grazing. We collared a leopard and lioness to study predator interactions with people and livestock, a key component of research towards conservational movements.

Integrating efforts of scientists, farmers, and veterinarians: this is how we preserve our future. Please visit bengolas.wordpress.com to read more about my adventures and insights.

—BEN GOLAS

Understanding Dairy Management in Thailand

Brittany Gross, a third-year Penn Vet student, received a 2010 Penn Vet Student Inspiration Award to develop a Dairy Education Center (DEC) in Thailand. This summer, Brittany returned to the country, and met up with key collaborators from the US and Thailand to begin preliminary research necessary to begin her work toward fulfilling this endeavor. For more information on the DEC and the progress Brittany is making, visit www.dairyeducationcenter.org/.

This June I returned to Thailand to resume in-country work on the Dairy Education Center (DEC) project. Eventually, I will work toward the construction of a dairy farm teaching facility, but the priority for this summer's trip was to research and analyze dairy management and farming practices specific to Northeast Thailand (a region referred to as "Isaan").

I am working with veterinary students and professors from Penn Vet, Minnesota's Veterinary School, Khon Kaen Veterinary School (in Thailand) and the University of Vermont to collaborate on this project.

This summer we were welcomed onto the farms of 20 dairies, all of which are family-owned and average 15 to 35 lactating cows. We spent the afternoons getting to know the

continued on page 19

Summer Veterinary Exploration Through Science (VETS)

For the third consecutive year, the Penn Vet admissions team hosted its week-long Summer Veterinary Exploration Through Science (VETS) non-residential day program, during which potential future veterinarians spend their days learning about what it takes to be a vet student.

This year, the admissions team received 162 applications to fill a total of 90 slots; 54 were college/post-baccalaureate students, while the remaining 36 were comprised of high-school-aged students. A total of five one-week sessions were held, during which participants joined faculty, staff and current students on clinical rotations, attended lectures and visited both Penn Vet campuses.

"The main goal of this program has been to give these participants a meaningful, yet realistic, experience in veterinary medicine both academically and clinically," said Rob DiMeo, recruiter/counselor, Penn Vet Admissions.

Added Rosanne Herpen, associate director, Penn Vet Admissions, "The VETS program allows students the opportunity to determine if a career in veterinary medicine is something that they wish to pursue."

The following is an essay written by VETS participant Katelyn Laury, a senior biology major at Washington College in Chestertown, Maryland.

"What do you want to be when you grow up?"

Although many people are unsure of this answer until right before college graduation, a student looking into veterinary medicine must put a great deal of thought and preparation into their future career.

As a senior at Washington College, the vet school application process is now upon me, and although I have spent countless hours aiding creatures in the veterinary clinic, vivarium, the Lehigh Valley Zoo and animal shelter at which I work, I still felt that I could use additional animal experience before plunging into veterinary school. After hearing about the Summer Veterinary Exploration Through Science (VETS) program at Penn Vet, I knew there would be no better way for me to receive additional knowledge than through the renowned faculty at the University of Pennsylvania's School of Veterinary Medicine.

Now that I've completed the week-long camp and have had time to reflect on my experience at Penn Vet, I can honestly say that the VETS program not only met my original expectations, but exceeded them.

When I originally envisioned going on rotations with fourth-year vet students, I imagined I would simply be along

for the ride, catching tidbits of information here and there. During my time on the surgical and oncology rounds, I found that I could not have been more wrong. On both rotations, all faculty members actively included me in the cases.

Patient histories were shared, as were descriptions of the animals' ailments and medications. Staff members also encouraged questions, which allowed me to better understand how complex treatments such as chemotherapy and radiation work and when it is best to use them.

In addition to the clinical rotations, the labs offered were also informative and interactive. During the anatomy and pathology labs, for example, I handled different organs and portions of skeletal systems from animals of varying species. These up-close experiences made it easy to envision the internal aspects of differing medical conditions, such as navicular disease, cancer and ovarian cysts.

Aside from the medical knowledge I gained during the VETS program, I also learned how to stay positive during the admissions process, and most importantly, I realized that I could not imagine having a job other than being a veterinarian.

When current Penn Vet students were asked what they thought the most difficult part of getting into vet school was, the unanimous answer was that you have to believe you can be accepted. Indeed, with only 28 vet schools in the country, the competition to get into one is quite high, and that is one of the first things people point out when you tell them that you want to be a vet. By hearing how these students overcame this obstacle, it helped me have faith that if I spend enough time with my books and a variety of animals, that my dream is, in fact, attainable.

No matter how difficult the academics may be, after seeing the happiness on the faces of animals fighting for their lives and the enthusiasm each of the doctors had to help these courageous pets, I was reminded of my own passion for animals. I cannot envision a more rewarding career than becoming a veterinarian and I have the VETS program to thank for that reminder as I pave my own path to vet school.

—KATELYN LAURY

Katelyn Laury is a senior at Washington College in Chestertown, Maryland. With plans to earn her bachelor's degree in biology in spring 2012, Katelyn hopes to continue her education and will be undergoing the vet school admissions process throughout the 2011-12 school year.



continued from page 17

families and workers, watching milking procedures and then meeting to discuss farm protocols on reproduction, nutrition, production, milk handling/sanitation and veterinary care.

Visiting the farms, but more importantly speaking with the farmers, has helped us better understand the intricacies of dairy farming in Isaan, where the DEC will be constructed. The majority of the families began dairy farming less than 10 years ago and most of their training consisted of a two-week dairy management course provided by the government. Our goal for



the DEC teaching facility is to merge existing methods of Thai farming with efficient dairy practices, adopted from countries that have been dairy farming for centuries. The result will be a teaching facility that will model profitable dairy farming methods that are implementable on the family farms in Isaan.

—BRITTANY GROSS

Searching for an “Aha” Moment on the East Coast

Adam Seth Yoskowitz is a third-year Penn Vet student who spent his summer exploring an array of paths open to him in veterinary medicine. Beginning in Vermont, Adam made his way down the east coast, stopping in New York and ending his summer stints in New Jersey.

For the past two years I have searched for an “aha” moment, when I would be sure of what path to take in veterinary medicine. I wanted to use this summer, between my second and third years at Penn Vet, to gain as much and as varied experiences as possible, with the hopes of finding that very moment.

My summer began with an externship at the Vermont Large Animal Clinic, an equine hospital serving a vast area of northern Vermont and New York, providing ambulatory services as well as in-house surgery. The average day could range from lameness exams at a nearby barn, to routine vaccinations at a small hobby farm in the Adirondacks. It was rewarding to see cases in such picturesque settings.

Next I traveled home to New York for an externship at the County Animal Hospital, a small animal hospital, where I worked as a teenager. Here I joined Dr. Robert Weiner (V'80) and Dr. Susan Rothstein with their primary caseload of dogs, cats and the occasional bird. I saw many of the usual wellness patients, but there were a few out-of-the-ordinary cases including the diagnosis of a thymoma in my 7-year-old rabbit, Chester.

The last stop for my summer adventure was at the New Jersey Equine Clinic with Dr. Scott Palmer (V'76), and Dr. Jennifer Smith. This practice is an equine referral hospital catering primarily to racehorses. Throughout my stay, I was lucky enough to see some very interesting cases such as severe corneal ulcers and several locked stifles. Each of these summer experiences has given me a firsthand look at paths I could take in my career, but, now that they are over, I realize the more I see, the more I just want to do everything! It seems that the hunt for my elusive “aha” moment continues...

—ADAM SETH YOSKOWITZ



Setting a Tradition in Thailand

For the second summer in a row, a group of Penn Vet students traveled to Thailand where they participated in a community outreach project sponsored by Government Housing Bank (GHB) that offered spays, neuters and vaccination services to underserved cats and dogs. During their stay, the 16 students performed approximately 105 spays and neuters and vaccinated about 285 animals.

Here, Christine Caro, a third-year student and vice president of the International Veterinary Student Association (IVSA), which works to plan the trip, shares her experience.

The morning was hot (though not as hot as expected) and humid. Sweat already beginning to wet our scrubs, we began to set up at the temple in Ayutthaya, Thailand for our fifth day of surgery. Unlike other surgery days in Chiang Mai and Kanchanaburi, Thailand, where all animals were owned, the patients we would treat that day were all strays, cared for by the temple's resident monks. Animals roamed the grounds freely, many of them scarred and hairless, nearly all emaciated.

By now we had our set-up routine down. Mobile clinic supplies were unpacked, IV fluid bags were hung and prep and surgery tables were set.

The Thai clinic we partnered with, Vet4 Polyclinic, had a mobile clinic/surgery suite so we were able to have three surgery tables of inhalant anesthetic. They also had at least two of their own vets present each day – Dr. Chaiyaporn Phonsuwan, or “Dr. Nao” as our group called him, was always there to assist with surgeries, and there was always an associate vet in charge of drawing up all pre-med and post-op drugs.

We also had the guidance of Dr. Molly Northrop, a Penn Vet grad and an emergency vet at Mount Laurel Animal Hospital, who provided invaluable teaching and skills, as well as peace of mind whenever we got flustered.

Because the monks have a working knowledge of all of their resident animals, they pre-determined which animals they wanted us to treat. These animals were scattered throughout our surgery area, tied to poles or trying to escape their cages.

Each student group had a designated surgeon, assistant and anesthetist. Our group consisted of primarily rising third-year students with a handful of rising second years. In these roles, third-year students talked through their surgeries, playing a dual role of surgeon and teacher to the second-year students.

Teaching the other students increased my confidence and reinforced everything I'd learned both in class and on my previous surgery trip to Thailand.

In addition to honing my surgical skills, this trip taught me about my fellow classmates and working as a group under less-than-ideal situations, about understanding a completely different culture and religion, and about providing the best possible medicine within the provided means.

And, as I eagerly anticipate starting clinics next spring, I can't help but feel a little jealous of the students that will be traveling to Thailand next summer.

—CHRISTINE CARO





SCAVMA auction

12.2.2011

- >> Hill Pavilion
- >> Silent Bidding Begins at 4:00 PM
- >> Live Auction Begins at 6:00 PM
- >> Proceeds Benefit the Student Chapter of the American Veterinary Medical Association at Penn Vet



Please contact PennVetAuction@gmail.com to donate today!

contact

THE VETERINARY HERITAGE CIRCLE

Are You a Member?

We are thankful to those that have made the ultimate commitment to Penn Vet as members of the Veterinary Heritage Circle of the Harrison Society, a program that allows friends and supporters to include Penn Vet in their estate plans.

It is, of course, through the generosity of alumni, supporters and friends that the University of Pennsylvania School of Veterinary Medicine is able to meet our mission of teaching, healing and research while leading the field in new treatment advances, ground-breaking research discoveries and educating the brightest young minds in the profession.

Veterinary Heritage Circle Members have made a commitment to helping Penn Vet reach our mission by including us in their estate plans through bequests, trusts, charitable gift annuities, retirement plans, life insurance and other arrangements. In doing so they have created a legacy that will have a lasting impact on the future of veterinary medicine.

To join the Veterinary Heritage Circle, or to learn more about the benefits of membership, please contact us at:

University of Pennsylvania School of Veterinary Medicine
Office of Gift Planning
215.898.6171 or 800.223.8236
giftplanning@dev.upenn.edu
www.makinghistory.upenn.edu/giftplanning



NOVA



CLASS OF
2015 BY THE
NUMBERS

TOTAL NUMBER OF
NEW STUDENTS

119



50.4%

TOTAL PERCENT
OF UNDERGRAD
BIOLOGY MAJORS



19

TOTAL NUMBER
OF STATES
REPRESENTED

43

TOTAL NUMBER
OF PENNSYLVANIA
RESIDENTS



AVERAGE
GPA

3.58



23.9

AVERAGE AGE
OF INCOMING
STUDENTS



MAKING HISTORY
THE CAMPAIGN FOR PENN

BY JANE SIMONE

With approximately 15 months left in Penn Vet's capital campaign, it is wonderful to let you know that we are \$118 million towards our \$125 million goal. Funds raised to date through the consistent, generous support of our loyal donors strengthen Penn Vet's position as a pre-eminent teaching, research and service institution. It could not be done without your matchless goodwill.

This campaign is critical to our ability to produce the very brightest and best of new veterinarians, to uncover knowledge and understanding of conditions and diseases that afflict both our beloved animals as well as humans, and to develop the most innovative and effective treatments for the animals entrusted to our care. Twenty-first century veterinary medicine is practiced on a par with human medicine and demands the kind of infrastructure and equipment consistent with modern technology and scientific advances.

A significant example of progress on our campuses is the planned Equine Performance Evaluation Facility, for which ground is anticipated to be broken in March, 2012. The trend in equestrian sport is towards disciplines like dressage, show-jumping and three-day eventing. Care of the equine athlete demands specialized facilities in which to evaluate performance, diagnose subtle lamenesses and detect musculoskeletal problems using sophisticated equipment in conjunction with our clinicians' highly developed observational powers. For New Bolton Center



Artist's rendering of the Equine Performance Evaluation Facility.

an indoor arena represents a "great leap forward" in terms of our ability to conduct lameness examinations, performance diagnostics and other critical tests in a safe, comfortable environment conducive to accurate and reliable assessments of a horse's mobility.

The much-anticipated facility will provide superior footing, optimal lighting and a dedicated space protected from the elements. It will be a boon to clinicians, clients, students and of course, our patients.

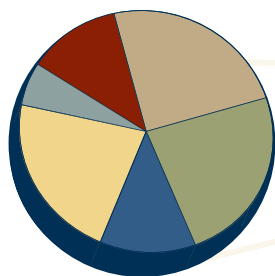
The School has had the dedicated support of a number of key individuals who have not only made significant gifts towards the cost of the indoor arena, but have also worked with dedication and passion to bring others to the cause. It has been a remarkable example of cooperation and effort that gives true ownership of the facility to those who have joined together to make it a reality. We look forward to a wonderful celebration at the EPEF's dedication next year!

The Ryan Hospital is equally proud to announce the opening of its Minimally Invasive Surgery Suite (OR1), which makes available to our companion animals the very best of 21st century surgical techniques. Dr. Lillian Aronson, chief of surgery at Ryan Hospital, observes that this facility "offers our clients cutting-edge technology and procedures available until now only to human patients."

Minimally invasive surgery contributes to decreased recovery time, reduced pain levels and minimized risk of infection. It is the surgery of the future, available now. And it provides an exceptional learning experience for Penn Vet students to develop highly specialized surgical skills not offered in other veterinary training hospitals. For example, they will be able to assist in minimally invasive spays of shelter dogs, an invaluable service to both the community and the shelter animals whose adoptability depends on having had this procedure.

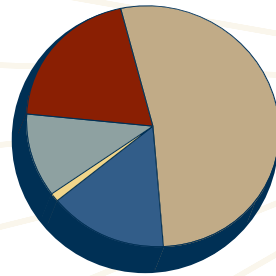
The advent of these two specialized spaces at New Bolton Center and the Ryan Hospital speak volumes about the momentum of our *Making History* Capital Campaign. They epitomize the great loyalty, generosity and kindness generated in all of you by the work done at Penn Vet. Thank you for partnering with us to reach our \$125 million goal. You make it happen. ♥

FY12 Budget Revenue by Source



- 24% Sponsored Programs
- 24% Other Income
- 12% Tuition & Fees
- 22% Commonwealth Appropriation
- 6% Investment Income
- 12% Gift Income

FY12 Budget Expenditures by Type



- 20% Current Expense
- 11% Capital Transactions
- 1% Student Aid
- 15% Allocated Cost
- 53% Total Compensation

special gifts to the school

Your contributions play a critical role in our ability to serve the citizens and animals living in Pennsylvania and beyond. I thank you all for your support, and I hope we can count on your continued investment in the University of Pennsylvania School of Veterinary Medicine for years to come.

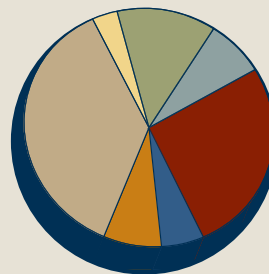
Joan Hendricks

Joan C. Hendricks, V'79, GR'80,
The Gilbert S. Kahn Dean of Veterinary Medicine

2011 board of overseers

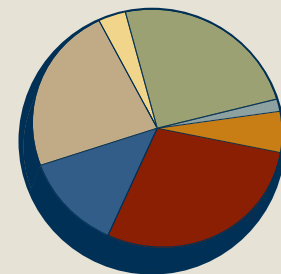
- Mrs. Mindy H. Heyer, *Chair*
- Mrs. Catherine G. Adler
- Steven W. Atwood, VMD, MD
- Mrs. Patricia L. Billhardt
- Mrs. Krista L. Buerger
- Carla Chieffo, VMD
- Ms. Christine C. Connelly
- Ms. Beverly Ensor
- Mr. Jay S. Fishman
- Mr. Walter F. Goodman, *Emeritus*
- Mr. Vernon W. Hill, II
- Mrs. Gretchen Jackson
- The Honorable Patricia Jenkins
- Laurie J. Landeau, VMD
- Mr. Robert P. Levy, *Emeritus*
- Mr. Ronald H. Menaker
- Mrs. Gail Riepe
- Mr. Jerry Rosenthal
- Mrs. Robin Rubenstein
- Mr. John P. Shoemaker
- Mr. Adam G. Silfen
- Robert W. Stewart, VMD
- Mr. Judson Streicher, *Emeritus (deceased)*
- Ms. Lynne Lichtenstein Tarnopol
- Ms. Eve Lloyd Thompson
- Dr. Eli N. Avila, *Ex-Officio*
- The Honorable Michael W. Brubaker, *Ex-Officio*
- The Honorable Michael Carroll, *Ex-Officio*
- Mr. George Greig, *Ex-Officio*
- Mr. Michael Hanna, *Ex-Officio*
- Mr. Christian Herr, *Ex-Officio*
- Ms. Betsy Huber, *Ex-Officio*
- Dr. Everette James, *Ex-Officio*
- The Honorable John A. Maher, *Ex-Officio*
- Thomas W. Munkittrick, DVM, *Ex-Officio*
- The Honorable Michael O'Pake, *Ex-Officio*
- The Honorable Joseph A. Petrarca, *Ex-Officio*
- Mr. Ken Raney, *Ex-Officio*
- Mr. Russell Redding, *Ex-Officio*
- Mr. Louis R. Sallie, *Ex-Officio*
- The Honorable Judith L. Schwank, *Ex-Officio*
- The Honorable Elder A. Vogel, Jr., *Ex-Officio*
- Mr. John Vogel, *Ex-Officio*
- Mr. Roy W. Wilt, *Ex-Officio*

FY11 Total Giving to Penn Vet by Area
\$9,270,373



- \$1,209,082 Annual Giving
- \$689,076 Private Gifts for Research
- \$2,469,863 Research Grants
- \$505,411 Capital
- \$708,647 Student Support
- \$3,388,094 Bequests
- \$300,200 Professorships

FY11 Annual Fund Gifts by Constituents
\$1,209,082



- \$296,927 Vet Alumni
- \$20,764 Vet Parents
- \$68,225 Penn Alumni
- \$348,547 Friends
- \$155,162 Corporations
- \$277,766 Foundations
- \$41,693 Associations

New Capital Gifts & Pledges

INVESTING IN CARE & RESEARCH

\$3,175,946

Physical space and state-of-the-art technology is a vital priority of any research institution. Top-tier hospitals equipped with the latest in technology enable students to receive a first-class education, while also providing patient care that is unparalleled.

- Allerton Foundation, Inc.
- Ms. Jean Bartsch
- Mrs. Kathy Biedenbach
- Mr. Steve Biedenbach
- Darryl N. Biery, DVM **
- Mrs. Martha J. Biery

- Brandywine Valley Driving Club
- Ms. Nancy Brougher
- The W. Dale Brougher Foundation
- Ms. Jeri L. Callaghan
- Ross T. Chambers
- Mr. & Mrs. Michael Clothier
- Estate of Dorothy P. Cole
- Mrs. Beverly Conti *
- Pierre A. Conti, VMD *
- Ms. Mary Copelin
- Ms. Krissi M. Davis
- Dr. Steven D. Douglas
- Ms. Margaret Hamilton Duprey *
- The late Viola Ellison
- Mrs. Beverly Ensor *
- Equine Medical & Surgical Associates
- The late William Evans, Jr.
- Evening In Old Saratoga, Inc.
- Ms. Geraldine M. Flatley
- Dr. Mary Ann Forcica

* Continuous giving for 10+ years to Penn Vet | ** Penn Vet Faculty and Staff
This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

The Gardner Foundation, Inc.
 Ms. Laura A. Geneve
 Mrs. Frances M. Giuliani
 Raymond W. Giuliani, VMD
 Mark M. Glickman, Esquire
 The late Suzanne Grose
 Hamilton Family Foundation *
 Elaine P. Hammel, VMD **
 The late Florence Hanford
 Larry and Anna B. Harris Foundation
 Ms. Kathy Hill
 Ms. Andrea R. Hilliard
 Mrs. Carol G. Huff
 Mr. Lawrence A. Huff
 Mrs. Gretchen S. Jackson *
 Mr. M. Roy Jackson, Jr. *
 Mrs. Maria Kern
 Mr. David D. Langfitt
 Mrs. Margaret B. Langfitt
 The Margaret & David
 Langfitt Foundation
 The late John I. Leonard
 Longenecker's Hatchery, Inc.
 Alan D. Longman, Esquire
 Ms. Linda Mahan
 Ms. Jacqueline B. Mars
 Jacqueline Badger Mars 2009
 Charitable Lead Trust
 Leigh A. Marsh, VMD *
 Mr. Brian Mitchell
 Mrs. Elizabeth R. Moran *
 Susan D. Morgan, VMD
 Dr. Sierra A. Moulton
 Ms. Pamela E. Mross
 Estate of Anna Oschwald *
 Penn AG Industries Association
 Mr. Robert W. Peters
 Ms. Andrea K. Rainey
 Ms. Jennifer Rakhmanine
 Mr. Mikhail Rakhmanine
 The late Neal C. Ralston
 Mr. Francis H. Rasmus, Jr.
 Joan Regan, VMD *
 Frank K. Reilly, DVM
 Mr. Augustine S. Rhodes
 Mrs. Cynthia K. Rhodes
 Ms. Paula C. Rhodes
 Augustine Rhodes Living Trust
 Estate of A. E. Rine
 Mr. D. L. Robertson

Mrs. Gloria Zurkow Rubin
 The late Mary Ann Samuel
 Ms. Christa B. Schmidt
 The late Edna Scott
 Mr. Alexander Sharpe III
 Mrs. Susan C. Sharpe
 Mr. Adam G. Silfen
 David and Lyn Silfen Foundation
 Ms. Regina L. Smith
 Ms. Lise J. Spiegel Wilks
 Ms. Sandra Switzer
 Thoroughbred Charities of America
 Wenger's Feed Mill, Inc.
 The late Peter W. Wetherill
 Mr. & Mrs. Lawrence E. Wicks
 Mr. Jeffrey Wilks
 Estate of Mabel T. Zieger
 Anonymous
 Anonymous

FRONTIERS OF RESEARCH \$3,176,262

Penn Vet consistently strives to expand research dollars because it allows faculty and staff to find new methods of treating devastating diseases and illnesses which afflict both animals and humans. Additional resources will enable Penn Vet to play a leading role in introducing novel strategies and treatments, such as stem cell therapies, in animals long before they can be applied to humans.

Mrs. Catherine George Adler
 Mr. Frederick R. Adler
 Ms. Peggie L. Aldrete
 Alpaca Research Foundation
 American Association for
 Laboratory Animal Science
 American Bouvier Des Flandres Club
 American College of Lab
 Animal Medicine
 American College of
 Veterinary Dermatology
 American College of
 Veterinary Surgeons
 American Kennel Club Canine
 Health Foundation
 American Kennel Club, Inc.
 American Research &

Management Co.
 Dr. Christopher Anastasiou
 Mr. & Mrs. James L. Anderson
 Ms. Elizabeth D. Armstrong
 Ms. Stacey Bailey
 Bailywick Briards, Ltd.
 Marilyn F. Balmer, VMD *
 Bernice Barbour Foundation, Inc.
 Beech Fund
 Ms. Jacqueline Binstead
 Malcolm Borthwick, Jr., VMD
 Mrs. Mary M. Borthwick
 Mrs. E. C. Boston
 Dr. Raymond C. Boston
 Mrs. Marlene Brody
 Mr. Alex Brown
 Richard T. Brown, VMD *
 Tara D. Butler, MD
 William B. Butz Memorial Fund, Inc.
 Canine Cancer Research USA
 Ms. K. Carol Carlson *
 Ms. Louise Cassino
 Mr. Richard Cassino
 Centre Equine Practice
 Mrs. Penny Chenery
 Ms. Lolly Clarke
 Mr. Anthony C. Corcoran
 Peter H. Craig, VMD
 Crohn's & Colitis Foundation
 of America, Inc.
 Betsy L. Dayrell-Hart, VMD *
 Delaware County Kennel Club
 Mrs. Cheryl Dexter
 Mr. James B. Dexter
 Ms. Margaret Hamilton Duprey *
 Ms. Elizabeth M. Durkin
 Eastern Ontario SCWT Club
 Elanco Animal Health
 The late William Entenmann III
 Mr. David Epstein
 Mrs. Libby Epstein
 Richard H. Epstein, MD
 Mrs. Sandra Price Epstein
 Ms. Susan Feeney
 Dr. C. Richard Filson
 Ms. Kimberly D. Fish
 Mr. Ethan C. Flint
 Found Animals Foundation, Inc.
 The Foundation Fighting Blindness
 Stuart A. Fox, VMD
 Ms. Kindy French *
 Dr. Emily Friedman
 Friedman-Townsend
 Family Foundation
 Ms. Maria T. Galeno
 Ms. Irene Gaynor
 Ms. Melissa S. Goldberg
 Ms. Audrey I. Goldstein
 Stanley & Audrey Goldstein Fund
 Ms. Lauren E. Gordon
 Estate of William F. Gottfried
 Grayson-Jockey Club Research
 Foundation, Inc.

Mr. John C. Halloran
 Mrs. Susan Halloran
 Hamilton Family Foundation *
 Hannibal and Nina Cancer
 Foundation
 William D. Hardy, Jr., VMD
 Mr. Clyde W. Hart
 Ms. Alison J. Hartley
 Dorothy Russell Havemeyer
 Foundation



Hedy Hekler
 Hekler Family Donor Advised Fund
 Dr. Paula S. Henthorn **
 Mrs. Cindy L. Hespe
 Mr. David C. Hespe
 Gail W. Heyer, VMD
 Mr. John W. Heyer
 Mr. Milton P. Higgins, III
 Mr. Robert W. Huffman
 Huntingdon Valley Kennel Club
 International Food Policy
 Research Institute
 Iron Spring Farm
 Mrs. Gretchen S. Jackson *
 Mr. M. Roy Jackson, Jr. *
 Ms. Annie Jacobs
 The James Foundation, Inc. *
 Jane Heart, LLC
 Mr. Steve Katz
 Frederick Klein Trust *
 Dr. & Mrs. Robert Knapp
 Ms. Marsha A. Knicley
 Mrs. Miryam Knutson
 Mr. Robert B. Knutson
 Mr. Dale Kuhn
 Mrs. Linda Kuhn

“It’s easy to see why I trust PennVet so much – being mom to cats with such serious, life-threatening medical conditions, only the best specialists are qualified to treat them. The extra years of life that Penn has provided my babies is priceless and for that, I’ll always be so grateful.”

— Sue Gabriel, *Ryan Hospital client*

Laurie J. Landeau,VMD *
 Laurel Highlands Kennel Association
 The Leukemia & Lymphoma Society, Inc.
 Levy Hermanos Foundation, Inc.
 Leon Lowenstein Foundation, Inc.
 Lupus Foundation of America, Inc.
 Dr. Jane A. Madden
 Madison Trust *
 Mrs. Mary Alice D. Malone *
 Ms. Miranda Markart
 Ms. Peggy Matzie
 Dr. Robert Joseph Maze *
 E. Scott McAllister,VMD
 John D. McCullough,VMD
 Ms. Colleen Mejia
 Mrs. Anne F. Mickelson
 Mr. David M. Mickelson
 Modern Eye at Chriseyes, Inc.
 Mr. and Mrs. Thomas Mooney
 Mr. Robert C. A. Moore III
 Morris Animal Foundation
 Muscular Dystrophy Association
 National Veterinary Laboratory, Inc.
 Craig H. Neilsen Foundation
 Ms. Alice E. Nordwall
 Mrs. Bonnie S. O'Neil
 Mr. John E. O'Neil
 Paul G. Orsini, DVM **
 Osteosynthesis & Trauma Care Foundation
 Ara Parseghian Medical Research
 PA Thoroughbred Horsemen's Association
 Pennsylvania Harness Horsemen's Association
 Pennsylvania Horsemen's Benevolent and Protective Association
 Walter L. Pepperman II, Esquire
 Pine Tree Trust *
 Mr. Richard G. Placey *
 Portuguese Water Dog Foundation, Inc.
 Potomac Valley Bernese Mountain Dog Club
 Miss Susan J. Puleo
 Dr. Linda Gerber Quest
 Ms. Kate Quigley
 Kathryn M. Quigley Fund
 Racing Medication & Testing Consortium
 Ms. Andrea K. Rainey
 Mr. Francis H. Rasmus, Jr.
 Ms. Brenda Redilla
 Ms. Mary Remondini
 Mrs. Sharon E. Rhoades
 Ms. Lourdes Rivera
 Roemer Foundation
 William S. Rokus, VMD
 Richard M. Rossbach Memorial Fund
 Mr. and Mrs. Jerold E. Rothkoff
 Mrs. Denise A. Rotko *

Michael J. Rotko, Esquire *
 Rotko Family Foundation
 Mr. Joseph Schimberg
 Mrs. Lynda Schimberg
 Mr. Samuel M. Simkins
 Suzanne J. Smith, VMD *
 Mrs. Cynthia Stebbins
 Barbara K. Stewart, VMD *
 Ms. Nancy Sullivan *
 Ms. Carol E. Swanson *
 Swedish Vallhund Club of America
 Mrs. Anne F. Thorington *
 Mr. Michael Townsend
 Dr. Cornelius Uboh
 United States Equestrian Federation, Inc.
 Mr. Neil Van Sloun
 Mrs. Sylvia Van Sloun
 Van Sloun Foundation
 Waltham Centre for Pet Nutrition
 Mr. George A. Warwick
 Mrs. Paula A. Warwick
 George A. or Paula Warwick Rev. Trust
 Mr. Jeffrey S. Weiner
 Winnebago Labrador Retriever Club
 Woodmere Foundation
 Mrs. Angela Bohl Wurster
 Mr. William G. Wurster
 Ms. Jennifer Young-Johnson
 Dr. Vincent Zaccheo

SUPPORTING STUDENTS
\$1,191,340

Allaying the national shortage of veterinarians poses a special challenge at Penn, where, as a private institution, tuition is relatively high. Graduates now leave the School of Veterinary Medicine with an average debt of \$160,000. Relieving the burden will allow students to pursue post-doctoral studeis and careers in fields where there are critical shortages. Scholarship support also allows Penn Vet to recruit the best and brightest students.

American Association of Equine Practitioners Foundation
 Dr. Arvind U. Amin
 Armour Lewis Family Foundation
 Mr. Joseph Barone
 Joel R. Bigger, VMD *
 Black Horse Pike Animal Hospital
 Boehringer Ingelheim Vetmedica, Inc.
 Ms. Cornelia Brown
 Richard T. Brown, VMD *
 Bucks County Kennel Club
 Ch Forfox Liz Clairborn Cdx
 Ms. Lynn Coakley
 Ms. Christine Connelly *
 Connely Foundation *
 The late Harriet A. Doolittle
 Adolph Eichhorn Memorial Trust *

George F. & Linda F. Fisher Charitable Fund
 Lynn S. Frankhouser-Keller, VMD *
 Jerry D. Frantz, VMD *
 Mrs. Randi Gnesin
 Mr. Ross Gnesin
 Katherine Masek Hammerman, VMD, PhD
 Mr. Vernon W. Hill II
 Mrs. Shirley Hill
 Hill Family Foundation
 Mrs. Gretchen S. Jackson *
 Mr. M. Roy Jackson, Jr. *
 Estate of David G. Jones *
 Charlotte Miller Keenan, VMD *
 Mr. Kevin Keenan *
 Mr. James LaBar
 Mrs. Kathryn LaBar
 Ms. Debra E. Lembeck
 Richard D. Marchetti, VMD
 C. W. McIlwraith, PhD
 New Jersey Federation of Dog Clubs, Inc.
 New York Farmers Fund
 Pauline O'Rosky Fund *
 Pauline O'Rosky Trust
 Ms. Dana M. Polk
 Mark J. Pykett, VMD PhD
 Pykett Family Charitable Fund
 Mr. & Mrs. C. Thomas Reid
 The late Charles F. Reid

Ms. Janet H. Reid
 Mr. Todd R. Reid
 Estate of A. E. Rine
 Elsie & Arthur Roebuck Fund *
 Mrs. Diana Roy
 Mr. Raymond G. Roy
 Mr. Howard Sammons
 Estate of Clarence D. Senseman *
 Donald B. Shatto, VMD
 Barbara K. Stewart, VMD *
 William K. Stewart, Sr. Foundation *
 Henry B. Warren, VMD
 Mr. Walter C. Wells *
 Kathy and Jerry Wood Foundation

LEADING THE PROFESSION
\$496,452

A hallmark of Penn Vet, our faculty members continue to be the best in veterinary education and are leaders in their fields. To recruit and retain outstanding faculty, Penn Vet must offer endowed chairs and professorships in such fields as oncology, equine stem cell research, pathobiology and infectious diseases.

Estate of David G. Jones *
 Laurie J. Landeau, VMD *
 Pine Tree Trust *
 Estate of Harriet E. Woodward *



* Continuous giving for 10+ years to Penn Vet | ** Penn Vet Faculty and Staff
 This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

Annual Fund Gifts & Pledges

Fiscal year 2011 marked a record-breaking year for Penn Vet's Annual Fund with \$1.2 million dollars in contributions from alumni, friends, corporations, foundations and organizations. The generosity of thousands of loyal donors allows Penn Vet to maintain its position among the best veterinary schools in the world. We are grateful to these benefactors who believe in and support our work in healing, teaching and research that benefits animals and humans alike.

BENJAMIN RUSH SOCIETY \$15,000 AND ABOVE

Mr. John Aglialoro
Ms. Elizabeth Atterbury
Krista Lake Buerger
Mr. Reid Buerger
Buerger Family Foundation
Ms. Joan Carter
Ms. Sandra Epstein
Mr. Jay S. Fishman
Mrs. Randy Chapman Fishman
Fishman Family Foundation
Elber C. Gillespie Trust *
Mr. Andrew R. Heyer
Mrs. Mindy Halikman Heyer
Andrew R. Heyer & Mindy Heyer Foundation
Clara L.D. Jeffery UW
Charitable Residuary Trust
Mrs. Ellen Moelis *
Herbert I. Moelis, Esquire *
Mrs. Gail Petty Riepe
Mr. James S. Riepe
James S. and Gail P. Riepe
Charitable Foundation
RME Fund
Mr. Gerald B. Shreiber
Gerald B. Shreiber Foundation
Mr. Adam G. Silfen
David and Lyn Silfen Foundation
Thoroughbred Charities of America

Mr. Martin E. Winter
Mrs. Pamela Winter

JOSEPHINE DEUBLER SOCIETY \$14,999-\$10,000

Mrs. Catherine George Adler
Mr. Frederick R. Adler
Mr. Jack Billhardt *
Mrs. Patricia L. Billhardt *
Bernard F. Brennan, VMD *
Mrs. Susan Pilch Friedman
Richard Friedman Family Foundation
Mr. Brian Hard
Mrs. Janice M. Hard
Mr. Robert W. Huffman
lthan Foundation
Laurie J. Landeau, VMD *
Laurie Landeau Foundation, LLC *
Mrs. Diane v.S. Levy
Mr. Robert M. Levy
Robert M. Levy Family Foundation
Mrs. Louise Riggio
Riggio Foundation
Mrs. Cionna Rosenthal *
Mr. Jerry Rosenthal *
Rosenthal Fund for the Animals
Mr. Mark E. Rubenstein
Mrs. Robin Rubenstein
Mrs. Lynne Lichtenstein Tarnopol
Tarnopol Family Foundation, Inc.

WILLIAM B. BOUCHER SOCIETY \$9,999-\$5,000

Animal Critical Care &
Specialty Group, Inc.
Animal Health Care Associates, LTD
Steven W. Atwood, VMD, MD
Ayrshire Farm
Ralph L. Brinster, VMD, PhD * **
Carla Chieffo, VMD, PhD
Ms. Christine Connelly *
Connelly Foundation *
Mr. Douglas Donahue, Jr.
Mrs. Susan Donahue
Digger & Susan Donahue
Family Fund
Mr. & Mrs. Thomas G. Downs

Penn Vet is extremely grateful to all our annual fund donors. Unrestricted annual gifts to the University of Pennsylvania's School of Veterinary Medicine have a tremendous impact on the mission of the School and its two world-renowned veterinary hospitals.

Andrew H. Elser, VMD *
Susan G. Emeigh Hart, VMD, PhD
Mr. Wayne E. Ferguson
Mr. Anthony N. Garvan, Jr. *
The late Dolores H. Gluck
Mrs. Helen K. Groves *
Mr. W. J. Hart
Dr. Elisabeth A. Hasslacher
Joan C. Hendricks, VMD, PhD * **
Mrs. Susan D. Hufford
The Honorable Patricia Jenkins
Mr. Howard Kaye
Charles W. Koenig, VMD *
Koenig Charitable Fund *
Mrs. Sandra J. Koenig *
A. Gary Lavin, VMD *
Ms. Sandy Lerner
Mrs. Jane MacElree
Jennifer A. Morris, VMD
Mrs. Dianne K. Ostrich
Sherbyn W. Ostrich, VMD
Philadelphia Foundation
Charles W. Raker, VMD * **
Kenton D. Rexford, VMD *
Rosalind Schwebel Revocable Trust
Mrs. Alison Shoemaker
Mr. John P. Shoemaker
Lindsay S. Shreiber, VMD
Mr. Mace Siegel
William S. Stockman, VMD
Mr. W. B. Dixon Stroud, Jr.
Valley Veterinary Hospital PC
Veterinary Emergency Clinic Inc.
Marilyn B. Weber, VMD *
Mr. Gary M. Wexler
Mrs. Nina S. Wexler
Willowdale Steeplechase Inc.
George P. Wilson III, VMD

RUSH SHIPPEN HUIDEKOPER SOCIETY \$4,999-\$2,500

David J. Abdinoor, VMD *
Linda E. Aiken, VMD
American Kennel Club, Inc.
Mrs. Kathy Biedenbach
Mr. Steve Biedenbach
Eric M. Bregman, VMD
Jack Bregman, VMD
Mr. Adrian A. Castelli
Centre Equine Practice
Mrs. Amy S. Coogan *
Kevin P. Coogan, VMD *
Anthony J. De Carlo, VMD
Ralph C. Eagle, Jr., MD *
James F. Geer, VMD *
Laurie Giannella-Serfilippi, VMD *

Alan B. Grosbach, MD
Ms. Myra Grosbach
Ms. Gail M. Habecker *
Perry L. Habecker, VMD * **
James S. Harper, VMD *
Mrs. Marie G. Herman
Peter H. Herman, VMD *
D. Ray Hostetter, VMD
Mrs. Jane Hostetter
Kentmere Veterinary Hospital
David S. Kramer, VMD
Laurels Combined Driving Event
John W. Lee, Jr., DVM
Mr. John A. Leiper, Jr. *
Mrs. Susan S. Leiper *
Richard M. Levine, VMD
Ms. Mary G. Love **
Ann Wayne Lucas, VMD *
John B. Madison, VMD
Ms. Linda Mahan
E. Scott McAllister, VMD
Mrs. Kathleen S. Menaker *
Mr. Ronald H. Menaker *
Dorothy J. Miller, VMD
Ronald R. Minor, VMD, PhD
Mrs. Theresa Minor
Patricia A. Morgan, VMD *
Andrew P. Nebzydowski, VMD *
Joseph A. Nebzydowski, VMD *
Mrs. Kerry J. Nebzydowski *
Northeastern Pennsylvania
Veterinary Medical
Association
Noto Family Foundation
Mr. James F. O'Rourke III
Dr. Cynthia M. Otto **
Pennsylvania Veterinary
Medical Association
Mrs. Catharine B. Peterson
Frederick B. Peterson, VMD
Philadelphia Animal Hospital
Providence Veterinary Hospital
Quarryside Animal Hospital
Francine Koplín Rattner, VMD *
Lawrence A. Rebbecki, Jr., VMD *
Red Bank Veterinary Hospital, PC
Mrs. Mary G. Rockefeller
Gary Edward Rothman, VMD *
James H. Rush, VMD *
H. James Schroll, VMD
Jane Sparacino Schroll, VMD
Mr. Brent N. Senseny *
Mead F. Shaffer, Jr., VMD
Max L. Sponseller, VMD
Amos W. Stults, Jr., VMD
Unionville Equine Associates PC
Wallenpaupack Veterinary Clinic

“Because I received a full four-year scholarship to the School of Veterinary Medicine, I wanted to give back to today's students.”

Ray and his wife, Jane, created the Hostetter Family Endowed Opportunity Scholarship in 2008 to provide scholarship and mentoring support to students in perpetuity. Ray has also supported the Hopewell Veterinary Group Opportunity Scholarship with partner Amos Stults, Jr. V'73 since 2002.

— Ray, V'69 and Jane Hostetter

TRIBUTEDONORS



Washington Square Animal Hospital
Mrs. Martha Good Wenger *
Melvyn G. Wenger, VMD *
Ms. Betty E. Williford
George F. Zimmerman, VMD *
Ms. Patricia Zimmerman *

**MARK W. ALLAM
SOCIETY FOUNDER
\$2,499-\$1,000**

Donald A. Abt, VMD *
Mr. & Mrs. E. M. Ackley
Adikes Family Foundation
Ms. Patricia Adikes-Hill
Ms. Elsie L. Adler
The Allen Family Charitable Fund
Mrs. Sonya Alwine
Animal Clinic At Thorndale
Ark Animal Hospital
Robert J. Ashman, VMD
Mrs. Wilhemina M. Austin
Elizabeth Soper Azary, VMD *
Peter F. Azary, VMD *
Back Mountain Kennel Club, Inc.
Ms. Ruth Bedford
Arthur A. Bickford, VMD
Blandford Animal Hospital
John C. Bloom, VMD, PhD
Ms. Katherine R. Blyth *
Mr. and Mrs. J. M. Bontecou *
Ms. Karen Bossert
Thomas Bowman, DVM
Ms. Catherine Bray
Martin A. Bree, VMD
Mr. Craig R. Carnaroli
Ms. Maureen Calloway Carnevale
Richard A. Carnevale, VMD
Cat Doctor Inc.
Chippens Hill Veterinary Hospital
Mr. Harvey A. Coleman
Allen J. Conti, VMD *
Mrs. Janice Merry Conti *
Ms. Kathleen Crompton
Mr. Andy Davidoff
Mr. Richard Kaye Davis
Carol A. Dolinskas, MD
Mr. and Mrs. Thomas Domencich
Thomas and Nephelè W.
Domencich Foundation
Dravosburg Veterinary Hospital
Mr. & Mrs. Michael S. Dukart
Mrs. Henry E. I. duPont
Mr. Anthony W. Dutrow
Diane Ruth Eigner, VMD
Elizabeth Gordan Ellis, VMD
Mr. Henry R. C. Elser

Mr. P. F. N. Fanning
Evan A. Feinberg, VMD *
Mrs. Bonnie Feld
Mr. Kenneth J. Feld
Elaine A. Ferrara, VMD
Randall C. Fertelmes, VMD
Mrs. Ruth K. Fertelmes
Ms. Audrey Fisher
George L. Flickinger, Jr., VMD
Mrs. Karen Combs Flickinger
Edgar Mark Fox, VMD
Kathleen M. Friedenber, VMD
Zachary B. Friedenber, MD
Keith W. Gates, VMD
Mrs. Lois F. Gates
Lawrence J. Gerson, VMD
Patricia J. Glennon, VMD
Mr. Barry Goldblatt *
Barry L. Goldblatt Charitable
Annuity Trust *
Leslie A. Goldsmith, VMD *
Tamar B. Goldstein, VMD
Greenwich Animal Hospital PC
Joseph H. Groveman, VMD *
Douglas A. Hambright, VMD
John F. Hampson, VMD *
Mrs. Roberta B. Hampson
Mrs. Paula D. Haughey
Mr. Thomas M. Haughey
Kim A. Herrman, VMD
Ms. Mary Herzog
Mary Herzog and Andy
Davidoff Fund
Mr. Kerry N. Hitt
Dolores M. Holle, VMD
Ms. Susan K. Hollenstein
Hazel M. Holman, VMD
Ms. Judy L. Hricak
Mr. Anthony Imbesi
Ms. Giovanna Imbesi
Mr. John Imbesi
Mrs. Patricia H. Imbesi
David C. Johnson, VMD *
W. Southard Jones, Jr., VMD
Mrs. Ann Lunger Jones
Ms. Margo L. Jones
J. Ritchie Veterinary Hospital
Joann DiDonato Kazdin
Mr. John E. Keefe
Mr. James Koch
Susan Turnbull Laevey, VMD
Mr. Thomas F. Lantry *
Mrs. Kathleen Rifkin Lantz
Mr. Paul D. Lantz
Mr. Christopher Le Vine
Mrs. Victoria Le Vine

Jay N. Leeb, VMD
Ms. Karen Lien
Dr. Eric H. Linnetz, Jr.
Walter F. Loeb, VMD *
Audrey Love Charitable Foundation
Lums Pond Animal Hospital
Gail Reidler Mackey, VMD *
Madyl Fund
Linda L. Mahan Unitrust
Main Street Veterinary Hospital
Corinne Majeska, VMD
Andrew Major, VMD
Andrew & Gemma Major Giving
Courtney M. Manetti, VMD
Patricia J. Mapps, VMD
Leigh A. Marsh, VMD *
Ms. Anna McWane
Anna McWane Charitable
Foundation
Mark Mendlowitz, VMD
Eddie F. Molesworth, VMD
Ms. Renee M. Moore
A. Harris Mosher, VMD
Nature's Earth Products, Inc.
Nebel Street Animal Hospital
Mr. Leonard A. Nowak
Mrs. Roberta Odell *
John L. O'Donoghue, VMD, PhD *
Mrs. Bonnie K. Olie
Park Veterinary Group Inc.
Patriarch Family Foundation
Deborah S. Patt, VMD *
Ms. Constance Perine-Goldsmith
Gregory H. Peterson, VMD
Petland Village of Eastside
Ms. Jane Piroton
Pleasant Valley Veterinary
Dr. Julie Rabinowitz
Red Lion Veterinary Hospital
Reidler Foundation
Joel M. Reif, VMD *
Victor T. Rendano, Jr., VMD
Mr. Edward M. Resovsky
Linda Rhodes, VMD, PhD
Ms. Schuyler C. Riley
Joan Mary Ritchie, VMD *
Dr. Carolyn Carruth Rizza *
Deborah Smith Roberts, VMD *
Hollenstein Ross Foundation
Mr. Gregg A. Runyen *
Mrs. Terry Runyen *
Ruth Bedford Revocable Trust
Mrs. Karen Rylander-Davis
Farid C. Saleh, VMD *
Ms. Patricia Salmon
Linda Waltz Schaffer, VMD
Dale A. Schilling, VMD
Ms. Cornelia Schlotter *
Linda M. Schoenberg, VMD, PhD *
Mr. Dennis L. Schrader
Mrs. Jamee F. Schrader
Mr. and Mrs. John Seifarth
Mr. Mark Simpson
Mrs. Susan D. Simpson
John D. Sivick, VMD
Stephen A. Smalley, VMD *

Barbara E. Smith, VMD
Mr. Martin T. Sosnoff
Martin & Toni Sosnoff Foundation
Stephen G. Soule, VMD
Ms. Janet Sowiak
Mrs. Bette L. Steinberg *
Sheldon A. Steinberg, VMD * **
Stevenson Village Vet Hospital
Raymond Stock, VMD
Ms. Jeanne M. F. Swartzchild
Raymond W. Sweeney III, VMD * **
Dr. Corinne R. Sweeney **
Beryl Calvin Taylor, VMD
Ms. Sally Thomas
Robert M. Thompson, Jr., VMD *
Ms. Amie D. Thornton *
Mr. & Mrs. Terrence A. Tobias
Kathleen M. Tracy, VMD *
Ms. Kathleen A. Ulman
Jeanne L. Van Nuys-Hitt, VMD
Marylouise A. Visco, VMD
Ms. Carol Elizabeth Ware
Alexandra Wetherill, VMD
Mr. Jerold Wichtel
Mrs. Jill K. Wichtel
Ms. Barbara Williamson
Mr. David A. Wisser
Joan M. Yarnall, VMD *

**MARK W. ALLAM
SOCIETY FELLOW
\$999-\$250**

Ms. Anne Sima Abel
Frank M. Abel, VMD
Mrs. Theresa Aldamlouji
Mr. Zaid Aldamlouji
Bert M. Allen, VMD
Mrs. Josephine J. Aller
Mr. Robert C. Aller
Judith L. Allison, PhD
Ms. Jennifer J. Alvarez
Dr. Christopher Anastasiou
Animal Care Centers
Animal Health Care of Myerstown
Charles C. Arensberg, VMD
James R. Armstrong, VMD *
ASD Fund
Dr. Patricia A. Assan
Mr. Colin Atkins
Ms. Katharine Austin Barnes
Louis C. Bach, VMD
Back Bay Veterinary Clinic
Frederic K. Baff, VMD *
Wesley Baff, VMD
Daniel L. Baker, VMD *
Baker Animal Hospital
Linda McLaughlin Barchet, VMD
Christopher C. Barton, VMD
Barton Heights Veterinary Hospital
Larry R. Bason, VMD *
Joanna M. Bassert, VMD
Bayside Animal Medical Center
Jill Beech, VMD * **
Mark W. Beere, VMD
Mary H. Bell, VMD
Mr. Carmine T. Bello

* Continuous giving for 10+ years to Penn Vet | ** Penn Vet Faculty and Staff

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

Pamela L. Bendock, VMD
 Ken Berg, DVM
 Blayne P. Bergenstock, VMD
 Bethel Veterinary Hospital PC
 Jean Marie Betkowski, VMD
 Nina Ruth Beyer, VMD
 Sharon Birk
 Ms. Eugenia B. Bishop
 Ms. Gladys M. Black
 Mr. Michael G. Blanchard
 Mrs. Nadine Blanchard
 Dr. J. Kent Blasie
 Mrs. Michele Blazer
 Dr. & Mrs. John Blenko
 Julia M. Block Schwartz, VMD *
 Kenneth L. Bollens, Jr., VMD
 Jeffrey A. Booth, VMD
 Mr. Jeff Bowen
 Alexandra F. Bray, VMD
 Mr. James David Bray
 Andrew J. Breslin, VMD
 John E. Brockett, VMD
 Nancy M. Bromberg, VMD *
 Richard W. Brown, Jr., VMD *
 Charles E. Brown, VMD *
 Ms. Barbara Brungess
 Ms. Julia Bruno *
 Mary A. Bryant, VMD
 Bucks County V.E.T.S.
 Martha E. Bugbee, VMD
 Mark B. Burch, DVM
 Ms. Linda G. Burka
 Elizabeth E. Burke, DVM
 Dr. Petra Burke-Ramirez
 John P. Burlein, VMD
 Burnt Mill Veterinary Center
 Mr. Paul J. Calandra
 Mr. Kevin L. Call
 Gregg W. Campbell, VMD *
 Mrs. Marcia W. Campbell
 Mr. Ross L. Campbell
 Mrs. Marilou Cannon
 Mr. Robert E. Cannon
 Doris Adele Cappiello, VMD
 Ms. Christine M. Carey
 Catherine Walleigh Carnevale, VMD
 Mrs. Anna I. Cascio
 Mr. Michael J. Cascio
 Lisa A. Cawley, VMD
 Mrs. Ellen M. Charles
 Ellen M. Charles Rev. Trust
 Ms. Ellen L. Cherry
 Chester County Cat Hospital
 Mr. Jack R. Cimprich
 Ronnie Elkins Cimprich, VMD
 Christine Joan Cioffe, VMD
 Mr. and Mrs. Joseph M. Clarke
 Joshua H. Clay, VMD *
 James M. Clinton, VMD
 Mr. Juan J. Colina de Vivero
 Mr. & Mrs. Steven W. Concannon
 Mrs. Karen L. Conway
 Mr. Stephen J. Conway
 Cynthia C. Coppock, VMD
 Ms. Jeanne Coryell
 Ms. Sharon L. Costa

Mrs. Carolyn R. Cotter
 County Animal Hospital Inc.
 Ms. Cornelia Crawford
 Ms. Elizabeth Crawford
 Dr. Jennifer Cree
 Mrs. Amelita E. Cresswell
 Henry Cresswell, VMD
 Henry L. Croft, Jr., VMD *
 Cross Keys Animal Hospital, LLC
 Croton-on-Hudson Veterinary Clinic
 Crown Clothing Company
 Steven P. Cudia, VMD *
 Mr. Craig Cullen, Jr.
 Mrs. Carolyn C. Cullen
 John M. Cullen, VMD
 Sharon A. Dailey, VMD
 Francis W. Daniel, Jr., VMD
 Mrs. Jill Nearing Daniel
 Dr. Richard L. Davidson
 Mr. Bruce K. Davis
 Ms. Krissi M. Davis
 Patricia A. Day-Lollini, VMD *
 Mr. Thomas C. Deas, Jr.
 Mrs. Stephanie Dechen
 Ms. Rose Marie A. Deffenbach
 Delaware Equine Council
 Edytheann DeMaria, VMD
 Ms. Pamela A. Denison
 Mr. & Mrs. Matthew D. Devine
 Ms. Gladys DiNunzio
 Dr. Wendy L. Dixon
 Mr. William J. Dixon
 Virginia Schaefer Dobozy, VMD
 Christina J. Dolan, VMD
 Lydia L. Donaldson, VMD *
 Leonard N. Donato, VMD
 Ms. Sophie Du Pont
 Mrs. Chantal Dubeck
 Sandra M. Dudek, VMD *
 The Honorable Pierre S. duPont, IV
 Elise Wood duPont, Esquire
 Dutrow Thoroughbred
 Enterprises Inc.
 Mrs. Julie M. Duval
 Eagle Veterinary Clinic
 Ms. Cheryl L. Eberle
 Mr. and Mrs. Norman Edmonson
 Edmonson Family Fund
 Ehrlich Animal Hospital
 Mrs. Jeanne M. Eisele
 Robert J. Eisner, VMD
 Cynthia Nass Eldredge, VMD
 Mr. Steve Elkin
 Mrs. Helen M. Elkins
 William L. Elkins, MD
 Engelberg-Kristy Animal Hospital
 Equine Veterinary Care
 Mr. David K. Erickson
 Ms. Sharon A. Errickson
 Essex County Community
 Foundation
 Paul A. Evans, VMD
 Mrs. Christine E. Facciolo
 Mr. Frank A. Facciolo
 William G. Farrell, VMD
 Ms. Nancy L. Farrish

“I give because of what the School gave me. No matter how small or large the gift is, alumni support has and always will be critical to the success of the Vet School.”

— Don Abt, VMD, Donor

William Philip Feeney, VMD *
 Michele Lea Ferraro, VMD
 Ms. Anne T. Finn
 Ms. Jessica E. Fischer
 Mr. Paul F. Fischer
 Andrew Mark Fitzgerald, VMD
 Fitzgerald Veterinary Hospital
 Dinah E. Flack, VMD
 Barbara J. Flickinger, VMD
 Mr. Donald T. Floyd
 Daniel V. Flynn, VMD
 Virginia Eaton Flynn, VMD
 Patrick Ford, VMD
 Barbara D. Forney, VMD
 Ms. Marilyn Forney
 Dr. Robert C. Forney
 Forney Family Foundation, Inc.
 David H. Fortna, VMD
 Ms. Patricia A. Frey
 Robert M. Frey, VMD
 Frey Family Charitable Fund
 Ms. Susan Gabriel
 Ms. Katharine Gahagan
 Mr. Kenneth Galler
 Paul C. Gambardella, VMD *
 Mrs. Susan C. Gambardella *
 Ms. Deborah M. Gardner *
 William S. Gardner, VMD *
 Jan V. Ginsky, VMD
 Ms. Annette Gittelman
 Alan S. Glassman, VMD
 Joseph C. Glennon, VMD
 John M. Gliatto, VMD
 Edward M. Goglia, VMD
 Mrs. Lois Sommer Goglia
 Ms. Lynda Goldschein
 Sheila M. Gomez, VMD
 Ms. Jayne E. Graham
 Greenfields Veterinary Associates
 Dr. Dana Greenleaf
 Mr. James E. Gregg
 Mr. Don J. Grinevicius
 Stephen L. Gross, VMD **
 Ms. Donna J. Gruber
 Joseph J. Gruber, VMD
 Ms. Judith L. Guise
 Mr. & Mrs. Geoff Halfpenny
 Christopher L. Hallihan, VMD
 Robert C. Hallock, Jr., VMD
 Hamilton Animal Hospital
 Margaret L. Harbison, VMD
 Maureen Hargaden, VMD *
 Lenn R. Harrison, VMD *
 George L. Hartenstein IV, VMD *
 Karen B. Harvey, VMD *
 Ms. Margaret S. Havens
 Dorothy Frances Hayes, VMD
 Ms. Jodi F. Hayes

Mr. & Mrs. Bruce K. M. Henderson
 Mattie J. Hendrick, VMD **
 David R. Hensen, DVM
 Deirdre M. Hensen, VMD *
 Michael J. Herman, VMD *
 Peter D. Herman, VMD *
 Mr. Howard L. Herzog
 Anne R. Hessel, VMD
 HHD Mobile Veterinary Clinic, LLC
 William T. Hill, VMD *
 Hill Street Veterinary Hospital
 Mr. Hugo Hollinger
 Holport Foundation
 Mrs. Theodora Hooton
 William D. Hope, Jr., VMD
 Jeffrey J. Horst, VMD
 Howard C. Hughes, Jr., VMD
 Christopher A. Hunsinger, VMD
 Cynthia Ann Hunt, VMD
 Phillip R. Hunt, VMD
 Mrs. Doreen M. Insabella
 Mr. John Insabella
 Ms. Heather Irons
 Mr. Steven Thomas Irons
 Mr. Ed Isaack
 Susan Irene Jacobson, VMD *
 Mr. Robert S. Jakobi
 Ms. Nancy Jeffries
 Mrs. Constance Z. Jenkins
 David A. Jenkins, Esquire
 Mrs. Beverly B. Jennings
 Mr. Keith S. Jennings
 Peter F. Jezyk, VMD
 Robert F. Jochen, VMD
 Jennifer Felicia Johnson, VMD
 Kate E. Johnson, VMD
 Scott David Johnson, VMD
 Ms. Shelby Johnson
 Victoria Johnson, VMD
 Betty S. Johnston, VMD *
 Jolyn Foundation Inc.
 Mrs. Hope H. Jones
 Michael Josephs, DVM
 Ms. Barbara Karol
 Estate of Gerald J. Katz
 Mrs. Angela M. Kay
 Dr. Thomas Kay
 Dr. Kevin P. Keane
 Keestone Katz Inc.
 Keira J. Mellion VMD, LLC
 Mr. and Mrs. Robert E. Keith
 Mr. Albert Kerrigan *
 Britan A. Kilbourne, VMD *
 Mr. Clayton G. Kilrain
 Mrs. Sharon M. Kilrain
 Kinzua Veterinary Clinic
 Kathryn Kirstein, VMD
 Frank A. Klimatas, VMD

* Continuous giving for 10+ years to Penn Vet | ** Penn Vet Faculty and Staff

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTEDONORS

Richard R. Knavel, VMD
 Charles D. Knecht, VMD
 Ms. Diane D. Knepper
 Mr. Fred L. Knight
 Seth A. Koch, VMD
 Harold Kopp, VMD
 Cynthia J. Kosacz, VMD
 Michael I. Kotlikoff, VMD
 John W. Kreider, VMD *
 Charles E. Kresge, VMD
 John T. Kristy, VMD *
 Paul D. Kutish, VMD
 Sharon P. Lachette, VMD
 Elmer F. Laffey, VMD *
 Ms. Anne P. Laporte
 Jean M. Lasser, VMD
 Mr. and Mrs. Joseph R. Lasser
 Joseph R. & Ruth P. Lasser
 Phil Foundation
 Mrs. Marsha Levin
 Bernard G. Levine, VMD
 Tullia Lindsten, MD, PhD
 Ms. Barbara Heyman Lorber
 William Ralph Lowe III, VMD
 Donald K. Lowe, VMD *
 Lower Allen Veterinary Clinic
 Edgar L. Loy, VMD
 Loyalhanna Veterinary Clinic
 William F. Lucker, Jr., VMD *
 Ms. Mary Alice Lucot
 Mr. and Mrs. Kenneth N. Luongo
 Lutherville Animal Hospital, Inc.
 Matthew P. Mackay-Smith DVM
 Susan A. MacKenzie, VMD *
 Larry and Barbara Magid
 Maine Coast Veterinary Hospital
 Donald A. Marcus, VMD
 Amy R. Marks, VMD
 Mr. Brian C. Marks
 Ms. Margaret S. Marsh
 Dr. Edward W. Marshall III
 Mrs. Margaret T. Martinez
 Mr. Oscar R. Martinez
 Mr. & Mrs. Francis Mashett
 Deborah Masso, DVM
 Ms. Susan Master
 Christopher L. McCawley, VMD
 Susan G. McCawley, VMD
 Carolyn M. McDaniel, VMD
 Ms. Catherine McDonnell
 Mrs. Clara Stevenson McGonigal *
 Mira L. McGregor, VMD
 McGregor Bovine Veterinary
 Services, Inc.
 Mr. Thomas McKenna
 Mr. & Mrs. Tom McKenna
 Ms. Maureen P. McKew
 Wendy McIlroy, VMD
 Mr. James A. McMillan *
 Ms. Judith K. McMillan *
 James M. McNamara, Jr., VMD
 Ms. Mary Louis Meinholz
 Richard Scott Meirs, VMD *
 Keira J. Mellion, VMD
 Eileen Louise Mera, VMD

Meriden Wallingford
 Veterinary Associates
 Ms. Della J. Micah
 Adm. John Miksa
 Adam D. Miller, VMD
 Mrs. Marian Mills
 Mrs. Joanna Milstein
 Edward M. Mimmagh, VMD
 Mrs. Margaret M. Mimmagh
 Jaime F. Modiano, VMD
 Ms. Maryjeannette J. Monihan *
 Kathleen D. Moody, VMD
 Sara Ann T. Moran, VMD
 Ms. Andrea Morgan
 Mr. John A. Morgan
 Richard V. Morgera, VMD
 Mrs. Sharon Morgera
 Mr. Frank J. Morgis
 Mrs. Lois W. Morgis *
 Morrissey Family Foundation
 Michael K. Moss, VMD *
 Ms. Gina B. Muss
 Mr. Irvin S. Naylor
 Cynthia A. Neibert, VMD
 Mr. Lathrop B. Nelson, Jr.
 Kathryn H. Nepote, VMD
 Lavonne R. Newman, VMD
 Mr. Richard W. Newpher
 Mr. & Mrs. Michael Ney
 Richard A. Nicklas, MD
 Paul H. Nicolaysen, VMD
 Robert A. Nizlek, VMD
 Mr. Joseph Norris
 North Boros Veterinary Hospital
 Michael George Nosko, VMD
 William A. Nusser, VMD
 Nadine Oakley, VMD
 Mr. and Mrs. Robert O'Brien
 Patricia A. O'Handley, VMD
 Dr. Salvatore A. Orsini *
 Sean C. Ott, VMD
 Mr. & Mrs. George R. Overhiser
 Mrs. Janet E. Palmer *
 Jeffrey D. Palmer, VMD
 Lee Anne M. Palmer, VMD
 Scott E. Palmer, VMD *
 Ms. Vivian Palmer
 Patt Veterinary Hospital Ltd.
 Paumanok Veterinary Hospital
 Mr. Joseph W. Pedron
 Sally A. Pepper, VMD
 Perkiomen Animal Hospital
 Pets Aloud Mobile Vet Services
 Ms. Elizabeth L. Peyton
 Mr. Theodore S. Peyton
 Gerald E. Pietsch, VMD *
 Plumtrees Animal Hospital
 Scott A. Polo, VMD
 Professional Horsemen's Association
 Prospect Ridge Veterinary Hospital
 Dominick A. Pulice, VMD
 John E. Quatroche, VMD
 Corinne S. Quinn
 Gary J. Quinn, VMD
 Radnor Veterinary Hospital
 Joan Regan, VMD *

Ms. Patricia A. Reid
 Mrs. Sharon E. Rhoades
 Miss Mary B. Rice
 Sara F. Rice, VMD
 Dr. Dean W. Richardson **
 Dr. Laura Richardson
 Ms. Lori A. Rickard
 Mr. H. Paul Ritchie
 Ms. Grace E. Ritzenberg
 Mr. and Mrs. Donald Ritzenthaler
 Ms. Jeannette E. Roach
 Charlotte L. Robson, DVM
 Mr. Mark Rochkind
 Mrs. Patricia W. Rochkind
 Rockhill Veterinary Associates
 Dr. and Mrs. Donald J. Rosato
 Mrs. Corinne Roxby
 Mr. Roger E. Rozsas
 Mr. Paul Rucci
 Ms. Elaine M. Rymysza
 Irving D. Sackett, Jr., VMD *
 Vincent J. Salandria, Esquire
 Lawrence W. Samples, VMD
 Ms. Linda K. Schleifer
 Margot Beth Schwag, VMD
 Dr. Phillip Andrew Scott **
 Christopher N. Scotti, VMD
 Michelle C. Scotti, VMD
 Roger F. Sembrat, VMD
 Mr. & Mrs. Keith Seritella
 Mrs. Donna Seybert
 Mr. Ira Sherman
 Thomas W. Shoemaker, VMD *
 John C. Simms, VMD
 Albert Singer, VMD
 Frank E. Skacel, Jr., VMD *
 Kevin C. Skinner, VMD
 Ms. Joy L. Slater
 SMF Foundation/JM, Inc.
 Bruce Frederic Smith, VMD, PhD *
 Dr. Gary Smith
 Norman E. Smith, VMD
 Sports Medicine Associates
 of Chester County
 Mark E. Stair, VMD
 Ronald J. Stas, VMD
 Larry L. Stefanick, VMD *
 Eugene P. Steffey, VMD
 Mr. Miles W. Stein
 Brenda Lewis Stewart, VMD *
 James V. Stewart, VMD *
 Mrs. Mary McMahon Stewart *
 Robert W. Stewart, VMD *
 Ms. Tawn J. Stokes
 Stoney Creek Veterinary Hospital
 Ms. Kristen G. Stroehmann
 Sun Gard Higher Education
 Thomas A. Sutch, VMD
 Mrs. Nancy T. Swayne *
 Ms. Victoria Swinson
 Mrs. Elizabeth S. Sykes
 Greg P. Sykes, VMD *
 Sherry Lee Talowsky, VMD
 Eddie L. Tamm, VMD
 Henry J. Te Velde, DVM
 Gregory M. Thibodeau, VMD

James O. Thomas, VMD *
 Craig B. Thompson, MD
 Mrs. Eve Lloyd Thompson
 Mr. Renny E. Thoms
 Thoreau Veterinary Hospital
 Mrs. Daphne A. Townsend
 Mrs. Anita L. Ulishney
 University Drive Veterinary Hospital
 Karen L. Usselman, VMD
 Valley Green Veterinary Hospital
 Max A. Van Buskirk, Jr., VMD
 Mrs. Mary Jane W. Van Buskirk
 Mary B. Van Kooy, VMD
 Thomas J. Van Winkle, VMD * **
 George D. Vernimb, VMD *
 Mrs. Ruth Vernimb
 Veterinary Medical Center PC
 Veterinary Ophthalmology Services
 Veterinary Specialties
 Referral Center
 Ms. Mary Ann Vierheilg
 Joseph R. Viola, Esquire
 Mr. and Mrs. Herman K. Voellm
 Kenneth W. Volk, Jr., VMD
 Margarita Vazquez Volk, VMD
 Professor Stella Volpe
 Ms. Melissa von Stade **
 Edwin A. Wagner, VMD
 Cuyler Harriman Walker, Esquire
 Mr. Karl T. Walli
 Walmoore Holsteins Inc.
 Walnridge Equine Clinic PC
 Willi K. E. Weichelt, VMD
 Ms. Patti Weiner
 Robert J. Weiner, VMD
 Steven E. Weisbrode, VMD *
 Mr. and Mrs. Earl D. Weldin
 Amy J. Wenger, VMD *
 Jeremy J. Wentz, VMD
 West Chester Veterinary
 Medical Center
 Mr. John P. White
 White Haven Veterinary Hospital
 Ms. Ann C. Wickliffe
 John C. Widenmeyer, VMD
 Laurel Wiegand, MD
 Arthur H. Wilcox, VMD *
 Willow Run Veterinary Clinic, Inc.
 Franklin K. Wills, VMD *
 Mr. and Mrs. G. F. Wintersteen
 Arthur T. Wirtz, Jr., VMD
 Sharon K. Wirtz, VMD
 Woburn Animal Hospital
 Charles Corbit Wolfe, VMD *
 S. J. Woolwich Holzman, VMD
 Wyoming Valley Veterinary
 Hospital, Ltd.
 Youngsville Veterinary Clinic
 Mr. Arnold Zacharias
 Mrs. Ansley B. Zehnder
 Mr. Jeffrey S. Zehnder
 Curtis A. Zillhardt, VMD *
 Sarah Zimmerman, VMD
 Beth A. Zmijewski, VMD *
 Mrs. Denice Zucca
 Mr. Thomas Zucca

* Continuous giving for 10+ years to Penn Vet | ** Penn Vet Faculty and Staff

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

Alumni Giving

1930-1939

V*38

William A. Nusser, VMD

1940-1949

V*42

David K. Detweiler, VMD

Charles W. Raker, VMD

V*43

Joseph H. Groveman, VMD

John D. McCullough, VMD

V*44

Sheldon S. Farber, VMD

V*45

Richard W. Brown, Jr., VMD

V*46

Bernard F. Brennan, VMD

Eddie L. Tamm, VMD

V*47

Martin A. Bree, VMD

V*48

Irving D. Sackett, Jr., VMD

1950- 1959

V*50

Thomas W. Shoemaker, VMD

Franklin K. Wills, VMD

V*52

John E. Quatroche, VMD

V*53

Stuart A. Fox, VMD

Edgar L. Loy, VMD

Albert Singer, VMD

V*55

Peter H. Craig, VMD

Henry Cresswell, VMD

Keith W. Gates, VMD

Bernard G. Levine, VMD

Walter F. Loeb, VMD

George P. Wilson III, VMD

V*56

Charles D. Knecht, VMD

Thomas Sollas, VMD

Max A. Van Buskirk, Jr., VMD

George D. Vernimb, VMD

V*57

Virginia Eaton Flynn, VMD

Lillian A. Giuliani, VMD

Charles W. Koenig, VMD

V*58

George L. Flickinger, Jr., VMD

Daniel V. Flynn, VMD

Mead Shaffer, VMD

Curtis A. Zillhardt, VMD

V*59

Raymond W. Giuliani, VMD

Leigh A. Marsh, VMD

Sheldon A. Steinberg, VMD

1960-1969

V*60

Arthur A. Bickford, VMD

Ralph L. Brinster, VMD, PhD

Pierre A. Conti, VMD

Elaine P. Hammel, VMD

V*61

Donald A. Abt, VMD

John P. Burlein, VMD

Francis W. Daniel, Jr., VMD

Harriet A. Doolittle, VMD

Paul A. Evans, VMD

V*62

Bert M. Allen, VMD

Charles E. Kresge, VMD

A. Gary Lavin, VMD

A. Harris Mosher, VMD

James S. Reid, VMD

V*63

Frederic K. Baff, VMD

Sherbyn W. Ostrich, VMD

Max L. Sponseller, VMD

Melvyn G. Wenger, VMD

V*64

Joseph J. Gruber, VMD

James O. Thomas, VMD

Willi K. E. Weichelt, VMD

V*65

Larry R. Bason, VMD

James M. Clinton, VMD

Seth A. Koch, VMD

Edward M. Mimmagh, VMD

William S. Rokus, VMD

V*66

Jack Bregman, VMD

David H. Fortna, VMD

Edward M. Goglia, VMD

William D. Hardy, Jr., VMD

Robert F. Jochen, VMD

Elmer F. Laffey, VMD

William F. Lucker, Jr., VMD

Ronald Minor, VMD

William S. Stockman, VMD

V*67

James R. Armstrong, VMD

Robert J. Eisner, VMD

Lenn R. Harrison, VMD

Howard C. Hughes, Jr., VMD

Alan D. Marley, VMD

Patricia A. O'Handley, VMD

Eugene P. Steffey, VMD

V*68

George L. Hartenstein IV, VMD

Frederick B. Peterson, VMD

Linda M. Schoenberg, VMD, PhD

Donald B. Shatto, VMD

William J. Solomon, VMD

James Stewart, VMD

Robert W. Stewart, VMD

V*69

Malcolm Borthwick, Jr., VMD

Robert C. Hallock, Jr., VMD

Peter H. Herman, VMD

dean's alumni council

Established in March 2011, the mission of the Dean's Alumni Council is for a group of alumni leaders to work closely with the Gilbert S. Kahn Dean of Veterinary Medicine and Office of Alumni Relations, Advancement and Communication on various projects to connect alumni, students, and the public to the Penn Vet community for the purpose of alumni engagement and stewardship, community ambassadorship and student interactions.

Charles C. Arensberg, VMD

Heather A. Berst, VMD

Eric M. Bregman, VMD

Jack Bregman, VMD

Nancy O. Brown, VMD

Mary A. Bryant, VMD

Dennis E. Burkett, VMD

Carla Chieffo, VMD, PhD

Mark A. Cofone, VMD

Henry L. Croft, Jr., VMD

Kristin L. Dance, VMD

Timothy J. Davenport, VMD

Camille DeClementi, VMD

Ian J. Driben, VMD

Diane Ruth Eigner, VMD

Andrew H. Elser, VMD

Susan G. Emeigh Hart, VMD PhD

Lawrence J. Gerson, VMD

Elaine P. Hammel, VMD

Nathan D. Harvey, VMD

Mattie J. Hendrick, VMD

Peter H. Herman, VMD

Susan Irene Jacobson, VMD

Charlotte Miller Keenan, VMD

Charles W. Koenig, VMD

Patrick A. Mahaney, VMD

Eileen Louise Mera, VMD

Michael R. Moyer, VMD

Scott E. Palmer, VMD

Dominick A. Pulice, VMD

Gary Edward Rothman, VMD

William J. Solomon, VMD

Sheldon A. Steinberg, VMD

Robert W. Stewart, VMD

Brenda Lewis Stewart, VMD

James V. Stewart, VMD

Robert W. Stewart, VMD

Raymond Stock, VMD

Erin D. Vicari, VMD

Marilyn B. Weber, VMD

Jacob R. Werner, VMD

Jeffrey A. Wortman, VMD

Peter D. Herman, VMD
D. Ray Hostetter, VMD
Frederick B. Peterson, VMD

1970-1979

V'70
Ronnie Elkins Cimprich, VMD
William S. Gardner, VMD
Richard R. Knavel, VMD
Andrew Major, VMD
John L. O'Donoghue, VMD, PhD
Brenda Stewart, VMD
Steven E. Weisbrode, VMD

V'71
Christopher C. Barton, VMD
Andrew J. Breslin, VMD
Jack B. Drummond, VMD
William G. Farrell, VMD
W. Southard Jones, Jr., VMD
Frank A. Klimitas, VMD
Donald A. Marcus, VMD
Sally A. Pepper, VMD
Gerald E. Pietsch, VMD
James H. Rush, VMD
Lawrence W. Samples, VMD
Stephen A. Smalley, VMD
Arthur H. Wilcox, VMD
Richard B. Wolstenholme, VMD

V'72
Louis C. Bach, VMD
Jill Beech, VMD
Kenneth L. Bollens, Jr., VMD
Charles E. Brown, VMD
Catherine Walleigh Carnevale, VMD
Paul C. Gambardella, VMD
James S. Harper, VMD
E. Scott McAllister, VMD
Victor T. Rendano, Jr., VMD

V'73
Richard A. Carnevale, VMD
Randall C. Fertelmes, VMD
Jerry D. Frantz, VMD
Jay N. Leeb, VMD
Dorothy J. Miller, VMD
Eddie F. Molesworth, VMD
Kathryn H. Nepote, VMD
Stephen G. Soule, VMD
Amos W. Stults, Jr., VMD

V'74
David J. Abdinoor, VMD
Frank M. Abel, VMD
John C. Bloom, VMD, PhD
Virginia Schaefer Dobozy, VMD
Margaret L. Harbison, VMD
William T. Hill, VMD
James Schroll, VMD
Jane S. Schroll, VMD
Roger F. Sembrat, VMD
John C. Simms, VMD
Norman E. Smith, VMD
Thomas A. Sutch, VMD
Arthur T. Wirtz, Jr., VMD

V'75
John M. Cullen, VMD
Lydia L. Donaldson, VMD
Lawrence Gerson, VMD
William D. Hope, Jr., VMD
Peter F. Jezyk, VMD
Betty S. Johnston, VMD
Ann Wayne Lucas, VMD
Michael K. Moss, VMD
Frank E. Skacel, Jr., VMD
Raymond Stock, VMD
Greg P. Sykes, VMD
Sherry Lee Talowsky, VMD
Beryl Calvin Taylor, VMD
Kathleen M. Tracy, VMD
Thomas J. Van Winkle, VMD
Marilyn B. Weber, VMD

V'76
Robert J. Ashman, VMD
Elaine A. Ferrara, VMD
Britan A. Kilbourne, VMD
Cynthia J. Kosacz, VMD
Paul D. Kutish, VMD
Robert A. Nizlek, VMD
Scott Palmer, VMD
Joel M. Reif, VMD
Sharon K. Wirtz, VMD
George F. Zimmerman, VMD

V'77
Richard T. Brown, VMD
Allen J. Conti, VMD
Robert M. Frey, VMD
Stephen L. Gross, VMD
Susan Irene Jacobson, VMD
David C. Johnson, VMD
Charlotte Miller Keenan, VMD
Susan A. MacKenzie, VMD
Barbara K. Stewart, VMD
Edwin A. Wagner, VMD
John C. Widenmeyer, VMD

V'78
Linda E. Aiken, VMD
Daniel L. Baker, VMD
Nancy M. Bromberg, VMD
Henry L. Croft, Jr., VMD
Mattie J. Hendrick, VMD
Hazel M. Holman, VMD
Susan D. Morgan, VMD
Lavonne R. Newman, VMD
Nadine Oakley, VMD
Deborah S. Patt, VMD
Linda Rhodes, VMD PhD
Sara F. Rice, VMD
Dale A. Schilling, VMD
Barbara E. Smith, VMD
Mark E. Stair, VMD
Larry L. Stefanick, VMD

V'79
Joel R. Bigger, VMD
John E. Brockett, VMD
Cynthia C. Coppock, VMD
Sharon A. Dailey, VMD
Patricia A. Day-Lollini, VMD
John F. Hampson, VMD
Joan C. Hendricks, VMD, PhD

Michael Miller, VMD
Joan Regan, VMD

1980-1989

V'80
Steven W. Atwood, VMD, MD
Kevin P. Coogan, VMD
Sandra M. Dudek, VMD
Diane Ruth Eigner, VMD
Patricia J. Glennon, VMD
Leslie A. Goldsmith, VMD
Mark Mendlowitz, VMD
Marylouise A. Visco, VMD
Henry B. Warren, VMD
Robert J. Weiner, VMD
Alexandra Wetherill, VMD

V'81
Marilyn F. Balmer, VMD
Mark W. Beere, VMD
Edgar Mark Fox, VMD
John M. Gliatto, VMD
Perry L. Habecker, VMD
Michael J. Herman, VMD
Dolores M. Holle, VMD
Michael I. Kotlikoff, VMD
Richard M. Levine, VMD
John B. Madison, VMD
Carolyn M. McDaniel, VMD
Sara Ann T. Moran, VMD
Paul H. Nicolaysen, VMD
Gary J. Quinn, VMD
Deborah Smith Roberts, VMD

V'82
Anthony Decarlo, VMD
Barbara D. Forney, VMD
Lynn S. Frankhouser-Keller, VMD
Deirdre M. Hensen, VMD
Phillip R. Hunt, VMD
Donald K. Lowe, VMD
William Ralph Lowe III, VMD
Richard Scott Meirs, VMD
Kathleen D. Moody, VMD
Joseph A. Nebzydoski, VMD
Suzanne J. Smith, VMD
Raymond W. Sweeney III, VMD

V'83
Betsy L. Dayrell-Hart, VMD
Susan G. Emeigh Hart, VMD
Gail W. Heyer, VMD
John T. Kristy, VMD
Susan G. McCawley, VMD
Jeffrey D. Palmer, VMD
Kevin C. Skinner, VMD
Jeanne L. Van Nuys-Hitt, VMD
Linda Waltz Schaffer, VMD

V'84
Alan S. Glassman, VMD
Joseph C. Glennon, VMD
Kim A. Herrman, VMD
David S. Kramer, VMD
Laurie J. Landeau, VMD
Andrew P. Nebzydoski, VMD
Cynthia A. Neibert, VMD
Kenneth W. Volk, Jr., VMD
Margarita Vazquez Volk, VMD

V'85
Mark A. Cofone, VMD
Barbara J. Flickinger, VMD
Jean M. Lasser, VMD
Christopher L. McCawley, VMD
Patricia A. Morgan, VMD
Gregory H. Peterson, VMD
Neal C. Ralston, VMD
Julia M. Block Schwartz, VMD
Ronald J. Stas, VMD
Gregory M. Thibodeau, VMD
Robert M. Thompson, Jr., VMD

V'86
Peter F. Azary, VMD
Doris Adele Cappiello, VMD
Carla Chieffo, VMD, PhD
Christine Joan Cioffe, VMD
Cynthia Ann Hunt, VMD
Wendy McIlroy, VMD
Eileen Louise Mera, VMD
Dominick A. Pulice, VMD
Francine Koplin Rattner, VMD
Charles Corbit Wolfe, VMD

V'87
Elizabeth Soper Azary, VMD
Nina Ruth Beyer, VMD
Andrew H. Elser, VMD
William Philip Feeney, VMD
Joan Mary Ritchie, VMD
Margot Beth Schwag, VMD
Joan M. Yarnall, VMD

V'88
Ellen Nicole Behrend, VMD
Michele Lea Ferraro, VMD
Andrew Mark Fitzgerald, VMD
John W. Kreider, VMD
Susan Turnbull Laevy, VMD
Michael George Nosko, VMD
Gary Rothman, VMD
Farid C. Saleh, VMD
Bruce Frederic Smith, VMD PhD

V'89
Joanna M. Bassert, VMD
Laurie Giannella-Serfilippi, VMD
Dorothy Frances Hayes, VMD

1990-1999

V'90
Martha E. Bugbee, VMD
Douglas A. Hambright, VMD
Lawrence Rebbecchi, VMD
Nicholas E. Sitanas, VMD
Amy J. Wenger, VMD

V'91
Jean Marie Betkowski, VMD
Gregg W. Campbell, VMD
Scott David Johnson, VMD
Jaime F. Modiano, VMD
Lee Anne M. Palmer, VMD
Mark J. Pykett, VMD PhD
Lindsay S. Shreiber, VMD
Mary B. Van Kooy, VMD

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

V*92

Linda McLaughlin Barchet, VMD
 Pamela L. Baddock, VMD
 Lisa A. Cawley, VMD
 Dinah E. Flack, VMD
 Maureen Hargaden, VMD
 Karen B. Harvey, VMD
 S. J. Woolwich Holzman, VMD
 Sharon P. Lachette, VMD

V*93

Evan A. Feinberg, VMD
 Jan V. Ginsky, VMD
 Jennifer Felicia Johnson, VMD
 Gail Reidler Mackey, VMD
 Betsy C. Squires, VMD

V*94

Steven P. Cudia, VMD
 Tamar B. Goldstein, VMD
 Christopher A. Hunsinger, VMD
 Arthur Jankowski, VMD
 Kenton D. Rexford, VMD

V*95

Eric M. Bregman, VMD
 Mary A. Bryant, VMD
 Joshua H. Clay, VMD
 Sheila M. Gomez, VMD
 Christopher L. Hallihan, VMD
 James M. McNamara, Jr., VMD
 Christopher N. Scotti, VMD
 Michelle C. Scotti, VMD

V*96

Jeffrey A. Booth, VMD
 Alexandra F. Bray, VMD
 Leonard N. Donato, VMD
 Patricia J. Mapps, VMD
 Karen L. Usselman, VMD
 Beth A. Zmijewski, VMD

V*97

Scott A. Polo, VMD

V*98

Edytheann DeMaria, VMD
 Christina J. Dolan, VMD
 Cynthia Nass Eldredge, VMD
 Victoria Johnson, VMD

V*99

Stacey W. Kent, VMD
 Kathryn Kirstein, VMD
 Courtney M. Manetti, VMD
 Richard D. Marchetti, VMD
 Mira L. McGregor, VMD
 Jennifer A. Morris, VMD
 Jackie O'Donnell, VMD
 Erica C. Parthum, VMD
 Robert W. Stewart, Jr., VMD

2000-2009

V*01

Blayne P. Bergenstock, VMD
 Dorian L. Haldeman, VMD
 Adam D. Miller, VMD

V*02

Jeleen A. Briscoe, VMD
 Elizabeth Gordan Ellis, VMD
 Julie B. Engles, VMD

Katherine Masek Hammerman,
 VMD, PhD
 Jeffrey J. Horst, VMD
 John D. Sivick, VMD

V*03

Charles C. Arensberg, VMD
 Nathan D. Harvey, VMD
 Kate E. Johnson, VMD
 Corinne Majeska, VMD
 Sean C. Ott, VMD
 Jeremy J. Wentz, VMD

V*05

Keira J. Mellion, VMD

V*06

Wesley Baff, VMD
 Patrick Ford, VMD
 Anne R. Hessel, VMD
 Sarah Zimmerman, VMD

V*08

Amy R. Marks, VMD

Veterinary Heritage Circle Members

The Veterinary Heritage Circle recognizes those benefactors who have provided for Penn Vet's future through various planned-giving options. Through their estate planning they have created a meaningful legacy for present and future generations of veterinarians, and for the animals they care for. The School extends its deepest gratitude to Veterinary Heritage Circle members for their exceptional generosity, which sustains the School's tradition of excellence in teaching, research, and healing.

Mr. Steve Aberblatt
 Donald A. Abt, VMD
 Mr. Jim Anderson
 Edwin J. Andrews, VMD, PhD
 Dr. Patricia A. Assan
 Loy C. Awkerman, VMD
 Mr. Robert Barnes
 Ann E. Bastian, VMD
 Jill Beech, VMD
 Mrs. Barbara J. Bell
 Charles N. Bell, VMD
 Mrs. Darlene A. Bennett
 Mr. H. D. Bennett
 Mrs. Patricia L. Billhardt
 Miss Carlene C. Blunt
 Anonymous
 Robert M. Brenner, VMD
 Karen Brockman, VMD
 Karl Y. R. Brook, MD
 Paul Brown, VMD
 Mrs. Renee A. Brown
 Mr. and Mrs. Charles Brunner
 Ms. Arlene Brusnahan
 Mrs. Elizabeth M. Bugio
 Mr. Robert J. Bugio
 Ms. Eleanor Cadugan
 Ms. K. Carol Carlson
 Mrs. Ann Chanin
 Ms. Karen S. Chase

Mr. Chuck Christy
 Mrs. Elizabeth R. Chuska
 Eric Clough, VMD
 Robert H. Cohen, VMD
 Ms. Edith M. Collins
 Mr. Richard Kaye Davis
 Ms. Susan P. Davis
 Anthony J. De Carlo, VMD
 Mr. Francis Denaro
 Ms. Karen E. Denaro
 Mr. Douglas Derr
 Carol A. Dolinskas, MD
 Ms. Marilyn K. Dominick
 Mrs. Nancy J. Donahue
 Wilbur D. Donahue, VMD
 Mrs. Helene Z. Dreisbach
 Robert C. Dreisbach, VMD
 Mr. Dale Dulaney
 Ms. Kathleen L. Dunn
 Ms. Deborah Dwyer
 Ms. Joan B. Dynan
 Ms. Mary Elberty
 Sheldon S. Farber, VMD
 Mrs. Isabelle T. Farrington
 Joseph D. Fecher, Jr., VMD
 Mrs. Bernadette W. Fecher
 Carol H. Fegley, VMD
 Harry C. Fegley, VMD
 Mr. Wayne E. Ferguson
 Mr. Robert Flanders
 Ms. Stephanie Flett
 Susan T. Floyd, VMD
 Mr. Allen Fox
 Mrs. Susan Fox
 Robert M. Frey, VMD
 Mr. & Mrs. Theodore Gannutz
 Dr. Janice Gaska
 Paula S. Gladue, VMD
 Mr. & Mrs. Arthur Glatfelter
 Mr. Barry Goldblatt
 Mr. Walter Flato Goodman
 Mark B. Guise, VMD
 Mr. Darren Gutshall
 Ms. Dorothy K. Gutshall
 Ms. Katherine J. Hadden
 Ms. Michele Hamilton
 Kathryn A. Hanson, VMD
 Linda L. Hanson, VMD
 Mr. Peter Harvison
 Ms. Frances F. Harwell
 Mr. & Mrs. Robert Heinrich
 Mr. Wilbur W. Hitchcock
 Mrs. Ann Hoover
 Mr. Jackson Y. Jennings, Esquire
 Ms. Anne S. Johnston
 Betty S. Johnston, VMD
 Ms. Eleanor Joyce Jones
 Ms. Margo L. Jones
 Mrs. Jeannette F. Kaufman

Ms. Sandra Kebe
 Mr. John E. Keefe
 Ms. Monique K. Kelly
 Mr. Bob Kirwan
 Charles D. Knecht, VMD
 Mr. Paul M. Knight
 Seth A. Koch, VMD
 Mrs. Paula Koski
 Ms. Christine Kozak
 Mr. Alan Krigman
 Dr. Evelyn S. Kritchevsky
 Mrs. Linda Leatherbury
 Mrs. Susan S. Leiper
 Mr. Elliot G. Lengel
 Mrs. Joan C. Lien
 Mrs. Evelyn Mack
 Ms. Cynthia A. Madden
 Ms. Linda Mahan
 Patricia J. Mapps, VMD
 Rafael A. Margarida, DDS
 Edgar R. Marookian, VMD
 Mrs. Myrval Marookian
 Mrs. Catherine Martin
 Mr. Darrell Martin
 Ms. Kimberly C. Mason
 Anonymous
 Lea McGovern, VMD
 Ms. Elizabeth H. McKeon
 Ms. Marie McNally
 Mr. and Mrs. E. David Melcher
 Eileen Louise Mera, VMD
 Jacqueline Metzler, VMD, PhD
 Mrs. Carole A. Miller
 Mr. Kenneth Miller
 Calvin Moon, VMD
 Mrs. June Moon
 Mr. John Moore
 Ms. Mary Ann Moore
 Mrs. Elizabeth R. Moran
 Ms. Andrea Morgan
 Mr. John A. Morgan
 Susan D. Morgan, VMD
 David L. Moyer, VMD
 Dr. William R. Newman
 Mr. & Mrs. Michael Ney
 Ms. Martha C. Nguyen, Esquire
 Ms. Shirley B. Nielsen
 Mrs. Bonnie S. O'Neil
 Ms. Helen O'Neill
 Mr. James F. O'Rourke III
 Ms. Diana Palena
 Stephen J. Peoples, VMD
 Ms. Roslyn Perelman
 Scott E. Perkins, VMD
 Mrs. Mary Ann Piretti
 Charles W. Raker, VMD
 Ms. Doris Gates Rankin, Esquire
 Mr. Francis H. Rasmus, Jr.
 Mrs. Laurie Ratner



“The work being done at Penn Vet re-affirms that my [estate] gift is one of the best decisions I have ever made.”

— Kimberly Mason, *Veterinary Heritage Circle Member*

Michael P. Ratner, VMD
 Francine Koplin Rattner, VMD
 Mrs. Reba Ravitch
 Robert F. Reichard, VMD
 James S. Reid, VMD
 Mrs. Nanette Rice Reid
 Victor T. Rendano, Jr., VMD
 Daniel H. Rice, VMD
 Ms. Linda Rink
 Mrs. Gloria Zurkow Rubin
 Mrs. Elizabeth Rudy
 Mr. and Mrs. Ted A. Russell
 Barry Schenk, MD
 Ms. Cornelia Schlotter
 Ms. Susan A. Schmidt
 Ms. Zella B. Schrall
 Laura Schrock, MD
 Ms. Sue Sefscik
 Mr. and Mrs. Paul Seymour
 Mrs. Carolyn M. Shaffer
 Grant C. Sheckler, VMD
 Mr. and Mrs. E. B. Shimp
 Mrs. Helen Shinnors
 Mr. and Mrs. D. J. Shoemaker
 Mr. Fred N. Simken
 Mrs. Marian F. Simken
 Kevin C. Skinner, VMD
 John E. Sonne, VMD
 Michael W. Spancake, VMD
 Ms. Patricia Spear
 Mrs. Shirley H. Springer
 Allan Stanton, VMD
 Abram B. Stavitsky, VMD
 Ms. Ruth Stavitsky
 Robert M. Steiner, MD
 Mrs. Mary McMahon Stewart
 Robert W. Stewart, VMD
 Ms. Tawn J. Stokes
 Mrs. Gale Streicher
 Ms. Sara Sweeney
 John E. Tartaglione, VMD
 Ms. Terry R. Taylor
 Mr. Clark T. Thompson
 Mrs. Rose Franck Thompson
 Mr. Francis G. Toth
 Ms. Beverly Trusky
 Max A. Van Buskirk, Jr., VMD
 Mrs. Mary Jane W. Van Buskirk
 Jeanne L. Van Nuys-Hitt, VMD
 Ms. Lynn Vanduyne
 Peter L. Vogel, VMD
 Mr. Walter C. Wells
 Ms. Janis Whittier
 Anonymous
 John L. Wilkins, VMD
 Ms. Monica S. Willett
 Robert E. Wilson, VMD
 Theodore V. Yuhus, VMD
 Mr. Al Zlobik

Pet Memorial Program Participants

The Pet Memorial Program provides an opportunity for all to pay tribute to the animals that have touched their lives while supporting a leader in veterinary medicine -- the Ryan Veterinary

Hospital. By making gifts in memory of beloved pets, friends and veterinary practitioners assist Ryan Hospital in providing world-renowned veterinary care for their animal patients and remain at the forefront of veterinary education.

Allenwood Animal Hospital
 Animal Care Center
 Animal Care Centers
 Animal Clinic at Thorndale
 Ark Animal Hospital
 Back Bay Veterinary Clinic
 Frederic K. Baff, VMD
 Wesley Baff, VMD
 Barton Heights Veterinary Hospital
 Bayside Animal Medical Center
 Pamela L. Bendock, VMD
 Bensalem Veterinary Hospital
 Ken Berg, DVM
 Bethel Veterinary Hospital PC
 Nina Ruth Beyer, VMD
 Julia M. Block Schwartz, VMD
 Kenneth L. Bollens, Jr., VMD
 Alexandra F. Bray, VMD
 Mr. James David Bray
 Bridgewater Veterinary Hospital
 Charles E. Brown, VMD
 Bucks County V.E.T.S.
 Mark B. Burch, DVM
 Elizabeth E. Burke DVM
 Burnt Mill Veterinary Center
 Camboro Veterinary Hospital
 Gregg W. Campbell, VMD
 Doris Adele Capiello, VMD
 Cat Doctor, Inc.
 Lisa A. Cawley, VMD
 Chippens Hill Veterinary Hospital
 Kirsten Haight Cianci, VMD
 Mrs. Amy S. Coogan
 Kevin P. Coogan, VMD
 Corner Animal Hospital
 Mrs. Carolyn R. Cotter
 County Animal Hospital, Inc.
 County Line Veterinary Hospital
 Dr. Jennifer Cree
 Rose Ann Crisci, VMD
 Henry L. Croft, Jr., VMD
 Cross Keys Animal Hospital, LLC
 Croton-on-Hudson Veterinary Clinic
 Edytheann DeMaria, VMD
 Leonard N. Donato, VMD
 Eagle Veterinary Clinic
 East Bay Veterinary Housecall Services
 Ehrlich Animal Hospital
 Diane Ruth Eigner, VMD
 Cynthia Nass Eldredge, VMD
 Engelberg-Kristy Animal Hospital
 Ms. Nancy L. Farrish
 Evan A. Feinberg, VMD
 Juan L. Ferrer Perez, VMD
 Ms. Susan Gabriel
 Joseph C. Glennon, VMD
 Greenfields Veterinary Associates
 Dr. Dana Greenleaf
 Greenwich Animal Hospital PC
 Stephen L. Gross, VMD
 Christopher L. Hallihan, VMD
 Robert C. Hallock, Jr., VMD

Douglas A. Hambright, VMD
 Hamilton Animal Hospital
 George L. Hartenstein IV, VMD
 Dorothy Frances Hayes, VMD
 David R. Hensen, DVM
 Deirdre M. Hensen, VMD
 HHD Mobile Veterinary Clinic, LLC
 Hill Street Veterinary Hospital
 Hospital De Animales
 William V. Hough, VMD
 Susan Irene Jacobson, VMD
 David C. Johnson, VMD
 Jennifer Felicia Johnson, VMD
 W. Southard Jones, Jr., VMD
 Michael Josephs, DVM
 J. Ritchie Veterinary Hospital
 Kentmere Veterinary Hospital
 Harold Kopp, VMD
 David S. Kramer, VMD
 John T. Kristy, VMD
 Sharon P. Lachette, VMD
 Mr. Christopher Le Vine
 Mrs. Victoria Le Vine

Paumanok Veterinary Hospital
 Perkiomen Animal Hospital
 Pets Aloud Mobile Vet Services
 Pleasant Valley Veterinary Services
 Plumtrees Animal Hospital
 Prospect Ridge Veterinary Hospital
 Dominick A. Pulice, VMD
 Dr. Julie Rabinowitz
 Radnor Veterinary Hospital
 Ms. Renee S. Rainville
 Francine Koplin Rattner, VMD
 Red Lion Veterinary Hospital
 Joan Mary Ritchie, VMD
 Rockhill Veterinary Associates
 Marc E. Rosenberg, DVM
 James R. Rummel, VMD
 Farid C. Saleh, VMD
 Kenneth R. Sanders, VMD
 Sanders Animal Clinic
 John C. Simms, VMD
 Katherine A. Sinko, VMD
 Barbara E. Smith, VMD
 Laura J. Snyder, VMD

“When we received a Penn Vet pet memorial card from our veterinarian after our beloved dog passed away, we were so touched that we chose to express our condolences to our friends who lost their dogs by participating in the program, too. It’s never easy to lose a pet, but this gesture to fellow pet lovers reminds them that we are with them.”

— Tom Hassell, *Pet Memorial participant*

Jay N. Leeb, VMD
 Dr. Eric H. Linnetz, Jr.
 Ms. Judith Lombardi
 Loyalhanna Veterinary Clinic
 Lums Pond Animal Hospital
 Maine Coast Veterinary Hospital
 Courtney M. Manetti, VMD
 Amy R. Marks, VMD
 Mr. Brian C. Marks
 Deborah Masso, DVM
 James M. McNamara, Jr., VMD
 Eileen Louise Mera, VMD
 Merck & Co., Inc.
 Meriden Wallingford
 Veterinary Associates
 Metropolitan Veterinary Hospital
 Michael K. Moss, VMD
 Nebel Street Animal Hospital
 Joseph A. Nebzydoski, VMD
 Mrs. Kerry J. Nebzydoski
 North Boros Veterinary Hospital
 Nadine Oakley, VMD
 Sean C. Ott, VMD
 Deborah S. Patt, VMD
 Patton Veterinary Hospital
 Patt Veterinary Hospital Ltd.

South Arundel Veterinary Hospital
 Laurie A. Sponza, VMD
 Mary Stankovics, DVM
 Stevenson Village Vet Hospital
 Robert W. Stewart, VMD
 Stoney Creek Veterinary Hospital
 Sweet Valley Veterinary Clinic
 Gregory M. Thibodeau, VMD
 James O. Thomas, VMD
 Robert M. Thompson, Jr., VMD
 Thoreau Veterinary Hospital
 University Drive Veterinary Hospital
 Mary B. Van Kooy, VMD
 VCA Antech, Inc.
 Vetco Animal Hospital
 Veterinary Ophthalmology Services
 Veterinary Specialties Referral Center
 Mr. David Wechsler
 Louise E. Wechsler, VMD
 Bruce M. Weitzner, VMD
 Mr. and Mrs. Earl D. Weldin
 Jeremy J. Wentz, VMD
 White Haven Veterinary Hospital
 Wilmington Trust Company
 Woburn Animal Hospital
 Wright Veterinary Medical Center
 Joan M. Yarnall, VMD

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

TRIBUTE DONORS

Youngsville Veterinary Clinic
Beth A. Zmijewski, VMD

Opportunity Scholarship Participants

Established in 1998 by professor and equine surgeon Charles W. Raker, V⁴², the mission of the Opportunity Scholarship Program is to foster scholarship support and mentoring opportunities for future veterinarians trained at Penn Vet.

Animal Critical Care & Specialty Group, Inc.
Jill Beech, VMD
Thomas Bowman, DVM
Bernard F. Brennan, VMD
Johanna Briscoe, VMD
Anonymous
Centre Equine Practice
Ms. Christine Connelly
Ms. Kathleen Crompton
Anthony J. De Carlo, VMD
Mr. Anthony W. Dutrow
Andrew H. Elser, VMD
James F. Geer, VMD
Lawrence J. Gerson, VMD
Ms. Gail M. Habecker
Perry L. Habecker, VMD
Dorian L. Haldeman, VMD
James S. Harper, VMD
Mr. W. J. Hart
Susan G. Emeigh Hart, VMD, PhD
Dr. Elisabeth A. Hasslacher
D. Ray Hostetter, VMD
Mrs. Jane Hostetter
Mr. Robert W. Huffman
Dr. Kevin P. Keane
Friends of Dr. Robert M. Kenney
Mrs. Sandra Jones Koenig
Charles W. Koenig, VMD
Mrs. Sandra J. Koenig
Dr. Michaela A. Kristula
Laurels Combined Driving Event
A. Gary Lavin, VMD
John W. Lee, Jr., DVM
Richard M. Levine, VMD
Ann Wayne Lucas, VMD
Matthew Mackey- Smith, VMD
John B. Madison, VMD
Ms. Linda Mahan
E. Scott McAllister, VMD
Ronald R. Minor, VMD, PhD
Mrs. Theresa Minor
Mrs. Ellen Moelis
Herbert I. Moelis, Esquire
Patricia A. Morgan, VMD
Jennifer A. Morris, VMD
Andrew P. Nebzydoski, VMD
Joseph A. Nebzydoski, VMD
Mrs. Kerry J. Nebzydoski
Mrs. Dianne K. Ostrich
Sherbyn W. Ostrich, VMD
Mrs. Janet E. Palmer
Scott E. Palmer, VMD
Erica C. Parthum, VMD
Penn Vet Class of 1981
Frederick B. Peterson, VMD
Petland Village of Eastside
Philadelphia Animal Hospital

Quarryside Animal Hospital
Charles W. Raker, VMD
Lawrence A. Rebbecchi, Jr., VMD
Red Bank Veterinary Hospital, PC
Kenton D. Rexford, VMD
Dr. Dean W. Richardson
Dr. Laura Richardson
Mrs. Susan Robinovitz & Friends
Gary Edward Rothman, VMD
Jane Sparacino Schroll, VMD
H. James Schroll, VMD
Mead F. Shaffer, Jr., VMD
Lindsay S. Shreiber, VMD
John D. Sivick, VMD
Thomas V. Sollas, Jr., VMD
William J. Solomon, VMD
Stephen G. Soule, VMD
Robert W. Stewart, Jr., VMD
Brenda Lewis Stewart, VMD
James V. Stewart, VMD
Robert W. Stewart, Jr., VMD
Robert W. Stewart, Sr., VMD
Dr. Corinne R. Sweeney
Raymond W. Sweeney III, VMD
T. Rowe Price Group, Inc.
Beryl Calvin Taylor, VMD
TCA Endowment
Mrs. Anne F. Thorington
Unionville Equine Associates P.C.
Valley Veterinary Hospital P.C.
Veterinary Emergency Clinic Inc.
Wallenpaupack Veterinary Clinic
Washington Square Animal Hospital
Marilyn B. Weber, VMD
Mrs. Martha Good Wenger
Melvyn G. Wenger, VMD

Friends of Penn Vet

The Friends of Penn Vet Fund is our most vital source of annual unrestricted gift revenue. Supporting the Penn Vet Fund provides the spending flexibility that enables the School to respond quickly to unforeseen needs and new opportunities, such as the development of academic programs, support for innovative studies and the purchase of new equipment and technologies. Gifts to this fund are critical to the advancement of Penn Vet's comprehensive mission of teaching, research and healing.

Ms. Anne Sima Abel
Donald A. Abt, VMD
Linda E. Aiken, VMD
Mrs. Theresa Aldamlouji
Mr. Zaid Aldamlouji
Mrs. Josephine J. Aller
Mr. Robert C. Aller
Ms. Jennifer J. Alvarez
Steven W. Atwood, VMD, MD
Ms. Katharine Austin Barnes
Louis C. Bach, VMD
Daniel L. Baker, VMD
Ms. Laura Behar
Blayne P. Bergenstock, VMD
Jean Marie Betkowski, VMD
Mrs. Kathy Biedenbach
Mr. Steve Biedenbach
Mr. Jack Billhardt
Mrs. Patricia L. Billhardt
Mrs. Michele Blazer
John C. Bloom, VMD, PhD
Ms. Katherine R. Blyth
Ralph L. Brinster, VMD, PhD
Nancy M. Bromberg, VMD
Charles E. Brown, VMD

A top fundraising priority, the Annual Fund supports Penn Vet's commitment to innovative educational programs to train veterinarians and biomedical scientists; to pioneering research and the discovery of new knowledge in the basic and applied sciences; and to maintaining a strong commitment to specialized veterinary medical care and service.

Mr. Mark H. Bryant
Dr. Petra Burke-Ramirez
John P. Burlein, VMD
Mr. Craig R. Camaroli
Ms. Maureen Calloway Carnevale
Richard A. Carnevale, VMD
Carla Chieffo, VMD, PhD
Joshua H. Clay, VMD
Mr. Juan J. Colina de Vivero
Mr. Richard Kaye Davis
Christina J. Dolan, VMD
Mr. Douglas Donahue, Jr.
Mrs. Susan Donahue
Lydia L. Donaldson, VMD
Mrs. Jeanne M. Eisele
Endo Pharmaceuticals
William G. Farrell, VMD
William Philip Feeney, VMD
Mr. Wayne E. Ferguson
Randall C. Fertelmes, VMD
Mrs. Ruth K. Fertelmes
Ms. Jessica E. Fischer
Mr. Paul F. Fischer
Mr. Jay S. Fishman
Mrs. Randy Chapman Fishman
Fishman Family Foundation
Andrew Mark Fitzgerald, VMD
Mr. Donald T. Floyd
Edgar Mark Fox, VMD
Mr. Kenneth Galler
Mr. Anthony N. Garvan, Jr.
Keith W. Gates, VMD
Mrs. Lois F. Gates
Alan S. Glassman, VMD
Patricia J. Glennon, VMD
Tamar B. Goldstein, VMD
John F. Hampson, VMD
Mrs. Roberta B. Hampson
Maureen Hargaden, VMD
Joan C. Hendricks, VMD, PhD
Mrs. Marie G. Herman
Peter H. Herman, VMD
Mr. Howard L. Herzog
Anne R. Heskell, VMD
Mr. Andrew R. Heyer
Mrs. Mindy Halikman Heyer
Andrew R. Heyer & Mindy Heyer Fdn
William T. Hill, VMD
Mr. Hugo Hollinger
Mr. Robert S. Jakobi
Kate E. Johnson, VMD
Ms. Margo L. Jones
Joann DiDonato Kazdin
Mr. John E. Keefe
Mr. Clayton G. Kilrain
Mrs. Sharon M. Kilrain
Seth A. Koch, VMD
Cynthia J. Kosacz, VMD
Michael I. Kotlikoff, VMD
David S. Kramer, VMD
Charles E. Kresge, VMD
Paul D. Kutish, VMD
Jean M. Lasser, VMD
Mr. and Mrs. Joseph R. Lasser
Jay N. Leeb, VMD
Bernard G. Levine, VMD
William F. Lucker, Jr., VMD
Mady Fund
Andrew Major, VMD
Andrew & Gemma Major Giving

Patricia J. Mapps, VMD
Donald A. Marcus, VMD
Christopher L. McCawley, VMD
Susan G. McCawley, VMD
Carolyn M. McDaniel, VMD
Merck Research Labs
Admiral John Miksa
Adam D. Miller, VMD
Dorothy J. Miller, VMD
Mrs. Joanna Milstein
Edward M. Mimmagh, VMD
Mrs. Margaret M. Mimmagh
Richard V. Morgera, VMD
Mrs. Sharon Morgera
Nadine Oakley, VMD
Dr. Salvatore A. Orsini
Pennsylvania Veterinary Medical Association
Providence Veterinary Hospital
Victor T. Rendano, Jr., VMD
Linda Rhodes, VMD, PhD
Sara F. Rice, VMD
Deborah Smith Roberts, VMD
Mr. Mark Rockkind
Mrs. Patricia W. Rockkind
Rosalind Schwebel Revocable Trust
Mrs. Karen Rylander-Davis
Farid C. Saleh, VMD
Ms. Patricia Salmon
Ms. Cornelia Schlotter
Linda M. Schoenberg, VMD, PhD
Dr. Phillip Andrew Scott
Mr. Ira Sherman
Mrs. Alison Shoemaker
Mr. John P. Shoemaker
Thomas W. Shoemaker, VMD
Mr. Gerald B. Shreiber
John C. Simms, VMD
Albert Singer, VMD
Eugene P. Steffey, VMD
Mrs. Bette L. Steinberg
Sheldon A. Steinberg, VMD
William S. Stockman, VMD
Sherry Lee Talowsky, VMD
Eddie L. Tamm, VMD
Mrs. Lynne Lichtenstein Tarnopol
Tarnopol Family Foundation, Inc.
Ms. Amie D. Thornton
Ms. Mary Ann Vierheilg
Ms. Melissa von Stade
Alexandra Wetherill, VMD
Mr. Gary M. Wexler
Mrs. Nina S. Wexler
John C. Widenmeyer, VMD
Franklin K. Wills, VMD
George P. Wilson III, VMD
Mr. Martin E. Winter
Mrs. Pamela Winter
S. J. Woolwich Holzman, VMD
Sarah Zimmerman, VMD

Friends of New Bolton Center

Friends of New Bolton Center Fund assists in continuing to provide routine care, sophisticated diagnostics and our world-renowned treatments for horses and food animals, and to maintain our state-of-the-art facilities. The fund supports

over 6,000 hospital patients and more than 20,000 Field Services patients each year.

Ms. Patricia Adikes-Hill
Adikes Family Foundation
Dr: Patricia A. Assan
Mr: Colin Atkins
Ms. Elizabeth Atterbury
Mrs. Wilhelmina M. Austin
Ayrshire Farm
Mrs. Kathy Biedenbach
Mr: Steve Biedenbach
Dr: & Mrs. John Blenko
Mr. and Mrs. J. M. Bontecou
Ms. Catherine Bray
Ms. Barbara Brungess
Mr: Paul J. Calandra
Mrs. Marcia W. Campbell
Mr: Ross L. Campbell
Mrs. Anna I. Cascio
Mr: Michael J. Cascio
Mrs. Ellen M. Charles
Ms. Ellen L. Cherry
Mr: Harvey A. Coleman
Mr. & Mrs. Steven W. Concannon
Ms. Cornelia Crawford
Mr: Craig Cullen, Jr.
Mrs. Carolyn C. Cullen
Clara L. D. & Jeffery U.W. Charitable
Residuary Trust
Delaware Equine Council
Mr: Bruce K. Davis
Ms. Krissi M. Davis
Ms. Pamela A. Denison
Mr. & Mrs. Matthew D. Devine
Dr: Wendy L. Dixon
Mr. & Mrs. Thomas G. Downs
Carol A. Dolinskas, MD
Mr. and Mrs. Thomas Domencich
Mrs. Henry E. I. duPont
Ms. Sophie Du Pont
Mrs. Chantal Dubeck
Mrs. Helen M. Elkins
William L. Elkins, MD
Andrew H. Elser, VMD
Mr: Henry R. C. Elser
Julie B. Engles, VMD
Ms. Sandra Epstein
Ms. Sharon A. Erickson
Mrs. Christine E. Facciolo
Mr: Frank A. Facciolo
Mr: P. F. N. Fanning
Mrs. Bonnie Feld
Mr: Kenneth J. Feld
Ms. Anne T. Finn
Ms. Audrey Fisher
Barbara D. Forney, VMD
Ms. Marilyn Forney
Dr: Robert C. Forney
Kathleen M. Friedenberg, VMD
Zachary B. Friedenberg, MD
Ms. Katharine Gahagan
Ms. Deborah M. Gardner
William S. Gardner, VMD
Mrs. Helen K. Groves
Ms. Donna J. Gruber
Ms. Judith L. Guise
Mrs. Paula D. Haughey
Mr: Thomas M. Haughey
Mr: Edward G. Healey
Mr. & Mrs. Bruce K. M. Henderson
Mr: Kerry N. Hitt
Mrs. Theodora Hooton
Mrs. Susan D. Hufford
Ms. Heather Irons
Mr: Steven Thomas Irons
Ithan Foundation
Mrs. Ann Lunger Jones
Ms. Hope H. Jones
Ms. Barbara Karol
Mrs. Angela M. Kay
Dr: Thomas Kay
Mr. and Mrs. Robert E. Keith

Britan A. Kilbourne, VMD
Mr: Fred L. Knight
Laurie J. Landeau, VMD
Laurie Landeau Foundation, LLC
Ms. Anne P. Laporte
Ms. Sandy Lerner
Audrey Love Charitable Foundation
Ms. Mary Alice Lucot
Mrs. Jane MacElree
Leigh A. Marsh, VMD
Ms. Catherine McDonnell
Ms. Anna McWane
Ms. Della J. Micah
Mrs. Ellen Moelis
Herbert I. Moelis, Esquire
Ms. Gina B. Muss
Ms. Leslie D. Myrin
Mr: Irvin S. Naylor
Mr: Richard W. Newpher
Mr. and Mrs. Robert O'Brien
Mrs. Roberta Odell
Mrs. Bonnie K. Olie
Ms. Vivian Palmer
Professional Horsemen's Assn.
Mrs. Sharon E. Rhoades
Miss Mary B. Rice
Mrs. Louise Riggio
Riggio Foundation
Ms. Schuyler C. Riley
Dr: Carolyn Carnuth Rizza
Mr: H Paul Ritchie
Ms. Grace E. Ritzenberg
Mr. and Mrs. Donald Ritzenhaler
RME Fund
Ms. Jeannette E. Roach
Charlotte L. Robson, DVM
Mr: Mark Rochkind
Mrs. Patricia W. Rochkind
Dr. and Mrs. Donald J. Rosato
Schwab Charitable Fund
Mr: Mace Siegel
Mr: Mark Simpson
Mrs. Susan D. Simpson
Ms. Joy L. Slater
Dr: Gary Smith
Mr: Martin T. Sosnoff
Max L. Sponseller, VMD
Ms. Kristen G. Stroehmann
Mr: W. B. Dixon Stroud, Jr.
Sun Gard Higher Education
Ms. Jeanne M. F. Swartchild
Mrs. Nancy T. Swayne
Mr. & Mrs. Terrence A. Tobias
Henry J. Te Velde, DVM
Thoroughbred Charities of America
Mrs. Anita L. Ulishney
Jeanne L. Van Nuys-Hitt, VMD
Mr: Cuyler Harriman Walker
Walmoore Holsteins Inc.
Ms. Carol Elizabeth Ware
Laurel Wiegand, MD
Ms. Barbara Williamson
Ms. Betty E. Williford
Willowdale Steeplechase, Inc.
Mr. and Mrs. G. F. Wintersteen
Mr: David A. Wisser

Friends of Ryan Hospital

Gifts to the Friends of Ryan Hospital provide unrestricted funds to invest where they are most needed, including new equipment, technology updates and supplies. Each year, your support helps to maintain our prestigious reputation for excellence in the care for our 30,000+ companion animal patients.

Mr. & Mrs. E. M. Ackley
Mrs. Catherine George Adler
Mr: Frederick R. Adler
The Allen Family Charitable Fund
Judith L. Allison, PhD
Dr: Christopher Anastasiou

Robert J. Ashman, VMD
Ms. Elizabeth Atterbury
Back Mountain Kennel Club, Inc.
Ms. Ruth Bedford
Ms. Patricia M. Bell
Mr: Carmine T. Bello
Ms. Sharon Birk
Ms. Eugenia B. Bishop
Ms. Gladys M. Black
Mr: Michael G. Blanchard
Mrs. Nadine Blanchard
Dr: J. Kent Blasie
Mr. and Mrs. J. M. Bontecou
Ms. Karen Bossert
Ms. Margaret W. Browne
Ms. Linda G. Burka
Mr: Kevin L. Call
Ms. Christine M. Carey
Mr: Adrian A. Castelli
Mr. and Mrs. Joseph M. Clarke
Ms. Reina Cohen
Mrs. Karen L. Conway
Mr: Stephen J. Conway
Ms. Jeanne Coryell
Ms. Sharon L. Costa
Mrs. Carolyn R. Cotter
Mr: John A. Cox
Mrs. Julianne Halpin Cox
Ms. Elizabeth Crawford
Mr: Andy Davidoff
Mr: Thomas C. Deas, Jr.
Ms. Rose Marie A. Deffenbach
Ms. Gladys DiNunzio
Mr: William J. Dixon
Mr. & Mrs. Michael S. Dukart
Ms. Elise Wood duPont, Esquire
The Honorable Pierre S. duPont, IV
Ralph C. Eagle, Jr., MD
Ms. Cheryl L. Eberle
Mr. and Mrs. Norman Edmonson
Edmonson Family Fund
Mr: Steve Elkin
Mr: David K. Erickson
David H. Fortna, VMD
Ms. Susan Gabriel
Mr: Anthony N. Garvan, Jr.
Elber C. Gillespie Trust
Ms. Annette Gittelman
The late Dolores H. Gluck
Mr: Barry Goldblatt
Ms. Lynda Goldschein
Ms. Jayne E. Graham
Mr: James E. Gregg
Mr: Don J. Grinevicius
Alan B. Grosbach, MD
Ms. Myra Grosbach
Mr. & Mrs. Geoff Halfpenny
Mr: Brian Hard
Mrs. Janice M. Hard
Ms. Margaret S. Havens
Mattie J. Hendrick, VMD
Joan C. Hendricks, VMD, PhD
Ms. Mary Herzog
Ms. Susan K. Hollenstein
Ms. Judy L. Hricak
Mr: Anthony Imbesi
Ms. Giovanna Imbesi
Mr: John Imbesi
Mrs. Patricia H. Imbesi
Mrs. Doreen M. Insabella
Mr: John Insabella
Mr: Ed Isaack
Ms. Nancy Jeffries
Mrs. Constance Z. Jenkins
Mr: David A. Jenkins, Esquire
The Honorable Patricia Jenkins
Mrs. Beverly B. Jennings
Mr: Keith S. Jennings
Ms. Shelby Johnson
Jolyn Foundation Inc.
Estate of Gerald J. Katz
Keystone Katz Inc.
Ms. Diane D. Knepper
Mr: James Koch
Mr: Thomas F. Lantry

Mrs. Kathleen Rifkin Lantz
Mr: Paul D. Lantz
Mrs. Marsha Levin
Ms. Karen Lien
Tullia Lindsten, MD, PhD
Ms. Barbara Heyman Lorber
Mr. and Mrs. Kenneth N. Luongo
Larry and Barbara Magid
Corinne Majeska, VMD
Ms. Margaret S. Marsh
Mrs. Margaret T. Martinez
Mr: Oscar R. Martinez
Mr. & Mrs. Francis Mashett
Ms. Susan Master
Mrs. Clara Stevenson McGonigal
Dr: Paul J. McGonigal
Mr: Thomas McKenna
Mr. & Mrs. Tom McKenna
Ms. Maureen P. McKew
Mr: James A. McMillan
Ms. Judith K. McMillan
Ms. Mary Louis Meinholz
Mrs. Marian Mills
Ms. Maryjeannette J. Monihan
Ms. Renee M. Moore
Ms. Andrea Morgan
Mr: John A. Morgan
Mr: Frank J. Morgis
Mrs. Lois W. Morgis
Morrisey Family Foundation
Joseph A. Nebzdoski, VMD
Mrs. Kerry J. Nebzdoski
Mr: Lathrop B. Nelson, Jr.
Mr. & Mrs. Michael Ney
Richard A. Nicklas, MD
Mr: Joseph Norris
Dr: Cynthia M. Otto
Mr. & Mrs. George R. Overhiser
Mr: Joseph W. Pedron
Ms. Jane Pirotin
Ms. Jelena M. Radenkovic
Ms. Patricia A. Reid
Mr. and Mrs. James Renken
Mr: Edward M. Resovsky
Ms. Lori A. Rickard
Hollenstein Ross Foundation
Mrs. Corinne Roxby
Mr: Roger E. Rozsas
Mr: Paul Rucci
Mr: Gregg A. Runyen
Mrs. Terry Runyen
Ms. Elaine M. Rymsza
Mr: Vincent J. Salandria, Esquire
Ms. Linda K. Schleifer
Mr: Dennis L. Schrader
Mrs. Jamee F. Schrader
Mr. and Mrs. John Seifarth
Mr: Brent N. Senseny
Mr. & Mrs. Keith Seritella
Mrs. Donna Seybert
Ms. Janet Sowiak
Mr: Miles W. Stein
Ms. Tawn J. Stokes
Ms. Victoria Swinson
Ms. Sally Thomas
Craig B. Thompson, MD
Mr: Renny E. Thoms
Ms. Kathleen A. Ulman
Thomas J. Van Winkle, VMD
Mr: Joseph R. Viola, Esquire
Mr. and Mrs. Herman K. Voellm
Ms. Stella Volpe
Mr: Cuyler Harriman Walker, Esquire
Mr: Karl T. Walli
Ms. Patti Weiner
Mr: John P. White
Mr: Jerold Wichtel
Mrs. Jill K. Wichtel
Ms. Ann C. Wickliffe
Mr: Arnold Zacharias
Mrs. Ansley B. Zehnder
Mr: Jeffrey S. Zehnder
Mrs. Denice Zucca
Mr: Thomas Zucca

This list reflects giving of \$250 or more during fiscal year 2011 (July 1, 2010 through June 30, 2011). If donors have any questions about this report, they can contact the Development Office at 215-746-7460.

WE SPEAK DUKE

WE ALSO SPEAK GASTRIC DILATATION VOLVULUS



When he's trying to tell you something, you'll do whatever it takes to translate. Our board-certified vets are particularly in tune with four-legged and feathered friends, with a connection that's equal parts unconditional love and unparalleled expertise.

And when it comes to something urgent, our critical care veterinarians are available 24/7, armed with all the life-saving discoveries we've pioneered right here.

Find our ER and easy parking at **39th & Spruce** Streets in Philadelphia.

Getting to the Root of the Problem

A rabbit's persistent dental disease brings owner to Ryan Hospital's Exotic Companion Animal Medicine and Surgery Service for answers

BY ANNAMARIE SARACINO

A vicious cycle...that's the only way I can describe the course of DeWabbit's recurring dental disease," said Gwen Coronway, parent to the disease-prone Holland lop-eared rabbit.

The cycle began in April 2009 when Gwen noticed a fluid-laden puncture forming in DeWabbit's left cheek, which persisted.

"I've been a pet owner for a very long time, and I've never witnessed this type of problem in any of my other four rabbits," said Gwen, who was surprised to learn that dental disease was common to this type of rabbit breed. "DeWabbit never showed any symptoms of discomfort or pain, but the main cause for concern was the fact that he wasn't eating," she said.

DeWabbit's sore persisted and he was losing weight so Gwen sought the help of her primary care veterinarian.

Treating the Symptoms

There, DeWabbit's teeth were trimmed and his abscesses were treated with surgical debridement. An antibiotic and

topical antibiotic cream to prevent further infection were prescribed.

DeWabbit made progress, and, after a few months, had gained back the weight he'd lost.

But in July 2010, the wound reopened, his weight dropped severely and Gwen noticed stark behavior changes.

"I knew something was wrong again when he wasn't eating; he was acting very strangely," said Gwen. "He wasn't hanging around the usual places you would see him in and just seemed to be extremely depressed."

After a return trip to his local vet, DeWabbit was again treated with the same course of fluids and antibiotics.

Surgical Intervention

Six months later, however, his symptoms were back and it was suggested that the rabbit might need surgery.

Post-surgery, De Wabbit was healing nicely until two abscesses appeared on the outside of the rabbit's lower

continued on page 48



Exotic Companion Animal Medicine and Surgery

New leadership in the renamed section makes big plans to better serve patients and students

BY ANNAMARIE SARACINO

Reptiles, birds, ferrets, rabbits and other small companion animals have a new name at Ryan Hospital — Exotic Companion Animals. Formerly, these animals were known as “special species” and owners would make appointments with the Special Species Medicine and Surgery Section. Now, owners and referring vets will be bringing and sending these animals to the Exotic Companion Animal Medicine and Surgery Service.

“We wanted to change the section name to something that was a little more straightforward,” said Nicole Wyre, DVM recently appointed section chief. “We think this new name will speak to everyone who owns these kinds of companion animals and be a little less ambiguous than ‘Special Species.’ And, of course, our clients and their pets will still receive the best level of animal care that they’ve come to expect from our hospital.”

Updating the section name was just one of Dr. Wyre’s first matters of business. She also has big plans for extending appointment hours, recharging the section’s internship and residency programs and adding new leadership to her team.

Increased Availability, Accessibility and Expertise

The Exotic Companion Animal Medicine and Surgery Service is the first at Ryan Hospital to extend appointment hours to seven days a week.

“The main focus in extending daily and weekend hours is client convenience,” said La’Toya Latney, DVM, staff clinician in the service. “If clients are in a pinch, they know where they can take their animal. There is a deficit in the veterinary care community regarding extended hours, especially for these species of animals, and it is up to us to try to accommodate clients and patients.”

These extended hours mean more access for avian and exotic pet owners, but it also means more access to these kinds of pets for all certified veterinary technicians, interns, residents and students at Ryan Hospital, each of

whom will be trained by Dr. Wyre’s team to properly handle and care for these sensitive patients.

“It’s a matter of safety for our staff, and most importantly the animals being handled,” said Dr. Wyre.

In addition, the wider exposure to avian and exotic species will provide an opportunity for students to explore a specialty in this area of veterinary medicine.

Extending Internships and Residencies

The internship program will also become more substantial under Dr. Wyre’s leadership and will include weekly rounds, journal discussions and advanced, hands-on learning of rotations through local aquariums, wildlife institutions and zoos.

“We will be revamping our rounds scheduling to increase our interns’ ability to have hands-on experience working with these species,” said Dr. Wyre, “and we’ll be offering additional learning opportunities through traveling to other hospitals, aquariums, rescue organizations and zoos.”



section leadership


Currently, the Exotic Companion Animal Medicine and Surgery Service includes three full-time specialists, two interns and numerous students.

In addition to bringing two interns, Drs. Colin McDermott and Susan Pello, onboard, a residency program is another of Dr. Wyre's priorities.

The American College of Zoologic Medicine Zoologic Companion Animal Residency will be a three-year program with focuses on avian medicine and surgery, reptile medicine and surgery, small mammals and exotics case studies, all of which will allow for evidence-based approaches to exotic species studies. Dr. Wyre is advocating for this program to be part of the school's core curriculum rather than electives.

"With exotics becoming more popular pets, I feel that every veterinarian and technician should know the basics of handling and treating exotic companion animals," said Dr. Wyre.

This quarter Dr. Wyre is giving lectures to the first-year students in the Introduction to Clinical Veterinary Medicine course and both Dr. Latney and Dr. Wyre will be course leaders for four elective exotic courses for the third-year students, offering early and continuing exposure to working with these species of animals.

"Along with the important research aspect that Dr. Latney is bringing to the table, we will be ahead of the game through being able to apply clinical research and have the ability to advance veterinary medicine," said Dr. Wyre. 



DR. LA'TOYA LATNEY

As far as she can remember, Dr. La'Toya Latney has always been fascinated with reptiles and exotic animals. As a result, Dr. Latney pursued an undergraduate degree in biological sciences from Cornell University, and later attended Ross Veterinary School in New Brunswick, NJ where she earned her DVM. Next was an internship at the Island Exotic Veterinary Care in Huntington Station, NY. In 2008, Dr. Latney joined the special species service as a resident. "I get excited about going into work and witnessing the enthusiasm that clients have for their pets," said Dr. Latney. Dr. Latney is working on her master's in clinical epidemiology and conducting a clinical trial that helps measure reptile pain through the VCIC. Currently, she is on appointments by request, but will be re-joining us full-time after the completion of her degree.



DR. CHRISTOPHER MONTGOMERY

Dr. Christopher Montgomery found his passion for avian and exotic animal medicine while growing up on a farm in Louisiana. "I grew up surrounded by a plethora of animals, and I always wanted to work with the ones that no one really knew anything about," said Dr. Montgomery. After earning his undergraduate degree in biochemistry and zoology at Louisiana State University, Dr. Montgomery spent four years at LSU's School of Veterinary Medicine and then completed an externship at the Baton Rouge Zoo in the Avian and Exotics Program. Next for Dr. Montgomery was a few years in private practice, followed by a Zoo Medicine and Surgery Residency at the Philadelphia Zoo. From there, Dr. Montgomery joined Penn Vet's Ryan Hospital as a staff vet. "It's a constant, daily challenge," said Dr. Montgomery of his work at Ryan Hospital.



DR. NICOLE WYRE

Leading the charge of the service, Dr. Nicole Wyre received her DVM from Virginia-Maryland Regional College of Veterinary Medicine. She then completed the Avian and Exotic Residency Program at New York's Animal Medical Center, after which she joined Penn Vet as a lecturer. After just a few months in that role, however, Dr. Wyre had an opportunity to move to Hong Kong to serve as a consultant at a small animal and exotics practice, which she seized. This spring, because she missed teaching, Dr. Wyre came back to Penn Vet, this time taking the role of section chief in the Exotic Companion Animal Medicine and Surgery Service. "If you teach one person, they can spread the word on to others," she said.

Penn Vet Research

Drug Shrinks Dog Tumors, Could Benefit Humans

BY EVAN LERNER

There are many kinds of cancers of the immune system, but one, Activated B-Cell Diffuse Large B-Cell Lymphoma, or ABC-DLBCL, is particularly common and pernicious.

Researchers at Penn Vet have shown for the first time that dogs that develop this disease spontaneously share the same aberrant activation of a critical intracellular pathway with humans with ABC-DLBCL.

They also found that a drug designed to disrupt this pathway helps to kill tumor cells in the dogs' cancerous lymph nodes.

The research was conducted by Nicola Mason, PhD, assistant professor of medicine at Penn Vet, along with Michael J. May, PhD, associate professor of pharmacology; postdoctoral fellow Anita Gaurnier-Hausser, PhD; and veterinary clinical pathologist Reema Patel, DVM.

Their work was published in the May issue of the journal *Clinical Cancer Research*.

B-cells are the part of the immune system that produce antibodies and protect the body against invading microorganisms. In ABC-DLBCL, the normally tightly regulated intracellular signaling pathway involved in B-cell activation and proliferation is, as the name of the disease suggests, constantly activated.

"This signaling pathway, called NF-kappaB, is critical in immune function; following an encounter with antigen, lymphocytes need to be activated and proliferate so that there are sufficient numbers to deal with the invading organism," Dr.

Mason said. "But in humans with ABC-DLBCL, and also in dogs with spontaneous DLBCL, this pathway is constitutively active and drives lymphocytes to proliferate continuously."

Moreover, these malignant B-cells are resistant to apoptosis, or cell death. Their unchecked growth is the basis of the lymph node tumors that are a hallmark of the disease.

For many years, researchers have been investigating ways of interrupting the malfunctioning pathway that forms the tumors and provides resistance to chemotherapy-induced cell death. In order to test whether a canine model for inhibitors would have relevance to cancer treatment in humans, the Penn team first showed that the same aberrant activation of the NF-kappaB pathway exists in dogs.

They then went on to demonstrate that inhibition of this pathway using a drug known as NEMO Binding Domain, or NBD, peptide led to increased cell death of malignant lymphocytes in a laboratory setting. The next step was to determine whether this peptide could similarly inhibit NF-kappaB activity when used in the dogs with the disease.

Treatment of DLBCL in dogs is similar to humans; in most cases, the cancer initially responds well to chemotherapy, but patients frequently relapse with drug-resistant disease. The five-year survival prognosis for humans with ABC-DLBCL is about 50 percent, but in dogs the survival rate is much worse, with more than 85 percent of dogs relapsing within the first year and the majority succumbing to their disease during the first or second round of rescue chemotherapy.

Having determined the presence of aberrant pathway activity in the dogs with spontaneous DLBCL and that inhibition of this pathway can lead to increased malignant cell death, the researchers performed a small pilot trial to determine the efficacy of the NBD peptide in dogs that had relapsed with drug resistant lymphoma.

The results were encouraging.



Dr. Nicola Mason working in her lab.

“We injected one malignant lymph node with the NBD peptide and followed up with chemotherapy. One week after a single dose of peptide, the lymph node we injected was a lot smaller than the other cancerous lymph nodes,” Dr. Mason said. “This suggests that the peptide either acts alone or synergistically with rescue chemotherapy to kill the tumor cells.”

Testing the peptide in a live animal model, rather than in tumor cells taken from cell lines in a Petri dish, accelerates the prospects of this research leading to clinical treatments for both dogs and humans.

“The identification of a comparable molecular pathogenesis of ABC-DLBCL between dogs and humans, coupled with our ability to investigate the therapeutic benefit of targeting this aberrant NF-kappaB pathway in a clinically relevant, large animal model is a great example of the ‘bench to bedside’ paradigm of translational medicine,” Dr. Mason said. “It’s been over 10 years since this pathway was recognized in ABC-DLBCL in humans; however, this is the first indication that specific inhibition of this pathway may have a beneficial effect in human and canine patients with this disease.”

Dr. Mason and her colleagues are now testing whether the peptide is systemically effective when administered intravenously. Demonstration of safety and therapeutic success in this trial could not only pave the way to a novel approach to the treatment of this disease in pet dogs but also could lead to clinical trials in humans with this type of lymphoma.

The research was supported by the National Institutes of Health, American Cancer Society, Mari Lowe Center for Comparative Oncology and American Kennel Club’s Canine Health Foundation.

RESEARCH BRIEFS

Foundation Fighting Blindness has awarded Penn Vet Professor of Medical Genetics and Ophthalmology **Gustavo D. Aguirre, VMD, PhD** with a \$230,000 grant to continue the Penn Large Animal Model Translational and Research Facility.

David Artis, PhD, associate professor, has received two National Institutes of Health grants (Regulation of protective immunity following enteric viral infection and Regulation and function of innate lymphoid cells).

The National Institutes of Health has granted **Peter J. Felsburg, VMD, PhD** a \$626,059 grant to study gene therapy for canine X-lined SCID.

Dr. Ronald N. Harty, associate professor of microbiology, has been awarded a two-year (July 2011 - June 2013) Developmental Research Grant from the NIH Middle Atlantic Regional Center of Excellence (MARCE) for Biodefense and Emerging Infectious Disease Research. His application was entitled “Novel FLIM-Based Optical Measurements of Filovirus Budding Mechanisms” and was one of four selected for funding

out of a total of 40 applications. Dr. Bruce Freedman, associate professor of pathobiology is a co-primary investigator.

Christopher Hunter, PhD, chairman of the Department of Pathobiology and Tajie Harris, PhD, postdoctoral fellow at Penn Vet, were awarded a National Institutes of Health grant to study the role of chemokines in the T cell response to ocular toxoplasmosis.

Diane J. Gaertner, DVM, professor in the Department of Pathobiology, has been awarded a five-year grant from the National Institutes of Health/National Center for Research Resources for “Translational Research and Laboratory Animal Medicine Education for Veterinarians.”

The United Mitochondrial Disease Foundation (UMDF) has awarded Penn Vet Assistant **Professor Brett A. Kaufman** a \$120,000 grant to study the role that mtDNA copy number control plays in the development of disease. Dr. Kaufman’s grant was also selected for the UMDF Chairman’s Award for the top grant this year.

Dr. Charles Vite, assistant professor, received \$100,000 in funding from the National Niemann-Pick Disease Foundation.

RECENT PUBLICATIONS

Lee Y-H. and Saint-Jeannet J-P. (2011). Cardiac neural crest is dispensable for outflow tract septation in *Xenopus* (2011) *Development* 138: 2025-2034. (Also featured in *Science Daily*, April 23, 2011.)

Okumura, A. and Harty, R.N. Rabies virus assembly and budding. In: *Research Advances in Rabies* (Alan Jackson, Ed.), *Advances in Virus Research*, Elsevier, Vol. 79, pgs 23-32, 2011.

Kuznetsova, T., Zangerl, B., Goldstein, O., Acland, G.M., Aguirre, G.D. Structural organization and expression pattern of the canine RPGRIP1 isoforms in retinal tissue *Invest Ophthalmol Vis Sci* 52:2989-2998, 2011.

Eroshin, V.E., Reiter, A.M., Rosenthal, K., Fordham, M., Latney, L., Brown, S., Lewis, J.R. Oral disease in a population of rescued ferrets: clinical examination findings. *J Vet Dent*, 2011, 28:8-15.

Mark C. Siracusa, Steven A. Saenz, David A. Hill, Brian S. Kim, Mark B. Headley, Travis A. Doering, E. John Wherry, Heidi K. Jessup, Lori A. Siegel, Taku Kambayashi, Emily C. Dudek, Masato Kubo, Antonella Cianferoni, Jonathan M. Spergel, Steven F. Ziegler, Michael R. Comeau and David Artis (2011). “TSLP promotes interleukin-3-independent basophil haematopoiesis and type 2 inflammation.” *Nature*.

Yuliang Liu, Sasha Stone, and Ronald N. Harty, (2011), “Characterization of Filovirus Protein-Protein Interactions in Mammalian Cells Using Bimolecular Complementation,” *Journal of Infectious Diseases*, 204(6) (online August 16).

A Family's Passion

BY COREEN HAGGERTY

Recognizing that “every animal is attached to a person, and every person is an individual with a myriad of vested interests in this animal,” **Judy Shekmar, V’76** wanted to be a veterinarian.

After completing a biology degree at Rosemont College, she took a job with **Theodore V. Yuhas, V’56** first in Ardmore and later after the practice moved to become the Bryn Mawr Veterinary Hospital, in Bryn Mawr, Pennsylvania. Her duties traversed all aspects of running a veterinary hospital from receptionist, surgical assistant, bookkeeper, as well as kennel duties and grooming

“People thought I was crazy for pursuing veterinary medicine when my girlfriends were becoming mothers, nurses and teachers,” she said. “Dr. Yuhas would take me to Penn’s Veterinary Hospital whenever possible for me to watch and learn. **Lilian Giuliani, V’57** also was a huge influence for me at that time.”

Steven Cantner, V’76, conversely, attended Lafayette College and found a path to research first.

“A lot of veterinarians I know knew they wanted to be a vet. I had the desire a bit, growing up in a rural area. I was intrigued by everything around me. College originally swept me up in research, but I soon found it narrow and it bored me. Luckily, Penn has always had a philosophy of fostering a variety of interests.”

One of those interests was Judy, and in the fall of 1972 both Judy and Steve began their professional journey at Penn Vet, and they also found love and each other.

Creating the Legacy

Judy and Steve married after graduation and in January 1979 welcomed the first of four daughters. They soon bought Bryn Mawr Veterinary Hospital and Judy recounts, “In those days, we just figured out what we wanted and did it. Becoming practice owners and parents simultaneously was monumental.”

“I remember that my sisters and I literally grew up in the hospital,” said Caroline, their first daughter. “We used to put stamps on the bills, clean the kennels and sit with the dogs after surgery – the hallway would be lined with dogs and daughters.”

Today, all of the Cantner children have benefited from their parents’ tenacity and enthusiasm. Second daughter Christine achieved a doctorate in psychology; third daughter Kathleen finished a master’s degree in oceanography; and fourth daughter Stephanie is pursuing a career in real estate. But it was first daughter Caroline that caught the veterinary bug.

The Winding Road

Originally, **Caroline Cantner, V11** studied government and sociology at Dartmouth, and planned a career in education policy or law. Caroline completed a two-year stint with AmeriCorps, and then also worked with a Pennsylvania state senator for several years – all while continuing working on the weekends at Bryn Mawr Veterinary Hospital.

continued on page 50

“

“every animal is attached to a person, and every person is an individual with a myriad of vested interests in this animal”

– Judy Shekmar, V’76



Dr. Jill Beech, the Georgia and Philip Hofmann Professor of Medicine at New Bolton Center, retired this summer after 39 years of dedicated service to Penn Vet.

Drs. Ken Drobatz, director of emergency services and professor of critical care, **Urs Giger**, director of the Metabolic Genetics Screening Laboratory; **Meg Sleeper**, chief, section of cardiology, **Nicola Mason**, assistant professor of medicine and pathobiology; **Mark Oyama**, professor, Department of Clinical Studies – Philadelphia; **Erica Reineke**, assistant professor of emergency and critical care; **Deb Silverstein**, assistant professor, Department of Clinical Studies — Philadelphia; and **Charles Vite**, assistant professor, neurology and neurosurgery, were invited to speak the ACVIM Forum in June 2011. At the meeting, Penn Vet residents in small animal internal medicine and cardiology also gave research presentations.

At the annual conference of AVMA in St. Louis this past July, Penn Vet’s Emeritus Professor of Medicine and Medical Genetics **Donald F. Patterson** received the 2011 AVMA Lifetime Excellence in Research Award for his research on hereditary disorders in companion animals and comparative genetics. In addition, **Drs. Meg Sleeper** and **Urs Giger** were invited speakers.

Dr. Urs Giger was invited by the China Agricultural University, China’s Animal Science and Veterinary Medical Associations and Hong Kong’s Veterinary Association to lecture on clinical hematology and genetics in companion animals in Beijing, Urumqi, Shanghai and Hong Kong in July 2011.

Ms. Patricia Hall, development coordinator for New Bolton Center, retired this spring after 18 years of dedicated to service to Penn Vet.



Dr. Urs Giger



Dr. Ronald Harty



Dr. Christopher Hunter



Ms. Jennifer Lucas



Dr. Wilfried Mai

DR. MARK HASKINS

Mark Haskins, VMD, MS, PhD, professor of pathology at Penn Vet, was awarded the first-ever Dean’s Award for Distinguished Service in recognition of his longstanding dedication to the School and his role in educating students, mentoring faculty and advising administrators.

When presenting the award to Dr. Haskins, Dean Joan C. Hendricks said, “[Dr. Haskins’] generous and principled dedication to the profession and to the School are unparalleled. You never hesitate to share your experience, your wise counsel, and your strong advocacy when you



identify a way you can have a positive impact. You are passionate and at the same time scientifically rigorous in your assessment of all sides of a question or issue. Through the years, legions of students have participated in your hands-on care for the dogs and cats with inherited diseases who form the basis for your research program. They have seen for themselves what an impact a caring, compassionate veterinarian can have on the lives of animals — both those who are in the research program and those who benefit from the research.

“While an award cannot be sufficient, it is a pleasure to have the opportunity to express my personal gratitude to you for lending the full force of your personality to improving your School.”

Mr. Barry Haines, director of facilities at New Bolton Center for 33 years, retired this summer after 33 years of dedicated service to Penn Vet.

Dr. Ronald N. Harty, associate professor of microbiology, was invited to serve as lead guest editor of a special issue of the journal *Advances in Virology* on the topic of virus budding/host interactions.

In July, **Dr. Christopher A. Hunter**, chairman of the Department of Pathobiology at Penn Vet, along with Dr. Terri M. Laufer, associate professor of medicine at the Perelman School of Medicine, in conjunction with The American Associate of Immunologists, offered an Introductory Course in Immunology.

Dr. Candace Jacobson, who recently completed her residency in large animal reproduction, successfully passed the certifying examination of the American College of Theriogenologists (ACT) and is now a Diplomate of the ACT.

Ms. Jennifer Lucas has been named director of finance for Ryan Hospital.

Dr. Wilfried Mai has been promoted to associate professor of radiology, Department of Clinical Studies – Philadelphia.



Ms. Rachael Mant

Ms. Rachael Mant has joined the sports medicine and imaging team at New Bolton Center. In this role, Rachael's primary responsibility is working in the Equine Performance Center and Treadmill as a technician.

Dr. Michael May was promoted to associate professor of pharmacology in the Department of Animal Biology.

Mr. Kevin McBride joined Penn Vet as business administrator for Ryan Hospital.

Dr. Kathryn E. Michel has been promoted to professor of nutrition, Department of Clinical Studies – Philadelphia.

Dr. James Orsini, associate professor at New Bolton Center, was named to the International Equine Veterinarians Hall of Fame.

Dr. Cynthia M. Otto, associate professor of critical care and director of the Penn Vet Working Dog Center, was featured in an Animal Planet documentary about the Hero Dogs of 9/11.

Dr. Mark Oyama presented lectures at the Advances in Canine Mitral Valve Disease meeting in Cremona, Italy in Sept 23-24, 2011. The two-day seminar was sponsored by the Italian Companion Animal Veterinary Association, Italian Society of Veterinary Cardiology and the European Society of Veterinary Cardiology. Dr. Oyama was also on the scientific program committee as well as a speaker for the Human and Veterinary Crosstalk Symposium on Cardiology in Bordeaux, France Oct 1-2, 2011 as well as an invited speaker at the World Feline Veterinary Conference in Boston about feline cardiac biomarkers Sept 8-11, 2011. Recently, Dr. Oyama was promoted to professor of cardiology, Department of Clinical Studies – Philadelphia.

Dr. Thomas Parsons, associate professor and director of the Swine Teaching and Research Center at Penn Vet's New Bolton Center, was recently honored by The New York Farmers, Inc. at the group's annual spring dinner in New York City where he was presented with The Farmers Medal for outstanding achievement in agriculture.

Dr. Jean-Pierre Saint-Jeannet was promoted to professor for developmental biology in the Department of Animal Biology.

Dr. Jantra Suran, lecturer of radiology, was selected as the winner of the American College of Veterinary Radiology Resident Author Award this year for her paper titled "Contrast Enhancement of Extradural Compressive Material on Magnetic Resonance Imaging," which was published in the January 2011 issue of the journal *Veterinary Radiology and Ultrasound*.



Dr. Mark Oyama



Dr. Thomas Parsons



Dr. Jean-Pierre Saint-Jeannet

CALL FOR NOMINATIONS

ALUMNI AWARDS of MERIT

Penn Vet is seeking nominations for the 2011 Alumni Award of Merit and other awards for distinguished Penn Vet alumni. Alumni include matriculating graduates, as well as interns, residents and post-doctoral fellows.

To be presented at the Penn Annual Conference in March 2012, these awards are given to alumni that have made outstanding contributions to their profession and to the School. Awards are given annually to recognize distinguished graduates for

their contributions that advance knowledge in biomedicine, promote the welfare of animals through public education of animal owners and benefit society through civic activities that foster the advancement of the profession and the School's good name.

Please forward your nominations to Jillian Marcussen, director of stewardship and special projects, at 215.898.4235 or jillian2@vet.upenn.edu with a statement of support for each candidate.

Worlds Awards continued from page 13

relief around the country. The system, dubbed The Rehabilitation and Emergency COmputerized Veterinary Records (RECOVER) system, will utilize an easy-to-use interface, real-time data entry, and an animal monitoring component that will improve workflow, and have the capability to connect on-the-ground responders with caretakers based elsewhere, outside of the disaster zone. The project is the perfect marriage of Dr. Lustgarten's solid background in innovative technology and growing expertise in veterinary medicine.

The idea for RECOVER was borne from a conversation that Dr. Lustgarten had with Erica Miller, DVM, staff veterinarian for Tri-State Bird Rescue in Delaware. Talking about disaster recovery, Dr. Lustgarten became aware of the tremendous task of in-taking wildlife, treating the animals and then releasing them back into the wild.

"There are thousands of sheets of paper generated per day, making a command control view across various rescue sites difficult, and the management of and understanding following a disaster challenging," said Dr. Lustgarten. "It seemed to me a great opportunity to test out some of the methods that human medicine is using in an environment where there is no prior system, taking advantage of the capabilities of smart phones, tablets and technology."

In addition to the value such a system would offer for record keeping and sharing of information about patients, it can also be used in the field, in real time, to monitor infectious outbreaks.

"This is a first attempt to address the needs of veterinarians at disasters, to have real time information that is correct, and for rescue shelter managers to handle intake/release of animals and supplies at the same time," he said.

The data gathered would also make available a vast amount of information for researchers worldwide.

"My aspiration is to bring veterinary medicine forward from where it is now by incorporating advanced technology," said Dr. Lustgarten. "Human information for translational science can then be incorporated."

As a caveat, Dr. Lustgarten adds that there are many steps before that can actually happen, but he is dedicated to seeing this initiative through.

"This can go almost anywhere," said Dr. Lustgarten. "My goal is that anything that I do lasts beyond me. The nice part is that if I do it right in veterinary medicine, then I have the evidence I need to apply it to human medicine. That's a linear step." ■

112th Penn Annual Conference

EMERGENCY & CRITICAL CARE
March 6, 2012 through March 9, 2012

PennHIP – Tuesday, March 6, 2012
Full Conference – Wednesday and Thursday,
March 7 and 8, 2012
Wet Labs – Friday, March 9, 2012

FULL CONFERENCE AT

**Sheraton Philadelphia
City Center Hotel, Philadelphia, PA**

Come be a part of Penn Vet's annual continuing education conference with access to more than 1,000 practicing animal health care providers of all specialties, in addition to veterinary technicians and students. Enjoy a variety of sponsorships and exhibitor opportunities to allow optimal time and marketing with our participants.



continued from page 39

jaw. It became clear that the rabbit would need surgical debridement and implanted antibiotic beads for continued treatment.

Finding the Underlying Cause

Gwen made a call to Penn Vet's Ryan Hospital and prepared for an appointment with Chris Montgomery, DVM, attending clinician in the Exotic Companion Animal Medicine and Surgery Service in order to consider all available options.

"DeWabbit's case of dental disease was severe, but not uncommon in this type of rabbit," said Dr. Montgomery, who examined the rabbit.

DeWabbit's blood work came back normal, so, in order to pinpoint the exact cause of the painful repeat abscesses, Dr. Montgomery ordered a CT scan, which uncovered the cause: DeWabbit had retained roots in his teeth. To fix the problem, surgery would be necessary.

Under the close attention and care of Nicole Wyre, DVM, chief, Exotic Companion Animal Medicine and Surgery Service, and Jeffrey Runge, DVM lecturer of surgery, DeWabbit received a partial mandibulectomy. His facial abscesses were removed as were the retained mandibular tooth roots. Dr. Runge implanted antibiotic beads to help the rabbit heal post-surgery and, after observation in the ICU through the night, an all-clear for release was granted by Dr. Wyre. DeWabbit went home.

Recovery and Follow-up

A full recovery is expected, but it's possible that DeWabbit's dental disease could spread. As a result, he will need to be routinely examined for the possibility of the disease spreading to the right side of his mouth.

"I have recently come to terms with the fact that DeWabbit will have this disease for the rest of his life, but the quality of his life is very important to me," said Gwen. "I will do everything in my power to make sure he enjoys his." ♣



First Tuesdays Lecture Series

Offered at no charge to horse owners and enthusiasts the first Tuesday of each month at Penn Vet's New Bolton Center.

November 1, 2011

Michelle Abraham, DVM

Managing the high-risk pregnancy: broodmares in the third trimester

December 6, 2011

Joanne Slack, DVM DACVIM

Ultrasound exams in the 21st century

January 3, 2012

Melissa McKinnon, DVM

Bone scans: Nuclear Scintigraphy and your horse

February 7, 2012

Janet Johnson, DVM, DACVIM, DACVS

Colic in 3D – The Glass Horse

March 6, 2012

Suzanne Stewart, DVM

Suspensory ligament disease in the performance horse

April 3, 2012

Louise Southwood DVM, PhD

It's 10 p.m. and my horse isn't right: When is it an emergency?

Though the lectures are free, seating is limited. To reserve a seat, please RSVP to vetpr@vet.upenn.edu. Lectures will be held at New Bolton Center, in the Alumni Hall from 6:30-7:30 pm. This schedule is subject to change. Please check the website for the most current schedule information: <http://www.vet.upenn.edu/FirstTuesdays>.



Penn Vet

New Bolton Center

1940s

Jack Robbins (V'45), the last remaining founding director of the Oak Tree Racing Association in California, stepped down as the organization's president and assumed the chairmanship of the board of directors in May 2011.

1960s

The Class of 1961, under the direction of classmates **Don Abt**, **Don Abrutyn** and **Dick Smalley**, created and produced the *Class of 1961 – 2011 Scalpel*, which was provided to all classmates to celebrate the 50th reunion.

As part of its Good Works For Horses Campaign, the American Association of Equine Practitioners (AAEP) has named **Ron Genovese (V'64)** the July 2011 honoree for helping therapeutic riding horses at Fieldstone Farm Therapeutic Riding Center in Chagrin Falls, Ohio, stay on their feet. About once a month, ailing horses from the clinic are brought to the clinic for diagnostic work-ups and therapy at reduced prices.

1970s

Jean Cunningham Smith (V'70) provided an interview and chapter called "Your Puppy's First Visit to the Vet," in the 2010 book *The Golden Retriever Puppy Handbook*, written by R. Ann Johnson and published by the Darwin Press, Inc.

Lawrence Gerson (V'75), provides veterinary support to the non-profit organization Allegheny Abused Animal Relief Fund (AAARF!), which was formed 10 years ago to provide public funding for medical and other costs associated with the care of abused and neglected animals. With Dr. Gerson serving as the clinical lead, AAARF! approves payment to shelters, veterinarians, rescue groups and individuals who request funding for stray and abused animals to cover costs of care and medical needs on a case-by-case basis.

1980s

Steven W. Atwood (V'80), MD, MPH, MRCVS, received a master of public health (MPH) degree in public health practice from the University of Massachusetts Medical School and School of Public Health on May 13, 2011. His master's thesis was titled "The State of Umbilical Cord Blood Banking, Umbilical Stem Cell Transplantation and Public Health Implications." Dr. Atwood was also recently elected co-chair of the Veterinary Medicine Academy of the National Academies of Practice, an organization of distinguished practitioners representing 10 different healthcare professions, working

together to advance coordinated, accountable, accessible healthcare for all.

The Morris Animal Foundation recently awarded \$64,217 to **Noah Cohen (C'79, V'83)**, MPH, PhD, Dipl. ACVIM, professor at the Texas A&M College of Veterinary Medicine & Biomedical Sciences (CVM) over the period of two years for his research on "Recognizing Age-related Differences in Immune Response of Foals."

Jeff Meyer (V'83), owner of Granville Small Animal Hospital in Middle Granville, New York, along with wife Lynn and the practice staff, has been hailed by clients as a compassionate provider of care to small animals.

A veterinarian who specializes in animals used in biomedical research, **Neil Lipman (V'84)** ensures the welfare of the Memorial Sloan Kettering Center's research animals. As director of the Research Animal Resource Center, he has expanded facilities, technology and services to help Memorial Sloan-Kettering investigators drive their research forward.

Monique Y. Wells (C'81, V'85) is co-founder of Discover Paris! (www.discoverparis.net) and the creator of Entrée to Black Paris™ tours and activities (www.discoverparis.net/african_americans.html). These walks and presentations provide an historical and a contemporary view of the black experience in Paris.

Robert M. Thompson, Jr. (V'85), owner of Lums Pond Animal Hospital in Bear, Delaware, was named the 2010 H. Wesley Towers Veterinarian of the Year by the Delaware Veterinary Medical Association.

Rotary Club of West Orange, New Jersey, of which **Dorie Cappiello (V'86)** serves as past president, works to support college scholarships, provides every third grader in West Orange with a dictionary, funds local summer camps for disabled children, supports the WO First Aid Squad and local food banks as well as many other local community organizations.

Steve Wolfson (V'88), now retired from his position as university veterinarian at Arizona State University, volunteers his time at the Humane Society of New York in New York City.

1990s

Michael R. Moyer (V'90) assumed the 2011-2012 American Animal Hospital Association presidency during the joint AAHA/Ontario VMA conference in Toronto in March 2011. In addition, Dr. Moyer was honored in September 2011 with the Delaware County SPCA Animal Welfare Leadership Award.

continued from page 44

Thinking that medicine might be a next step, she enrolled in the post-baccalaureate program at Bryn Mawr College. During this time, it was through volunteering at the Thorncroft Riding Center in Malvern, Pennsylvania that her parent's legacy of veterinary medicine came alive in her.

"The riding center reinforced the amazing interaction between animals and people," she said.


With the flexibility of Penn Vet's alternative track, Caroline applied to Penn Vet, her parents' alma mater. "What's great about the open (student) admissions is that people come from a variety of backgrounds and career tracks. Many have a lot of life experience."

Four years later, in May of 2011, Judy Shekmar, V'76 and Steven Cantner, V'76, presented their first daughter

with her diploma at Penn Vet's 2011 Commencement exercises and she joined them as a Veterinariae Medicinae Doctoris.

Having It All, Doing It All

Judy and Steve are immensely proud of the profession they found separately, and the life they found together.

Judy recounts, "Steve and I have had exceptional veterinary careers and have managed to combine our love of veterinary medicine with our love of children and family. We feel very loyal to Penn and proud of our education and the life-long relationships, which we established through veterinary medicine." 



PennVet

animal lovers

LECTURE SERIES



NOVEMBER 5, 2011
First Aid for Your Pet
Hill Pavilion

DECEMBER 6, 2011
Caring for Older Pets
Penn Medicine, Radnor, PA

Visit www.vet.upenn.edu for more information or call Michelle Brooks at 215-898-1480 to register.

Jaime V. Modiano (V'91, GR'91), laboratory principal investigator at University of Minnesota, discovered a gene pattern that distinguishes the more severe form of bone cancer from a less aggressive form in dogs. Dogs are the only other species besides humans that frequently and spontaneously develop this disease. The study was funded by the National Cancer Institute, the AKC Canine Health Foundation and the Kate Koogler Canine Cancer Fund.

Lisa Cawley (V'92) opened the Christmas City Veterinary Hospital in Bethlehem, Pennsylvania in June 2011.

Jennifer MacLeod (V'99), DACVS of the Veterinary Specialty and Emergency Center in Langhorne, Pennsylvania completed surgery on a three-month-old piglet that was hit by a car, which required several pins and a screw implanted into her fore-limb. **Christopher Keefe (V'97)**, handled the post-operative care of Charlotte the pig at Creek's Edge Animal Hospital in Hainesport, Pennsylvania.

Anna Marie Lange (V'99) of Berlin, Maryland, opened a veterinary house-call service, A. Lange Integrative Veterinary Medicine, LLC, in March 2011, which integrates western and eastern medicine.

Ellen Wiedner (V'99) is a staff veterinarian at the Los Angeles Zoo and Botanical Gardens.

2000s

Mathieu Glassman (V'04) DACVS recently joined the Friendship Hospital for Animals in Washington, DC as Chief Surgeon. The hospital has gained attention for recently waiving the surgical bill through its donation-based fund of a US marine whose four-year-old pit bull sustained a traumatic leg injury. Dr. Glassman had

performed five hours of ankle stabilization surgery using a new device, vacuum assisted closure.

Karen O'Connor (V'04) married Bart Knoch on March 4, 2011.

Mary K. Coughlin (V'05) who works at Perkiomen Animal Hospital in Palm, Pennsylvania, was the winner in a drawing called "Win a Cold Laser for your Alma Mater" by Companion Therapy Laser at the NAVC Conference in January 2011. Subsequently, Ryan Hospital received a companion class IV therapy laser in June 2011. Thank you, Dr. Coughlin!

Kirk Breuninger (V'10), who served as class president and vice-president for SCAVMA while at Penn Vet, is applying to the Peace Corps to volunteer for an animal husbandry mission, the goal of which is to enhance farm families' nutrition and household income through better land-use and management techniques in developing countries. Kirk also is the recipient of the 2009 George B. Wolff Legislative Leadership Award from the Pennsylvania Veterinary Medical Association.

Thomas Nebzydoski (V'10) returned to Pennsylvania from a one-year internship in farm animal medicine and training at the Ohio State University to join his father, **Henry Nebzydoski (V'72)** and sister **Beth Spinelli (V'02)** in a mixed-animal veterinary practice in Pleasant Mount at the Carbondale Veterinary Hospital.

deaths

- 1936 **Leonard H. Sherman** on June 23, 2011.
- 1944 **Bernard Zackon** on October 3, 2009.
- 1949 **Arthur Fulton Morrison** on May 16, 2011.
- 1949 **Norma B. Menghetti** on August 19, 2011.
- 1954 **Norman Dale Heidelbaugh** on January 28, 2011.
- 1955 **Elmer H. Lerner** on June 27, 2011.
- 1961 **Peter Laffan** on April 8, 2011.
- 1982 **Stephen Woodard** on January 13, 2011.
- 1992 **Stephanie Marie Imperatore** on May 14, 2011.

Have you received a promotion, gotten married, had a baby or received an award? Have you volunteered somewhere special, moved into a new building, ventured into a new business or discovered the cure for avian flu? Please share with us all of your good news to include in the CLASS NOTES section of the *Bellwether* and the vet.upenn.edu website. All residents, interns and fellows are also invited to share!

Forward all alumni news to Jillian Marcussen, director of stewardship and special projects, at jillian2@vet.upenn.edu or write Office of Alumni Relations, 3800 Spruce Street, Suite 172 E, Philadelphia, PA 19104.



Mixed Sources
Product group from well-managed
forests and other controlled sources
Cert no. SIF-COC-1530
www.fsc.org
© 1996 Forest Stewardship Council

Penn Vet is proud to print *Bellwether* magazine on FSC (Forest Stewardship Council) certified paper, which supports the growth of responsible forest management worldwide through its international standards.

OCTOBER 2011

October 19, 2011

Wednesday Exchange, bi-monthly professional education opportunity for primary care veterinarians
“Pediatrics and Vaccine Protocols”
Ryan Hospital, Philadelphia, PA
Presented by Dr. Magi Casal, Medical Genetics

October 20 and 21, 2011

Equine Reproduction and Behavior Short Courses
“Just Stallion Handling”
New Bolton Center, Kennett Square, PA

October 28 and 31, 2011

Equine Reproduction and Behavior Short Courses
“Mare and Foal Care and Behavior”
New Bolton Center, Kennett Square, PA

NOVEMBER 2011

November 1, 2011

First Tuesday Lecture Series, a free educational lecture series for horse owners and horse enthusiasts
“Managing the High-Risk Pregnancy: Broodmares in the Third Trimester”
New Bolton Center (Alumni Hall) – Kennett Square, PA – 6:30pm
Presented by Dr. Michelle Abraham, Internal Medicine

November 3 and 4, 2011

Equine Reproduction and Behavior Short Courses
“Horse Behavior”
New Bolton Center, Kennett Square, PA

November 5, 2011

Animal Lovers Lecture Series, a free educational lecture series for small animal owners
“Emergency Medicine”
Penn Vet, Vernon and Shirley Hill Pavilion, Philadelphia, PA – 10:00am
Presented by Dr. Deborah Mandell, Staff Criticalist

November 11, 2011

Equine Reproduction and Behavior Short Courses
“Broodmare 101”
New Bolton Center, Kennett Square, PA

Monday, November 21, 2011

American Association of Equine Practitioners Annual Convention
Alumni Reception – Monday, November 21 – 6:00pm-8:00pm
Grand Hyatt San Antonio, San Antonio, TX

DECEMBER 2011

December 6, 2011

Animal Lovers Lecture Series, a free educational lecture series for small animal owners
“Caring for Older Pets: Healthcare Advice on Geriatric and End-of-life Issues”
Penn Medicine, Radnor, PA – 6:30pm
Presented by Dr. Meryl Littman, Associate Professor of Medicine

December 6, 2011

First Tuesday Lecture Series, a free educational lecture series for horse owners and horse enthusiasts
“Ultrasound Exams in the 21st Century”
New Bolton Center (Alumni Hall) – Kennett Square, PA – 6:30pm
Presented by Dr. Joanne Slack, Sports Medicine & Imaging

December 14, 2011

Wednesday Exchange, bi-monthly professional education opportunity for primary care veterinarians
“Approach to the Icteric Cat”
Ryan Veterinary Hospital, Philadelphia, PA
Presented by Dr. Mark Rondeau, Internal Medicine

JANUARY 2011

January 3, 2012

First Tuesday Lecture Series, a free educational lecture series for horse owners and horse enthusiasts
“Bone Scans: Nuclear Scintigraphy and Your Horse”
New Bolton Center (Alumni Hall) – Kennett Square, PA – 6:30pm
Presented by Dr. Melissa MacKinnon, Surgery

January 6-14, 2012

Pennsylvania Farm Show
PA Farm Show Complex and Expo Center
North Cameron and Maclay Streets, Harrisburg, PA