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In Memory of Speaker Matthew J. Ryan

Recently I attended two very moving services in memory of Matthew J. Ryan, Speaker of the Pennsylvania House of Representatives. The first was held at St. Mary Magdalen Church in Media on April 8, the day after his body lay in state in the Capitol Rotunda in Harrisburg. Matt is the first person to be so honored since Abraham Lincoln in 1865. The service was attended by over one hundred and fifty members of the General Assembly and by Governor Rendell and three past Commonwealth governors including Homeland Security Secretary Tom Ridge. The second service was in the magnificent Chamber of the House of Representatives in the State Capitol on April 14, a stone’s throw from the architecturally distinguished Speaker Matthew J. Ryan Legislative Office Building, a tribute by his colleagues in every branch of State Government.

I am delighted to report that Matt’s name will now grace the facade of yet another building, one perhaps as close to his heart as the one on Capitol Hill. Last February, the University Trustees resolved that VHUP be renamed as the Matthew J. Ryan Veterinary Hospital of the University of Pennsylvania. This is the first time a building on the Penn campus has been named for a state politician since Benjamin Franklin.

Why was Matt Ryan honored in such an remarkable way and why did we change the name of the small animal hospital? At both memorial services, the tributes were uniform in their outpouring of love and respect for Matt, he was revered by everyone on both sides of the aisle and his skills in leadership in the House are the stuff of legend. Matt loved the House of Representatives and did everything in his power to see that legislation was passed that brought the greatest benefit to the citizens of Pennsylvania. He was a brilliant leader with a steady finger on the pulse of the legislative agenda, he had an mischievous Irish wit and, despite his enormous power in Harrisburg, was among the most humble men you could ever wish to meet.

Sometimes, when I needed advice, I would call and ask him out for lunch. Matt’s favorite place was a rather seedy little café near his home, the University law office, where he would always have a chicken salad sandwich. Lunch never cost more than $5.00 and was fascinating as he shared advice that involved millions of dollars.

Matt loved the School and he loved his black Labrador, Magic; he probably would have been happiest if we had renamed VHUP as Magic’s Hospital but this name could be too easily taken amiss. Matt was a humanist who cared deeply about the people of Pennsylvania and he readily understood that veterinary medicine was of enormous importance to the Commonwealth’s number one industry, agriculture. He was very proud of the School and supported it in every way he could during more than three decades of leadership. Our current pre-eminence in veterinary medicine is a testament to Matt’s unwavering support.

The University community, in expressing its admiration and affection for Matt Ryan, is honored to have his name associated with its Veterinary Hospital, an institution dedicated to serving the people of Pennsylvania, Matt’s people. We cherish his memory and miss him enormously.

Alan M. Kelly
The Gilbert S. Kahn Dean of Veterinary Medicine

Ralph Brinster a recipient of the 2002-03 Wolf Prize in Medicine

Dr. Ralph L. Brinster, V’60, Richard King Mellon Professor of Reproductive Physiology at the School, has been selected as a recipient of the 2002-03 Wolf Prize in Medicine. The Wolf Prize Jury cited him “for the development of procedures to manipulate mouse ova and embryos, which has enabled transgenesis and its applications in mice.” Dr. Brinster shares the prize with two other scientists, Dr. Oliver Smithies of the University of North Carolina, and Dr. Mario R. Capecchi, of the University of Utah. The three researchers were honored for developing techniques “for introducing and modifying individual genes within mouse eggs and embryos” stated the prize jury.

Dr. Brinster, a veterinarian, developed a culture system to maintain mouse and other mammalian eggs in vitro and he identified many fundamental characteristics of egg culture. This was essential for the generation of transgenic animals. Dr. Brinster first showed that it was possible to colonize a mouse blastocyst with stem cells from older embryos. He was the first scientist to microinject fertilized eggs with RNA and was a pioneer in the field in applying these microinjection methods to generate transgenic mice.

The consul general of Israel in Philadelphia, Giora Becher, presents the official letter about the Wolf Prize to Dr. Brinster.

The Wolf Foundation was established in Israel by the late Dr. Ricardo Wolf who served as Cuba’s ambassador to Israel. The Wolf Prize in Medicine has been awarded since 1978 “for achievements in the interest of mankind and friendly relations among peoples, irrespective of nationality, race, color, religion, sex, or political view.” There is also a prize in agriculture, chemistry, mathematics, physics and the arts. The 2002-03 Wolf Prizes will be conferred by the Israeli President Moshe Katsav at a special ceremony at the Knesset in Jerusalem on May 11, 2003.
Teaching and Research Building News

Plans for the School of Veterinary Medicine’s new $51 million Teaching and Research Building were approved last fall by the University’s Board of Trustees. More than $43 million has been raised to date. The architectural firm of Polshek Partnership Architects, LLP of New York, in collaboration with Ballinger of Philadelphia, has been selected to design the building. Polshek-designed buildings include new and renovated space for Columbia, Cornell, Stanford and Yale.

The building will provide state-of-the-art teaching and learning spaces, replacing the antiquated facilities currently in use. Among the areas of investigation in the new building will be infectious diseases, a major reemerging threat to animal and human health; animal transgenesis and germ cell research, an exciting biomedical research area that promises healthier and more productive food animals; comparative medical genetics; and comparative oncology.

According to Veterinary School Dean Alan M. Kelly, “The facilities will enable the School to attract and retain the new generation of research and clinical scientists who will train the veterinarians for the new century. Clinicians and basic researchers will work side by side, and students will be exposed to groundbreaking research.”

Marking the largest commitment to the building by a Veterinary School graduate to date, an alumnus who wishes to be anonymous has made a pledge of $600,000. As gifts of all sizes to the new building will sustain Penn’s preeminence in veterinary medicine, a special “Reserve a Seat” campaign to raise $780,000 was kicked off successfully last fall.

More than 125 of the School’s faculty and staff responded enthusiastically and “reserved” a seat for $3,000 each in the building’s two, 130-seat classrooms. Remaining seats are being offered to alumni and friends this spring to leave their legacy.

Veterinary School Buildings in Philadelphia

- Quadrangle Building
  1907

- Gladys Hall Rosenthal Building
  1963

- Matthew J. Ryan Veterinary Hospital of the University of Pennsylvania
  1981

- Site of Teaching & Research Building Planned Groundbreaking
  2003

The Teaching and Research Building site is bounded by University, Woodland and Baltimore Avenues.
Alzheimer’s Protein Jams Mitochondria of Affected Cells

by Stephen Bradt

Opening a new front in the battle against Alzheimer’s disease, scientists at the School have found that a protein long associated with the disease inflicts grave damage in a previously unimagined way: It seals off mitochondria in affected neurons, resulting in an “energy crisis” and buildup of toxins that causes cells to die. This pathway, the first specific biochemical explanation for pathologies associated with Alzheimer’s, was detailed in the April 14 issue of the Journal of Cell Biology.

While the normal function of the amyloid precursor protein (APP) remains unknown, senior author Dr. Narayan G. Avadhani and his colleagues have determined that a mere 50-amino-acid stretch of the protein wreaks havoc by essentially starving mitochondria and the cells they nourish.

“We found that when APP leaves the nucleus, it can be directed both to mitochondria and to the endoplasmic reticulum,” said Avadhani, Harriet Ellison Woodward Professor of Biochemistry and chair of the Department of Animal Biology in the School. “APP has an acidic, negatively charged region that causes it to jam irreversibly while traversing protein transport channels in the mitochondrial membrane. This hampers, and eventually completely blocks, mitochondria’s ability to import other proteins and produce cellular energy.”

As if suffocating the cell’s power plant weren’t enough, jammed APP proteins also damaged the mouse neurons studied by Avadhani and co-author Dr. Hindupur K. Anandatheerthavarada in a second way. The end of the protein left dangling outside the mitochondrion contains a toxic product called A-Beta. The researchers found that this toxin, a known component of the brain plaques and A-Beta, is inaccessible to enzymes that might normally degrade them — cellular function is steadily and inevitably reduced until cell death.

The results are consistent with the progressive nature of Alzheimer’s and other neurodegenerative diseases, the scientists said. As pores in the mitochondrial membrane clog with proteins — inaccessible to enzymes that might normally degrade them — cellular function is steadily and inevitably reduced until cell death.

The implications of mitochondrial failure are unexpected because most Alzheimer’s researchers, believing the mitochondrion was not on APP’s itinerary, have focused on the protein’s effects on other organelles. In fact, Avadhani and Anandatheerthavarada found that mitochondria appear to be the only organelles whose membranes have trouble handling APP.

It remains unclear whether APP gets stuck in mitochondria’s protein entryways because of its negative charge or bulkiness attributable to improper protein folding. Avadhani and Anandatheerthavarada plan to study the question, which could eventually yield medications to correct the problem.

“A mutant version of APP without the region that’s prone to jamming passes into the mitochondria without a hitch,” Avadhani said. “This suggests that pharmaceuticals could be developed to fix this domain, either by neutralizing its charge or folding it more tightly.”

Avadhani and Anandatheerthavarada were joined in this research by Dr. Gopa Biswas and Mary-Anne Robin, both of the School’s Department of Animal Biology. Their work was funded by the National Institutes of Health.

Construction of State-of-the-art Operating Room at New Bolton Center

New Bolton Center’s unique orthopedic surgical facility with its pool recovery system is undergoing a $2 million renovation and expansion. A new, state-of-the-art operating room for large animals will be constructed in the C. Mahlon Kline Orthopedic and Rehabilitation Center adjacent to the current operating room. That will be refurbished and will be used for minor surgeries and bandage changes. An additional recovery stall will be built adjacent to the recovery pool used for horses emerging from anesthesia.

The pool will be altered slightly by the removal of the ramp.

While the Kline Center renovations are under way, equine orthopedic surgeries will be handled in an operating suite in another building. Patients will be recovered from anesthesia in a stall.

It is anticipated that the renovation and expansion of the orthopedic surgical facilities will be completed by the end of the summer of 2003.
Carriage Drive and Gala

Carriage buffs will come to the Philadelphia area the weekend of June 13, 14 and 15 for drives and a gala sponsored by A Weekend in Old Saratoga, a group of carriage enthusiasts that has raised funds for a number of causes. This year, instead of going to Saratoga, N.Y., the group has decided to come to Philadelphia for A Weekend in Old Philadelphia and focus the fund raising efforts on two area institutions, New Bolton Center and the Devon Horse Show Foundation.

The weekend kicks off with a country drive and luncheon in the Radnor Hunt area on June 13. Saturday, June 14, “An Afternoon in the Park,” the famous Thomas Eakins painting of Fairman Rogers driving his four-in-hand comes to life in Fairmount Park in Philadelphia. The carriages, many antique, assemble at Lemon Hill in Fairmount Park for a drive at 10:30 a.m. along the Kelly Drive to the Falls Bride. The carriages will cross the Schuylkill River here and return through the western part of the park to Center City and back to Lemon Hill by 3:30 p.m. The First City Troop, the nation’s oldest cavalry unit, will accompany the carriages. It is splendid opportunity to see yesteryear’s transportation – superb horses and beautiful carriages – driven and occupied by people in their “Sunday best” which includes top hats for the gentlemen and beautiful hats for the ladies.

Fairman Rogers had close ties to the University of Pennsylvania, he graduated Phi Beta Kappa in 1853 and served on the University’s Board of Trustees from 1871 to 1876, and was also a member of the special trustees committee that recommended the establishment of a veterinary department in 1884. As an accomplished horseman and

Bernice Barbour Foundation Scholarship

The Bernice Barbour Foundation has awarded a full tuition and living expenses scholarship to Amanda Parton, V’06. This scholarship, which also includes funding during an internship after graduation, is the largest ever received by a student at the School.

The Bernice Barbour Foundation was established in 1986 by the late Bernice Babour who, throughout her life, devoted much of her thought, energy and resources toward making the lives of animals happier and healthier. The Foundation has supported projects involving animals ranging from marine mammals to birds and burros. The scholarship at Penn is the third at a veterinary school.

Amanda Parton, since childhood, wanted to be a veterinarian. She graduated with honors from Lafayette College in 1998 and worked for three years for Merck and Co., Inc. in vaccine operations. While in college and at Merck, Amanda volunteered at veterinary hospitals.

Now, in addition to her heavy course load, she still finds time to work as a nursing assistant at the School’s Ryan Veterinary Hospital. She is also active in various student organizations. Amanda is very intrigued by the interaction between people and animals. Specifically, she is interested in search and rescue animals, and animal therapy for Alzheimer’s patients and the disabled. Ultimately, her goal is to pursue a residency and board certification in a specialty area of veterinary medicine.

“I am in awe of the generosity of the Bernice Barbour Foundation. The financial burden of veterinary school is quite stressful. This scholarship will allow me to focus even more on my education and will open new doors of opportunity as the financial burden has been lifted. So far, my experience at Penn has been amazing. I look forward to the future and the chance to take full advantage of this gift from the Bernice Barbour Foundation as I follow my dream.”
Chronic Pain – A Veterinary Frontier

Many of Ryan Veterinary Hospital’s postsurgical patients wear patches on their rumps, sticky plasters that slowly release painkillers into the animal’s bloodstream through the skin. The animals appear to be calm and comfortable. They don’t fret, pant or whine. “We manage acute pain, such as post-operative pain, very well,” says Dr. Dorothy Brown, assistant professor of surgery. “But we are not so adept at managing chronic pain in our patients.” Veterinary medicine is paying increased attention to the management of chronic pain as animals are living longer, just like people. And they have the same kinds of ailments such as arthritis, disk disease, cancer and other ailments.

“Owners ask veterinarians to treat chronic pain in their pets,” says Brown. “We have a limited number of drugs at our disposal and we are just learning how to manage chronic pain in pets.” Painkillers can generally be divided into two categories, opiates and non-steroids. “In essence, painkillers either come from the poppy or tree bark,” says Brown. “The products on the market are all derivatives of these ancient ingredients. People have manipulated the properties of the poppy and aspirin and have developed a multitude of products. Some are helpful to our patients, others are lethal because animals metabolize these substances differently.”

To manage pain in animals is difficult. They can’t verbally communicate that they are in pain or where they hurt. Often signs that an animal is in pain are subtle and it takes a very observant owner to pick up these frequently slight behavior changes. And sometimes a slowing down is assumed to be due to advancing age and not pain. It is the owner who assumes, by the pet’s changed behavior, that it is in pain. The veterinarian then has to decide what kind of pain it is – acute or chronic and how severe it is. “We have to rely on the owners for information,” says Brown. “They have to tell us about behavioral changes and from that we have to decide what we are dealing with. It is difficult, particularly in chronic pain cases. The owner’s idea of severe may be different from the veterinarian’s notion of severe. We don’t have behavior based chronic pain scales for dogs or other pets.”

Such pain scales exist in human medicine and they are used with great frequency. Many hospitals regard pain as the fifth vital sign, similar to blood pressure, pulse, temperature and respiratory rate, and have institutionalized pain assessment. This is particularly important with patients who do not communicate well. In human medicine it is known that chronic pain is frequently undertreated; this may be due to patients’ reluctance to seek medical help, to resignation of living with pain, or to physicians’ hesitation to prescribe a stronger medication.

“We don’t know whether chronic pain is undertreated in veterinary medicine,” says Brown. “We have to rely on the owner to tell us whether the animal is more comfortable after being given pain medication. We don’t know whether we have maximum pain relief because the animal can’t tell us and we have no behavior based pain scales for animals.”

Dr. Brown is exploring the development of such pain scales for dogs. She is conducting a study of dogs with bone cancer. This disease also occurs in humans and the stages of pain severity as the disease progresses to the end-stage are known. The cancer presents the same histologic picture, whether the tumor sample comes from a human or a dog. It affects the same population – primarily large males, and can have a similar age of onset in both species.

Brown is treating her canine patients with an experimental pain killer and the owners report on their animal’s response to the drug, whether they perceive the pain as being relieved and to what extent. Brown has developed several questionnaires with the help of Dr. John Farrar from Penn’s School of Medicine. Owners complete it by answering questions about the dog’s behavior and the amount of pain they feel the animal is experiencing prior to and after administration of the drug. Brown hopes that this year-long study will yield better information on chronic pain in canines and point to a way to manage it. It may also aid in the development of chronic pain scales.

“There is no specific marker for pain that we know,” Brown says. “Certain values, such as cortisol, go up when an animal is in pain. But they also go up when an animal is stressed. If you anesthetize two animals, spay one, do nothing to the other, both will have the same stress markers even though the one that experienced the surgery may have pain. So we are dependent on observation. This is where behavioral pain scales come in. They would enable the veterinarian to better tailor pain killing drugs to the patient.”

The study is not yet completed and it will take many months of work to evaluate the questionnaires. One thing is clear, there is a need for objective evaluation of chronic pain. “When I contacted referring veterinarians for leads on probable cases, I was overwhelmed by the response,” says Brown. “There is a great need to learn more about chronic pain in pets and how to manage it. We are just at the beginning.”

Teaching Garden at New Bolton Center

In April, ground was broken for a teaching garden at New Bolton Center. The garden will contain toxic and poisonous plants and is established in cooperation with the Penn State Cooperative Extension. Penn State’s Chester County master gardeners have designed and are installing the garden. This is the only garden of this type in the mid-Atlantic region.

“The garden will serve as an important teaching tool,” says Dr. Robert Poppenga, associate professor of pathobiology. “It brings together, in one spot, as many plants of veterinary concern as possible. This makes it much easier for our students to observe the plants at various stages of growth for identification purposes. It also allows the planting of some plants that are not native to the area.”

“The garden will contain plants potentially poisonous to animals such as cattle and horses,” says Mr. Thomas Bare, lead master gardener on this project. “We plan to eventually have growing here at least 30 species of plants that can sicken or poison these large domestic animals. The plants, some of medicinal interest, will be displayed in attractive beds so that students and other interested people can examine and identify them in a natural growing environment.” Craig Rybinski, a master gardener, designed the garden and planned the construction phases.
Collaboration Between Vet School and School of Social Work Takes Off

By Katherine Kruger

At first glance, a collaboration between a School of Veterinary Medicine and a School of Social Work may seem unlikely, perhaps even unnecessary. Not so at Penn, where one of the Vet School’s multidisciplinary research centers – the Center for the Interaction of Animals and Society (CIAS) – focuses its attention on the study of human-animal relationships. In fact, collaboration between the two schools was first established almost 20 years ago. Now, Dr. James A. Serpell, director of the CIAS, wants to enhance this link because of the unique knowledge and skills that social workers can bring to the study of human-animal interactions.

It’s been just over a year since Symme Trachtenberg, MSW, LSW, director of Community Education at The Children’s Hospital of Philadelphia (CHOP), signed-on to be the liaison between the two schools, and the relationship is already in full bloom. As of this printing, there are five collaborators from the School of Social Work who are actively contributing to the work of the CIAS.

Current projects underway include the creation of an educational program called, “Kids Caring for Pets,” that teaches children about the responsibilities of adopting and caring for pets. This program – developed by Ryan Veterinary Hospital staff members Dr. Stephen Mehler, intern; Sally Powell, Critical Care/ES nursing supervisor; and Alison Seward, behavior technician – is currently being piloted at the new Sadie Alexander University of Pennsylvania Partnership School and other schools in West Philadelphia. Since November, the Kids Caring for Pets Program has visited four schools and done ten presentations. Hundreds of children have participated, and preliminary data suggest that the program is having a positive impact on students’ understanding of what it takes to keep pets happy and healthy.

The social work group is also collaborating with CHOP to evaluate its animal visitation program, known as PAW Partners. This program, which provides opportunities for children and their families to interact with visiting animals, has been well received and is highly successful, and the social work group hopes to take a more objective look at its benefits. Dr. Kinnevy and Ms. Levinthal are studying the link between child abuse and animal abuse. They are also using diagnosis codes from the Vet School’s patient database to map clusters of companion animal disease within the city. This information will be used to target educational and community outreach efforts.

If you would like additional information on the collaboration between the Schools of Veterinary Medicine and Social Work, or you know of a school that would like to host the “Kids Caring for Pets” educational program, please contact Ms. Kathy Kruger at 215-746-0096, or kkruger@vet.upenn.edu. Alternatively, you can learn more about the work of the CIAS by visiting: www.vet.upenn.edu/ResearchCenters/CIAS/

New DNA-based Test for Inherited Disease in Schipperkes

Researchers at the School have developed a new DNA-based test for an inherited disease in the schipperke, a breed of dog. The disease, mucopolysaccharidosis type IIIB (MPS IIIB, also known as Sanfilippo syndrome, type IIIB), is an autosomal recessive disease that is classified as a lysosomal storage disease. Other better-known lysosomal storage diseases that occur in humans include Tay-Sachs disease and Gaucher disease.

This is the first time that MPS IIIB has been diagnosed in any companion animal. The symptoms of MPS IIIB in the schipperke are caused by serious and progressive damage to the brain and include tremors, stumbling, and falling. Symptoms in the dog first appear at two to three years of age. The brain disease progresses until the dogs are no longer able to stand, walk, eat, drink, or eliminate without assistance, and owners have had to elect euthanasia for their pets one to two years after the onset of symptoms.

This DNA-based test is the latest in over a dozen different mutation-specific DNA-based tests for inherited disorders offered or developed by the researchers in the Section of Medical Genetics at the School.

The initial schipperke case came to the attention of Penn researchers in late 1998, when Dr. Urs Giger and colleagues in the Section of Medical Genetics at the School identified MPS IIIB in a dog in samples that had been submitted for analysis to the School’s metabolic genetic screening laboratory. Since then other dogs have also been studied in the breed. The identification of the mutation and development of the test was performed by Dr. N. Matthew Ellinwood, a post-doctoral fellow in comparative medical genetics. The DNA testing of schipperkes for the MPS IIIB mutation will be conducted through the School’s Josephine Deubler Genetic Disease Testing Laboratory.

“As devastating as this disease is, we are fortunate that we can help eradicate the condition through testing that identifies animals that are affected or are carriers,” says Ellinwood. “This allows breeders to eliminate affected animals from their breeding program and mate carriers only to animals that do not carry the disease. Eventually the schipperke breeders, using this test, will be able to eliminate this disease in the breed.”

“Unfortunately, the mutations in humans are so rare, and so varied, that it is not practical to test people routinely, nor are there routine and effective ways to screen newborns children for the disease.

“One of the most devastating things is that in some families the eldest child in a family, diagnosed at 3-5 years of age, may have younger siblings who also have the disease but have not yet started to have symptoms, so that parents will confront more than one devastating diagnosis. Finding effective ways to treat this (continued on page 9)
West Nile Virus Infection in Horses

by Jonathan Palmer, V.M.D., DACVIM, Associate Professor of Medicine

West Nile Virus (WNV) primarily causes disease in birds and is usually spread by mosquitoes but it occasionally causes disease in horses. Horses become infected with WNV by the bite of a mosquito which previously (at least six to ten days earlier) fed on a bird infected with WNV. Infection does not always cause clinical disease in horses. When horses have clinical signs, the disease can be very serious. There were 738 clinically affected horses reported in the United States in 2001 and over 14,000 reported in 40 states in 2002. Pennsylvania had 97 equine cases in 2002.

Horses with West Nile Virus can have a variety of clinical signs. They may have a mild flu-like syndrome with fever, depression, listlessness, and occasionally somnolence. When fever occurs it may be biphasic with the early fever associated with mild flu-like signs and a second fever a week later associated with the onset of more serious neurologic signs. Many cases never develop a fever. Some cases will develop local muscle contractions and an unusual muscle twitching. They may show more serious neurologic signs including incoordination and ataxia (stumbling), circling, aimless wandering, head pressing, and hyperexcitability followed by convulsions, coma, and death. In some outbreaks a progressive hind limb paresis (incoordination, ataxia, stumbling) progressing to complete hind limb paralysis (inability to rise behind) and finally front leg involvement is reported as typical. Simultaneously, brain signs will be progressive (depression, somnolence or hyperexcitability, convulsions, coma). Death may occur within hours or after 5 to 10 days of development of serious signs in up to a third of the cases. Survivors will recover with the most dramatic improvement within three weeks.

West Nile Virus is primarily transmitted between birds by mosquitoes. Occasionally virus-carrying mosquitoes will bite mammals exposing them. Based on recent experimental inoculations carried out on horses, horses are not involved in the transmission cycle of WNV. That is, horses are terminal hosts because they do not maintain a sufficient viremia (presence of virus in the blood) to infect mosquitoes or other mammals. Previous studies in horses support this conclusion. This means that infected horses will not transmit WNV to other horses or to people. So an infected horse is not a threat to other horses in contact with it and people cannot contract West Nile Fever by caring for an infected horse. However, special care should be taken when handling blood, spinal fluid, or nervous tissue from suspect animals since these may contain virus.

The virus is introduced into an area through infected birds. Some infected birds develop neurologic signs such as loss of coordination, tremors, abnormal head posture, circling, convulsions followed by death. The appearance of dead birds in an area may be an early warning that the virus is present. When handling dead birds that may have died from WNV infection, care should be taken. There is no evidence that people can catch this disease from dead birds, but the Centers for Disease Control and Prevention recommends that no one should ever touch any dead animal bare-handed. Call your local health department for proper procedures for handling of dead birds.

How can horses be protected from WNV infection if the virus enters the area? One key is mosquito control to stop the bird-mosquito infection cycle. The primary mosquito carrier transmitting the disease to horses has not been identified. Over 30 species of mosquitoes have been found positive for WNV. A frequently identified species is *Culex*. This mosquito spends its entire life within a range of about 1000 yards. Thus local control can be very effective in stopping WNV transmission by this mosquito. With all mosquito species, the most effective method of mosquito control is to destroy the mosquito larval habitat. *Culex* mosquitoes can breed in any puddle that lasts more than four days. So it is important to reduce the amount of standing water available for breeding such as water troughs (should be cleaned at least once or twice a week), water buckets not in use, plastic wading pools, bird baths, wheelbarrows, clogged roof gutters, discarded tires, tin cans, plastic containers, ceramic pots or any water-holding container.

Although less effective than preventing mosquito breeding, it is advisable to make efforts to limit the horse's exposure to adult mosquitoes. Because different mosquito species have different feeding preferences and we are unsure which mosquito species transmits the disease to horses, specific stabiling recommendations cannot be made. One recent study suggested that horses stabled at night are less frequently affected by the virus, so nighttime stabiling maybe helpful. Also, insect repellent approved for horses can be used (always follow label instructions), but insect repellent should not be used as the sole control method.

Another key to prevention is vaccination. A conditionally licensed WNV vaccine is available. Conditional licensing means that the product has been shown to be safe, pure, and have a reasonable expectation of efficacy in preventing illness caused by WNV. Widespread use of this vaccine over the past year suggests that it is safe but its efficacy in preventing disease from WNV remains unproven.

Recent Gifts of Note

An anonymous faculty member has made a $100,000 gift to the Department of Clinical Studies-Philadelphia to establish an endowment to fund basic research projects by clinical faculty. A gift of $100,000 for the Teaching and Research Building has been made by Louis DeNaples. The Montgomery County Kennel Club contributed to the Josephine Deubler bridge in the Teaching and Research Building and to the Josephine Deubler Genetic Disease Testing Laboratory. The Devon Dog Show Association made a gift to the Ryan Veterinary Hospital. The Gerald B. Shreiber Foundation made a gift of $15,000 to the Special Species Clinic in appreciation of the care Mr. Shreiber’s pet “Goose-Goose” received. The funds will be used to purchase a special endoscope for sole use in the Special Species Clinic.
Laparoscopy to Enhance Chance of Pregnancy in Goats and Sheep
by Regina Turner, V.M.D., Ph.D., V89

New Bolton Center has acquired a laparoscope for the use in embryo transfer and insemination of sheep and goats. Dr. Regina Turner, assistant professor of reproduction at New Bolton Center, explains the benefits of the new instrument.

Laparoscopic artificial insemination in sheep and goats currently is the preferred method for breeding these small ruminants with frozen-thawed semen. Using the laparoscope, semen is deposited directly into the uterine horn, thus placing the sperm in close proximity to the site of fertilization. This increases the chances for pregnancy, particularly when dealing with small numbers of sperm (as is the case with frozen semen).

Before an animal can undergo this procedure, her estrous cycle must be synchronized with hormones. This allows ovulation to be very exactly timed. At around the time of ovulation, the procedure is performed. The ewe may or may not be sedated and a local anesthetic is injected at the surgical site. The ewe then is suspended by her hind legs in a specially-designed cradle. This position helps to insure that the rumen and intestines are not in the way of the surgery. A small incision (usually less than a centimeter) is made through the animal’s body wall and into her abdomen. The laparoscope is inserted through the cut. The uterus and ovaries generally are easy to see through the laparoscope. Once the reproductive tract has been identified, a second, similar incision is made into the abdomen and a small insemination instrument containing the semen is passed through the cut. The surgeon then can watch through the laparoscope and guide the insemination instrument to the uterus where a small needle at the end of the insemination instrument is used to puncture into the uterus. Semen then is injected directly into the uterine lumen. The instruments are withdrawn and the small holes are closed with one suture each. In the hands of an experienced surgeon, the entire procedure can take less than 10 minutes. Most ewes stand as soon as they are released from the cradle and suffer no after effects. As with any surgical technique, there can be complications. But these are rare and usually are minor.

Pregnancy rates vary depending on the breed, the season and the semen quality. Highly fertile ewes under excellent management and bred in season can experience pregnancy rates as high as 80%, although more typical ranges are from 40 to 70% in season. These kinds of pregnancy rates make this procedure very practical for valuable animals and open up the possibility of using imported frozen semen from some of the most valuable males in the world.

Another assisted reproductive technique that is gaining in popularity with small ruminant breeders is embryo transfer. Embryo transfer greatly increases the potential number of offspring that a single, valuable female can produce in a year. This can be of great economic benefit to producers and also can help propagate valuable genetics on the female side. For this procedure, the donor animal’s estrous cycle and the estrous cycle of a group of recipient (surrogate) females are synchronized hormonally. Additionally, the donor animal is given hormones that make her ovulate a very large number of eggs (sometimes more than 10 each cycle).

The donor is bred either naturally or laparoscopically at a set time. Several days after the breeding, the donor ewe is placed under anesthesia. A surgical incision is made in her abdomen and her uterus is exteriorized. A small incision is made in the uterus and a tube is threaded into the uterine lumen. Flush media is injected through the catheter and collected. Hopefully, this media rinses the embryos out of the uterus. The media is searched under a microscope and embryos are identified. The incision is sutured closed and the ewe recovers from the anesthetic. Any resulting embryos can be frozen for long term storage or they can be immediately transferred into a synchronized recipient.

For the actual embryo transfer, the recipient ewe is sedated and an appropriate number of embryos are placed into her uterus with the help of the laparoscope. The recipient ewe then carries the pregnancy for the donor ewe. As many as 15 embryos can be recovered from a single flush, although more typically the number ranges between 5 and 10. Actual success rates depend on the breed, the time of year, the quality of the semen and the management of the donor and recipient animals.

New DNA-based Test for Inherited Disease in Schipperkes
(continued from page 7)

rare disorder are going to be challenging and we hope that by studying the disease in the dog, we will be able to make the progress that these children and families hope for.”

Dr. Ellinwood, who has judged working hunting dogs, presented his findings at the beginning of April to a meeting of schipperke enthusiasts at this year’s annual National Specialty Show of the Schipperke Club of America, in Dallas, Texas. “I am really very pleased to be able to have a part in helping to improve the health of these dogs, by allowing the breeders to use the power of a DNA test to end forever a terrible disease.” Unfortunately, children with this rare disease and their families still wait for developments in research that may bring promise of an effective treatment. Helping to eliminate this disease from this dog breed was the “easy part,” says Ellinwood.

The researchers benefited from the knowledge gained in the field of human medicine and genetics. It took human medical science over thirty years to understand the genetic basis of this disease, from the time the syndrome was first identified in 1963, until 1996, when DNA mutations could be identified in people. Using this knowledge the researchers at Penn were able to identify the mutation in the schipperkes in a relatively short period of time.

The research on the disease-causing mutation in the schipperkes was funded by a grant from the National MPS Society awarded to Dr. Mark Haskins, professor of pathology, in an effort to make progress in understanding MPS IIIB and to help in developing treatments for children with this disease. The incidence of MPS IIIB in the human population is approximately one in every 73,000 live births. The condition in children first appears as delayed development in early childhood, and progresses through childhood with severe mental deterioration leading to dementia. The disease is ultimately fatal, with most children dying in their teenage years. At the present time, there is no treatment that has been proven effective. To learn more about this and similar diseases in children, visit the National MPS Society's web site at <www.mpssociety.org>.
Dr. Kathryn Michel, assistant professor of nutrition and chief, Section of Medicine, was honored by the American College of Veterinary Emergency and Critical Care with an Award for Scientific Achievement for contributions in critical care nutrition. She shares this award with Lisa Freeman of Tufts School of Veterinary Medicine.

Dr. Gerhard Schad, professor of parasitology, was elected Honorary Member of the Helminthological Society of Washington in October. He chaired a symposium on the molecular and neurobiology of parasitic nematodes and gave a paper on the same subject at the meeting of the American Society of Tropical Medicine and Hygiene in Denver in November.

Dr. Sue McDonnell, associate professor of reproduction, is the author of A Practical Field Guide to Horse Behavior: The Equid Ethogram, published by Eclipse Press. The book is based on studies of equid behavior under natural and feral conditions. It includes the work of many Penn veterinary students and alumni on behavior in NBC’s semi-feral pony herd (Elizabeth Ewaskiewicz, V’98, Michael Fugaro, V’97, Melissa Lutz, V’99, Samantha Murray, V’01, Amy E. Poulin, V’04).

Dr. McDonnell was a speaker on behavioral topics at the AAEP meeting in Orlando in December.

Dr. Eric Birs, assistant professor of sports medicine, received a grant from Equatec, Inc. in support of his study on inhaled nitric oxide.

Dr. Mike Ross, professor of surgery, is co-author with Sue J. Dyson of Diagnosis and Management of Lameness in the Horse, published W.W. Saunders. This comprehensive text book consists of 130 chapters divided into ten parts and comes with an integral CD-ROM that allows the reader to see video clips of a variety of the conditions referred to in its pages. While it is a detailed text book that any equine specialist will find very useful, it is also a book that may have its uses as a reference work for any horse-owner, trainer or stable manager.

Dr. David Nunamaker, V’68, Jacques Jenny Professor of Surgery, presented the Milne State of the Art Lecture at the AAEP meeting in December in Orlando. He presented two topics: On Bucked Shins, and On Bone and Fracture Treatment in the Horse. Dr. Nunamaker is the seventh person selected to give the Milne Lecture.

Three faculty members were promoted to full professor: Dr. Robert J. Washabau, V’82, to professor of medicine, Dr. Mattie J. Hendrick, V’78, to professor of pathology, and Dr. James Ferguson, V’81, to professor of medicine.

Dr. Pamela Wilkins, assistant professor of medicine, presented a paper at the AAEP Meeting in Orlando entitled, Botulism in Foals: A Survivable Disease. Dr. Wilkins and Dr. Brett Dolente, V’96, instructor in medicine, received a $30,000 three-year grant from the American College of Veterinary Internal Medicine Research Foundation to study the effect of low molecular weight heparin treatment in horses with diarrhea and disseminated intravascular coagulation.

Dr. Adrian R. Morrison, professor of behavioral neuroscience, delivered an invited lecture in March at the Congress of the Federation of Latin American Sleep Societies in Mexico.

Dr. Corinne Sweeney, professor of medicine, current president of the American Association of Veterinary Clinicians (AAVC), hosted the organization’s annual Department Heads & Hospital Directors meeting on the Penn campus in March 2003. The mission of the AAVC is to enhance the quality of and be an advocate for veterinary clinical teaching, service, and research. The AAVC administers the Internship and Residency Matching Program. Dr. Sweeney in 2003 was named a National Academies of Practice Distinguished Practitioner.

Dr. Charles Benson, professor of microbiology, Dr. Gary Smith, professor of population biology and epidemiology, and Dr. Helen Aceto, V’97, made presentations on rapid diagnostic/detection systems at the 2003 Penn Annual Conference in the session, “Agroterrorism and Biosecurity of the Food Supply.”

Dr. Benson was an invited participant at a conference, “The future faces of Institutional Biosafety Committees: Evolving roles and responsibilities, upcoming challenges and opportunities,” sponsored by the NIH Office of Biotechnology Activities, NIH Office of Laboratory Animal Welfare, American Biological Safety Association and Applied Research Ethics National Association in San Diego in February 2003. Dr. Benson presented these topics: Special issues with transgenic animals, IBC’s, and Institutional Animal Care and Use committees and Effective organizational models: reporting, structure, staffing, responsible officials and more.

In March 2003, Dr. Benson gave a talk at the Philadelphia Society for Promoting Agriculture meeting.

Dr. Craig Clifford, resident in oncology, recently received a grant from the Winn Feline Foundation for a project entitled “Plasma vascular endothelial growth factor (VEGF) concentrations and tumor VEGF expression in cats with vaccine associated sarcomas (VAS).” Co-investigators include Drs. Karin Sorenmo and Ken Drobatz. Dr. Clifford presented talks at the Iams Imaging Symposium in April and at the AAHA Symposium in March in Phoenix.

Dr. Gary Smith wrote, produced and directed a pantomime in the British style called “Aladdin and his Magical Lamp.” It played to rapturous applause (alright, a few people clapped) for three nights in January. Dr. Smith also gave a talk on agroterrorism to the New York Farmers Club at the Union Club in New York City in February.

Dr. James Serpell, Marie A. Moore Associate Professor of Humane Ethics and Animal Welfare, received a grant of $34,000 from the AKC Canine Health Foundation to help with the development of new methods for measuring behavior and behavioral problems in dogs. Together with Symme Trachtenberg of The Children’s Hospital of Philadelphia and the School of Social Work, he has also been offered a grant of $96,664 from the Annenberg Foundation’s Sunnylands Trust for a new initiative to explore the potential of animal-assisted therapeutic interventions in the treatment of adolescent mental disorders. Some of these funds will be used to support a major conference on the topic in March 2004.

Dr. Robert Eckroade, associate professor of pathology, presented a paper at the National Poultry Improvement Plan (NPIP) Avian Influenza Workshop held at the PDRC in Athens, Ga. in November. Dr. Eckroade was appointed to the USDA’s task force on Exotic Newcastle Disease and traveled to California in

Rosettes & Ribbons

Some recent accomplishments of note at the school:

- Dr. Benson's presentation at the conference on the future faces of Institutional Biosafety Committees
- Dr. Clifford's research project on plasma VEGF in cats
- Dr. Smith's pantomime performance of "Aladdin and his Magical Lamp"
- Dr. Serpell's grant from the AKC Canine Health Foundation
- Dr. Eckroade's appointment to the USDA task force on Exotic Newcastle Disease

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November 2003
Dr. Margret Casal, assistant professor of medical genetics, and Dr. Paula Henthorn, associate professor of medical genetics, received a grant renewal from the AKC Canine Health Foundation for their study, Cricopharyngeal Dysphagia in the Golden Retriever. Dr. Casal also received a five-year grant from the NIH/NIAMS for her study, A canine model for human X-linked ectodermal dysplasia.

Dr. Jill Beech, V’72, Georgia E. and Philip B. Hofmann Professor in Equine Medicine and Reproduction, presented a lecture on equine myopathies at the 5th Meeting of Flemish Horse Practitioners in Ghent, Belgium, last year. Dr. Beech gave a talk, Comparison of Hormonise® (Vitex castus agnus extract) and pergolide in treatment of Equine Cushing’s Syndrome, at the AAEP meeting in Orlando in December. She gave a talk, Medical Problems of Performance Horses, at “Meet the Veterinary Experts” horse health symposium at the Jockey Club, Palm Beach Equestrian Club, in West Palm Beach in February. In September, she presented a lecture, Inherited Neurological Diseases, Equine Protozoal Myeloencephalitis, at the International meeting of the European Society of Veterinary Neurology, held in Philadelphia.

Dr. Gail Smith, V’74, professor of surgery, is on leave as chair of the Department of Clinical Studies-Philadelphia through June to oversee the transitioning of PennHIP back to Penn. A PennHIP seminar was held in association with the 2003 Penn Annual Conference in January. PennHIP seminars will also be held in conjunction with the AVMA meeting in July and the ACVS meeting in October. Since the program returned to Penn, utilization of the screening method has increased markedly. Dr. Smith presented talks at the 2nd Annual National Detector Dog Training Conference in December, the North American Veterinary Conference in January, and Western Veterinary Conference and the Veterinary Orthopaedic Society in February.

Dr. Michelle Powers, PennHIP fellow, and William Culp, V’04, gave presentations at the Veterinary Orthopedic Society meeting in Steamboat Springs, Colo., in February.

Dr. Joan Hendricks, V’79, Henry and Corrine R. Bower Professor of Small Animal Medicine, is serving as Interim Chair, Clinical Studies-Philadelphia, until June 30.

Dr. Brett Dolente, V’96, instructor in medicine, received funding from AVMA Foundation and Bernice Barbour Foundation to begin a clinical trial using a novel heparin in horses with coagulopathies. She presented a talk at the 2003 Camelid Conference at Oregon State University in March on critically ill camelid neonates and hepatic lipodisosis.

Dr. Amy J. Alwood, resident in critical care, and her collaborators, Drs. Lori Waddell, Cynthia Otto, Kim Slensky of Penn and Dr. Marjorie Brooks of Cornell, were awarded a Winn Feline Foundation Research Grant. The grant of $15,000 under Winn’s Ricky Fund is for the investigation of the effects of low molecular weight heparins on coagulation in normal cats. This is expected to provide the basis for future clinical applications and use of low molecular weight heparins in cats with cardiomypathy and/or saddle thrombus (aortic thromboembolism).

Marsha Finkelman, Ellen Lomastro, Larry Nann, Wendy Curtis-Uhle, and Bethanne Walters, all veterinary technicians specializing in anesthesia, either at the Ryan Veterinary Hospital or at the Widener Hospital, were members of the Academy of Veterinary Technician Anesthetists organizing committee, and were among the first group of technicians who were officially granted certification as Veterinary Technician Specialists in Anesthesia.

Check-ups for pets

Spring is an excellent time to review the vaccination status of pets. Puppies and kittens need to have complete sets of puppy and kitten shots; young animals need their adult boosters; and adults need their booster shots too. Check with your veterinarian about the proper vaccination regimen for your dog and cat. Spring is also the time for a heartworm check for the dog – again, your veterinarian can perform the blood test and provide the preventive medication to keep the pet heartworm-free. To protect your pet against flea and tick bites, consult your veterinarian about monthly flea and tick preventives. Your veterinarian knows your cat or dog and is the best source for such preventives.

Scholarships

The Penn Treaty Kennel Club Scholarship was awarded to Dana Clarke, V’06. Brett Begely, V’03 is the recipient of the Clifford R. Wright, Jr. Scholarship. The Richard A. Dorr, Jr. Memorial Scholarship was awarded to Lisa Berstine, V’03. Daniel Kirsch, V’06 received the Philip E. Potter Foundation Scholarship. Rebecca Kensinger, V’03 received the Hart Clinics Proficiency (IDEXX) Scholarship. Emily Jones, V’05 was awarded a scholarship by the Nestlé Purina Pet Care Company.
The White Coat Ceremony, a tradition from medical schools and first introduced in 2001 at Penn Veterinary Medicine, was held for the Class of 2004 in Houston Hall on December 10, 2002. A Penn landmark, Houston Hall was the nation’s first student union, and it was recently renovated to continue to serve students.

Many relatives and guests of the students attended the ceremony and the reception that followed. The ceremony marks the end of the students’ training in the classroom, and the beginning of their clinical rotations where they will apply the knowledge they have learned during the first two-and-a half-years of their four-year veterinary education.

Speakers included faculty members, Karen O’Connor, V’04, class president, John I. Enck, Jr., V’70, president of the Pennsylvania Veterinary Medical Association and the state veterinarian for Pennsylvania, and Christine Bohn, V’02, who spoke on behalf of the School’s Veterinary Medical Alumni Society. Russell E. Angstadt, V’76, spoke on “The Family: Sharing Commitment.” His daughter, Ellen, is a member of the Class of 2004.

Sponsors of the ceremony included the Pennsylvania Veterinary Medical Association and the Suburban Veterinary Medical Association. The Veterinary Medical Alumni Society gave the students Penn brass pins to wear on their white coats.

2002 Rush Shippen Huidekoper Society Photo Correction

Because of an editing error, the complete caption was not published for this photo from the 2002 Rush Shippen Huidekoper Society Dinner, published in the winter 2002 issue of Bellwether. The photo with the complete caption is below.

Class of 2006 Opportunity Scholarship Recipients and Donors/Mentors:


The Office of Development and Alumni Relations hosted two filled-to-capacity alumni and donor appreciation events: the Rush Shippen Huidekoper Society Breakfast and a Pacesetter and Class Agent Luncheon.

The Conference gratefully acknowledged the financial support of educational program sponsors, DVM Pharmaceuticals, Hill’s, Iams, Nestlé Purina, and Schering-Plough. The School also sincerely thanked the patron exhibitors and standard exhibitors who financially supported the Conference by selling out the main exhibit hall and a newly-added second exhibit hall that accommodated a waiting list of exhibitors.

SAVE THE DATE

**2003 Penn Annual Conference**

Not even a snowstorm could prevent the country’s oldest continuing education conference for veterinarians and veterinary technicians, the 103rd Penn Annual Conference, held on January 29-30, 2003, at the Adam’s Mark Hotel in Philadelphia, from attracting 650 veterinarians and 160 veterinary technicians. In addition, more than 375 of the School’s faculty, staff, and fourth-year students attended.

Internationally recognized speakers addressed a wide range of topics to veterinarians in the Companion Animal, Equine, and Food Animal sessions. Some of the areas covered this year in the companion animal medicine seminars included immunology, diabetes mellitus, reproduction, dermatology, and avian and reptile critical care. Large animal practitioners chose from several topics that included equine conditions of the small intestine causing colic, agroterrorism, and field application of CPM-Dairy. Companion animal technicians had a specialized two-day seminar that covered systemic inflammatory response syndrome, drug-nutrient interactions in enterally fed patients, and preanesthesia nursing management. Many sessions were standing room only.

The first day concluded with a well-attended Dean’s Reception hosted by Dean Alan Kelly.

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**New Bolton’s Radiology Goes Digital**

New Bolton Center’s radiology suite has a new look. Instead of prominent view boxes there are large computer monitors. In the big room where the radiographs are taken, a small cabinet with a computer on top sits to the side. It contains a rectangular piece, 9 by 11 inches, that is tethered to the computer. This flat-panel digital detector replaces the traditional film. The new equipment was made possible by a $500,000 bequest from the Estate of Elizabeth Ernst Fosbinder, wife of the late Dr. Russell J. Fosbinder.

When an animal is x-rayed, the detector is placed where the film cassette would have been, the head of the x-ray equipment is positioned and then turned on. The detector generates the image from the radiation received. The image is transmitted to the computer where it is stored. It can be viewed almost instantaneously (within about 3.5 seconds). There is no more waiting for the film to be developed, no more clustering around view boxes, as the image can be called up on any computer in the radiology suite and by any clinician in an office.

Images are stored on a special secure server and are backed up automatically. Students are trained in the interpretation of digital radiographs as well as traditional films. This new equipment expands diagnostic and teaching modalities at New Bolton.

“The DR system is particularly useful for assuring that the positioning of a radiograph is appropriate. It has greatly reduced the number of times horses need to be re-sedated if a view might need to be repeated. Digital radiographs are also rarely overexposed or underexposed which also largely eliminates the need to repeat views. The ability to review radiographs immediately by double clicking on a name rather than pulling numerous films out of a folder has been wonderful,” says Dr. Alexia McKnight, lecturer in radiology at New Bolton Center.

At this time, the detector is only large enough for imaging of limbs. Radiologists are hoping to acquire a larger detector so that digital radiographs can be taken of skulls and other large body parts, but this equipment is extremely expensive and such a plate, at this time, is not yet available.

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**New Bolton Center’s Radiology Goes Digital**

Dr. David K. Detweiler, V’42, Dr. Ralph L. Brinster, V’60, Dr. Robert R. Marshak.

Fourth-Year Students

Educational Session

Exhibit Hall

Huidekoper Society Breakfast and a Pacesetter and Class Agent Luncheon.

The Conference gratefully acknowledged the financial support of educational program sponsors, DVM Pharmaceuticals, Hill’s, Iams, Nestlé Purina, and Schering-Plough. The School also sincerely thanked the patron exhibitors and standard exhibitors who financially supported the Conference by selling out the main exhibit hall and a newly-added second exhibit hall that accommodated a waiting list of exhibitors.

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**SAVE THE DATE**

The **104th Penn Annual Conference** is scheduled for March 11-12, 2004 at the Adam’s Mark Hotel in Philadelphia. Please bookmark the web site, <http://alumni.vet.upenn.edu/pennannualconference.htm>, and check your mail in the winter for the 2004 Penn Annual Conference brochure.
Entrepreneurship Drives Veterinarian  

by Joan Capuzzi Giresi, C'86 V'98

He owns a wildly-successful veterinary practice, one of the largest privately-owned ones in the country. But Anthony J. DeCarlo, V'82, is hardly complacent. “I wake up every morning and tell myself I have the worst hospital in the country,” says DeCarlo, who, with partner and classmate Thomas S. Trotter, V'82, owns and operates Red Bank Veterinary Hospital, a specialty referral practice in Red Bank, N.J.

This DeCarlo-brand pep talk, he says, spurs him to make constant improvements in his hospital. Like novel medical protocols, better equipment, a new 58,000-square-foot building complete with a 150-seat lecture hall, 2,400-square-foot pharmacy, fitness room and daycare facility that they will relo- cate to next year, plus staff education initiatives and fresh hires. For example, DeCarlo recently augmented his staff of 180 with client-service coordinators, whose chief function is to filter about the waiting room, where they modulate the traffic flow, provide updates to owners, and dole out coffee and conversation.

He also leans on his employees to act as change agents: “I tell my staff, ‘Every time you go to the dentist’s office or grocery store, take all the things you like and practice them here.’”

DeCarlo has banished phrases like “We’re too busy,” “I don’t know,” “We don’t do that” and “That’s not our policy.”

An admitted meeting fiend, he participates in most staff brainstorming sessions. At his regular management meetings, he keeps the focus on serving the patients and their owners. While he allows his supervisors plenty of leeway in making decisions, each of their proposed initiatives has to satisfy DeCarlo’s do-or-die question: “How does that make it better for the client?”

He eschews many practices that predominate today in veterinary medicine, such as ordering automatic complete blood counts on every pet over six years of age, charging for euthanasias, and overvaccinating. Red Bank began offering vaccine titer five years ago in order to eliminate unnecessary vaccination, and discourages the use of vaccines that are ancillary or of question- able safety/efficacy. He says his clients are often delightfully surprised that products and services are not being pushed on them.

In an effort to stay as recession-proof as possible, Red Bank offers neither boarding nor grooming, and tenders little in the way of pet products. DeCarlo, who laments that “veterinarians try to make money today and not 10 years from now,” has opted for a more client-centered and long-sighted operations strategy.

For example, he stayed the course with his evening emergency service, even though it incurred losses in its first six years. Ultimately, it produced net gains by bolstering the daytime business and providing the 24-hour service his clients desired.

DeCarlo, who has never taken a business course and does not use practice consultants, netted much of his business acumen as an adolescent in his family’s printing business. Born in Passaic, N.J., he grew up just minutes from the George Washington Bridge. His lower-income family found financial stability in the printing company his father started when young Tony was in grade school. He worked there during his school years, learning about sales and negotiations, employee issues and union dealings.

DeCarlo began college as a philosophy major, but floundered academically. Unsure of his career interests and feeling pressure to eventually take over the family business, he sought counsel from a friend. She suggested that he set out to do that which he liked reading about; at work, he often picked up books about medicine and animals. So he began volunteering at Oradell Animal Hospital in Oradell, N.J., and set his sights on veterinary medicine, which also held for him the allure of a challenge. After several false starts, he graduated a biology major from Ramapo College of New Jersey in Mahwah, N.J., at the age of 25.

With persistence, DeCarlo beat the odds – 12:1 at the time – and eventually was accepted to Penn’s veterinary school, where he served as class president for four years and student gov- ernment president for two. After graduation, he completed an internship at Oradell, and returned to Penn to do a residency in neurology. He had become enamored of the specialty, he says, because it allows “a lot of room for thinking, and everything is not always black and white.”

And neither is starting a veterinary hospital. Shortly after finishing his residency, DeCarlo returned to New Jersey, where, by pure serendipity, he ran into former classmate Trotter. The two set out to open a practice together. After some creative cajoling, DeCarlo was able to convince a bank to provide 100 percent financing for their hospital, which began offering 24/7 service out of a tiny, dilapidated building. That was 17 years ago.

Today, after almost two decades of 25 percent average annual growth, Red Bank grosses over $15 million a year. This ranks it in the top twenty largest veterinary practices nationwide. The hospital’s 35,000 active clients, not including referrals – the bulk of its business, are scattered across a portly circumference that stretches from upstate New York to Virginia, east-central Pennsylvania to the Atlantic Ocean. Red Bank employs nearly 40 veterinarians – two thirds of whom are specialists in neurology, oncology, ophthalmology, internal medicine, dermatology, cardiology and orthopedics – and has internship and residency programs.

Due to his successful career, DeCarlo was invited to share his professional experiences and advice with current veterinary students at Penn as part of the Dean’s Alumni Career Speaker Series this past January. According to Dean Alan M. Kelly, DeCarlo helped to “educate students on the opportunities and challenges facing them after they graduate.” When he hires recent graduates, DeCarlo, who stopped seeing patients two years ago to focus on the growing demands of running the business operations, seeks those who “know how to intellectually approach a case.” He adds: “I don’t care if they know how to do a spay.”

DeCarlo, 52, acknowledges he has hit on a winning business formula. However, he hopes that the inevitable growth can be maintained at a steady rate. He says his biggest challenge is to run a mega-practice with the intimacy of a two-person shop. He relies heavily on his employees to supply the personal touch to his clientele.

(continued on page 21)
Living a Dream in Zululand

by Margaret Hiza Ardington, V’73

If Timbuktu, the city in the West African nation of Mali, sounds remote from Philadelphia, Mandeni, Zululand on the east coast of South Africa is even further. That’s where I’ve been living and working in a rural mixed practice with my husband, Peter, since 1975 when we settled on Cranburn, his family’s sugarcane and cattle farm. I met Peter, a native South African, when he served as an intern and resident in bovine medicine and surgery at New Bolton Center from 1972-74. Sometimes, in an introspective moment, I shake my head, as if awakening from a dream and ask, “What am I doing here in Zululand of all places?”

A second generation American, I was steeped in the ethos of democracy, human rights and patriotism. In 1969, I graduated from Vassar College in my hometown of Poughkeepsie, N.Y., with a B.A in biology and English. I had never desired to travel, so when my IBM engineer father asked if I’d like a trip overseas as a graduation present, my reply was, “No thank you, Dad. Someday I’ll travel, but there’ll be a good reason for it.”

The good reason arrived when I was 26. I was to advise him and run the practice while he was away.

A kaleidoscope of impressions from those early days swirls before me. Everything was so different – apartheid, no TV, antiquated telephones, an oppressive government and driving on the wrong side of the road. The Afrikaans accent was hard to understand but the Natal English accent was music to anglophile ears. I taught myself Zulu out of a book, practicing it with James, our Zulu domestic worker, a man of great character, whose eye was stabbed out in a drunken brawl. This country of marked contrasts had delightfully wild places, wild animals and wild people. It was an amazing time living through Mandela’s release, the end of apartheid and the start of a new democracy.

The differences extend to veterinary medicine but ehrlichiosis, anaplasmosis and heartwater. We have been bitten by rabid cats and dogs and gone through the series of injections and the long wait to see if the slow virus wins. I absolutely hate African horse sickness; it makes us feel so helpless watching our patients drown in their lung edema. Then there are the wild animals brought in to us – exquisitely beautiful gray duikers; quaint, sprightly bushpiglets; snakes and magnificent birds usually with broken wings for setting. Poaching with snares is practiced heavily so we see dreadful snare wounds in dogs. Bushpigs often leave dogs gutted by their razor sharp tusks.

It is interesting to note cultural differences in attitudes towards animals in our rainbow nation. Hindu clients religiously oppose euthanasia, even if it’s the obvious humane answer. Zulu clients treat dogs as lowly creatures, while they revere their cattle as symbols of wealth, using them traditionally for lobola, a type of dowry. A Zulu client might walk for miles to come to us, dressed in rags with very little money, but another might arrive in a Mercedes. Ours is a practice that runs the gamut from First to Third World clientele daily.

In South Africa, our profession is composed of 2,500 registered veterinarians with a high level of practice, good camaraderie and excellent continuing education, frequently boosted by speakers from the United States. Peter served on the South Africa Veterinary Council for 18 years, and was president during the transition phase into the new South Africa. I believe our profession was very lucky to have a man of his caliber leading us. My contribution was to advise him and run the practice while he was away.

Bucking the white emigration trend, my parents came to live here. Vivacious and active, my 88-year-old mother and our lovely daughters, Julia, 24, and Jacqui, 22, enrich our lives. And the answer to my question, “What am I doing here in Zululand?” is I’m living a dream and loving it!
More than 75 School of Veterinary Medicine alumni and their guests attended an alumni reception during the American Association of Equine Practitioners Annual Convention in Orlando on December 5, 2002. Penn alumni enjoyed the opportunity to renew old friendships and make new ones during the premier equine veterinary continuing education event in the world. In addition to Dean Alan M. Kelly giving alumni an update on recent activities at their alma mater, attendees viewed *On Any Given Day* on a large screen to celebrate New Bolton Center’s 50 years of veterinary excellence. The new 15-minute video follows a day in the life of New Bolton Center.

One of the best-attended alumni receptions in recent memory was held at the North American Veterinary Conference in Orlando on January 19, 2003. Although the temperature outside was unusually cold and the Philadelphia Eagles had lost the NFC Championship earlier in the day to the eventual Super Bowl Champions, Tampa Bay Buccaneers, everyone’s spirits were high. Penn Veterinary Medicine alumni and their guests took advantage of the opportunity to catch up with one another and with members of the School administration and faculty.
President Bush delivered his much-awaited State of the Union Address on January 28, 2003. That day the streets of Capitol Hill and the halls of Congress were flooded with thousands drawn to the epicenter of American power — although only a privileged few were lucky enough to occupy one of the precious seats in the packed gallery. Most of these visitors wash in and out of town quickly like the tide. The following evening, I was able to sit alone in the galleries of the Senate and House and watch the proceedings on the floor below. That's how it goes in the nation's capital.

Last year I successfully applied for a Congressional Science Fellowship, which is sponsored by the American Veterinary Medical Association (AVMA) and the American Veterinary Medical Foundation (AVMF). Congressional Science Fellows serve for one-year in Washington, D.C., as representatives of the veterinary profession on the staffs of Members of Congress or Congressional Committees.

The morning of January 28, I took my usual route past the Hart Senate Building (site of the mailed anthrax contamination), the Supreme Court and the Library of Congress to my office in the Cannon House Office Building, which is adjacent to the Capitol. After checking the congressman’s schedule, my morning activities included answering email and returning phone messages. Two other legislative assistants (LA’s) and I were to have a meeting that afternoon with our “Boss” (the traditional term used by staffers for their representative) to discuss upcoming legislative issues.

My “Boss” is John E. Peterson who represents Pennsylvania’s Fifth Congressional District. It is the largest rural district east of the Mississippi River encompassing all or part of 17 counties in north central and northwestern Pennsylvania. Within its borders are Pennsylvania State University, the Allegheny National Forest, and a multitude of far-flung rural communities.

Representative Peterson has strong interests in representing rural America and is a member of the Congressional Rural Caucus. He is a member of the Appropriations Committee, arguably the most powerful House committee, where he serves on the Energy and Water Development, Interior, and the Labor, Health and Human Services, and Education subcommittees. The congressman is also a member of the Resources Committee, where he serves on the National Parks, Recreation, and Public Lands and the Forests and Forest Health subcommittees because the Allegheny National Forest is in his district.

Members of the Appropriations Committee have the privilege and power to determine federal expenditures. This makes them sought after by the thousands of private citizens and professional government relations’ representatives who bring their lobbying efforts to Washington. One of my jobs is to help the congressman by meeting with many of the lobbyists.

My morning was spent writing short memos to Peterson concerning the various “Dear Colleagues” letters that cross my desk daily. Other members of Congress generally send them requesting support in co-sponsoring bills or signing onto letters requesting actions directed to the President, department secretaries, or agency directors. Many of these include bills that never passed out of committee in last year’s 107th Congress and have to be reintroduced in the 108th. A computer search of information from the Legislative Information Service or the Congressional Research Service helps get me up to speed quickly on the essential elements of the bills.

Early in the afternoon, I used the legislative drafting service of the House Legislative Counsel’s office in an effort to remedy a problem concerning counties both in Pennsylvania and nationwide who failed to qualify for the Livestock Compensation Program. This monetary compensation program for livestock and dairy producers was designed to provide relief for forage crop failures during the preceding summer’s drought.

Many deserving counties in the country, including one in my district that represents a thousand dairy farmers, failed to qualify for the program due to a number of administrative reasons. Our job was to remedy the problem by legislation. An attorney in the Counsel’s office converted my explanation into the language we needed within the hour. The additional pressure of other representatives and senators representing agricultural areas resulted in $3.1 billion appropriated for drought relief in the FY 2003 Omnibus Appropriations bill signed into law by President Bush in February 2003.

Later that afternoon, the two other LA’s and I met with Peterson to discuss our specific areas of responsibility. Mine include agriculture, telecommunications, immigration, welfare, science and technology, veterans and welfare. Bills are presented to the congressman, discussed and courses of action decided upon (i.e., to co-sponsor or support). When the appropriations cycle for FY 2004 gets into high gear in March, the workload of issues will accelerate dramatically.

I left the office around 7:00 p.m. Security surrounding the Capitol had elevated dramatically during the afternoon in anticipation of the entire corpus of the legislative, executive and judicial branches congregating within the Capitol’s chambers. Security extended for a distance of five to six blocks from the Capitol grounds with busses and fire trucks serving as barriers across all of the surrounding streets.

Mounted police, scores of motorcycle officers, hundreds of Capitol Police, local police departments and state troopers from Maryland and Virginia were all present. The chopping sound of the overhead helicopters in concert with the glare of high intensity lighting and the flashing lights of hundreds of police vehicles created a surreal atmosphere. I retreated from this unsettling environment to the comfort of my tiny apartment to watch the President’s annual address to Congress.

Prior to his fellowship, Dr. Stock practiced small animal medicine in the Lehigh Valley for over 25 years. He has been active in veterinary medicine organizations throughout his career, and is a member of the University of Pennsylvania Veterinary Medical Alumni Society Executive Board and a trustee of the Pennsylvania Veterinary Medical Association. Dr. Stock recently received a Master of Bioethics degree from Penn.

Editor’s Note: Along with Dr. Stock, Richard A. Zappulla II, V’97, was also selected as a Congressional Science Fellow, and is serving in the office of Representative Howard L. Berman, who represents California’s 28th Congressional District (Los Angeles County).

For more information on the Congressional Science Fellowship program, visit the AVMA web site at <www.avmf.org>.
Class Notes

1938
Josephine Deubler received the American Kennel Club Lifetime Achievement Award for Conformation during a ceremony in New York City in February 2003. The AKC presents the Lifetime Achievement Awards annually to recipients, who have been selected by members of the dog fancy, in recognition of their many years of selfless efforts that have significantly contributed to the sport on a national level.

1948
During the Pennsylvania Veterinary Medical Association’s 120th Annual Scientific Meeting in August 2002, Richard H. Detwiler was honored with the Lifetime Achievement Award in recognition and appreciation of his many years of dedicated service to the PVMA as AVMA delegate and as a member of the Executive Committee.

1950
T. Richard Houpt was honored with life membership in the Conference of Research Workers in Animal Diseases during its annual meeting in November 2002.

1954
David A. Meirs II was interviewed by The New York Times on February 23, 2003, in an article about the state of the horse industry in New Jersey. According to Dr. Meirs, who raises Standardbred horses on his farm, “Buyers are going to say, ‘To hell with the stock market, I did better with my racing stables last year.’ Of course, it’s more fun to go to the races than the stock market, I did better with my racing stables last year.”

1955
Lawrence E. Atkinson was profiled by the Christian Science Monitor on December 20, 2002. According to the article, Dr. Atkinson, a veterinarian at Laurel Park in Laurel, Md., “is arguably the strongest person his age in America.” He started weight lifting at age 75, and says he holds state and national records in bench press, curling, and a combination event of dead lift and bench press. He has cared for Seattle Slew and War Emblem, and has worked the Preakness Stakes six times. To read the full profile online, visit <www.csmonitor.com/2002/1220/p10s01-alsp.html>.

1960
Arthur A. Bickford received the Lifetime Membership Award from the American Association of Veterinary Laboratory Diagnosticians during its annual conference in October 2002. Dr. Bickford was also honored with life membership in the Conference of Research Workers in Animal Diseases during its annual meeting in November 2002.

1961
Peter Theran, vice president of the Health and Hospital Division for the Massachusetts Society for the Prevention of Cruelty to Animals/American Humane Education Society, was honored in April 2003 with the Massachusetts Veterinary Medical Association’s 2002 Distinguished Service Award. The award, the most prestigious award that the MVMA confers, is given for accomplishments in the MVMA and in veterinary medicine and who has made an outstanding contribution to the service of humankind. With his experience in laboratory animal medicine, Dr. Theran has helped shape standards and practices that address research needs while respecting animal welfare concerns.

1963
During the PVMA’s 120th Annual Scientific Meeting in August 2002, Joseph R. Raught was honored with the Public Service Award of Merit for his continuous contributions to local and global communities over the past two decades through his work with Heifer Project International and for setting a shining example of volunteerism.

1964
Ronald L. Genovese was one of two veterinarians honored with the Distinguished Educator Award from the American Association of Equine Practitioners during its 48th Annual Convention in December 2002. He was recognized for his significant impact on the development and training of equine practitioners. Dr. Genovese, president of Randall Veterinary Hospital in Warrensville Heights, Ohio, has helped countless young veterinarians learn the rigors of private equine practice, and since 1983 has provided one-on-one assistance in ultrasonography to well over 50 veterinarians in his clinic. When nominated for this award, he was described as a man revered by his clients, respected by his colleagues and loved by his staff.

1968
The late Howard S. Kessler was honored posthumously as one of five new veterinarians to be inducted into the Morris Animal Foundation’s Veterinary Honor Roll. Ms. Karen LaFrak contributed $500 or more to the Foundation to nominate Dr. Kessler. “These veterinarians have gone beyond their duty to provide outstanding veterinary care to their patients,” said Dr. Robert Hilsenroth, executive director of Morris Animal Foundation. Dr. Kessler practiced in New York City.

1970
Fantaw Makonnen is the Opportunities Industrialization Centers International, Inc. (OICI) Country Representative in Ethiopia. Founded by the late Reverend Dr. Leon H. Sullivan, OICI is a non-profit private voluntary organization devoted to improving the lives of the underprivileged in developing countries.

1976
During the American Association of Equine Practitioners’ 48th Annual Convention in December 2002, Scott E. Palmer was installed as vice president of the AAEP. Dr. Palmer is president and a staff surgeon at the New Jersey Equine Clinic in Clarksburg, N.J.

1981
Jonathan H. Leach was profiled in The Falmouth Enterprise on April 4, 2003, on the occasion of open-
Class Notes

ing a new hospital, Leach Animal Hospital, on Cape Cod in Mashpee, Mass. According to the article, Dr. Leach’s father was Cape Cod’s first licensed veterinarian, and his uncle was the second veterinarian on the Cape. A mixed animal practitioner, Dr. Leach also makes field calls to local stables and farms.

1982

Julia A. Langenberg is secretary of the American Association of Zoo Veterinarians.

1983

Steven J. Berkowitz took first place in The Horse of Delaware Valley’s 12th annual Photo Best Action Division. Dr. Berkowitz also took third place in the division as well as first in Candids and third in Pets. The Horse of Delaware Valley is the oldest and largest equine monthly serving Pennsylvania, New Jersey, Delaware, Maryland, and Virginia.

1985

Michael R. Petranto was also one of five new veterinarians to be inducted into the Morris Animal Foundation’s Veterinary Honor Roll. Ms. Diane G. Travis nominated Dr. Petranto in honor of his excellent care. “Morris Animal Foundation is honored to recognize those individuals who have earned the utmost respect from their clients,” said Dr. Robert Hilsenroth, executive director. Dr. Petranto practices at VCA Twin Rivers Animal Hospital in East Windsor, N.J.

1986

Linda S. Mansfield has been elected vice president of the American Association of Veterinary Parasitologists for 2003 and will serve as president in 2004. Dr. Mansfield also serves as co-editor-in-chief for the Americas and Japan for Veterinary Parasitology.

Peter C. Rakestraw, assistant professor in the Department of Large Animal Medicine & Surgery at Texas A&M University, was recently named a Montague Center for Teaching Excellence Scholar. Dr. Rakestraw received a grant to research and develop innovative teaching techniques. The center’s objective is to stimulate the development of innovative teaching strategies and technologies at Texas A&M University and to recognize excellence in teaching early in a faculty member’s career.

1987

Amy Iris Attas was profiled in The New York Observer on January 6, 2003. Dr. Attas owns CityPets, New York City’s largest house-call veterinary practice. Her 2,500 clients include many celebrities, Erica Jong, Joan Rivers, and Tommy Tune to name just a few. According to Dr. Attas, “My favorite part of the day is when I’ve just finished sticking needles in a dog and doing all those things that have to be absolutely miserable for them, and I get a big wet kiss across my face.”

1988

Gary E. Rothman was profiled in The Post-Standard of Syracuse, N.Y., on January 9, 2003. Dr. Rothman recently expanded his practice, Quarryside Animal Hospital in Jamesville, N.Y., by moving to a new location. According to Dr. Rothman, “We at least tripled the space. We can offer a lot more services. We’re growing fast, and we have better exposure.” An avid photographer, his work hangs in the examination rooms.

1989

Joanna M. Bassert, professor and director of Veterinary Technology at Manor College in Jenkintown, Pa., was recently named chair of the National Commission on Veterinary Economic Issues’ Staff Utilization Committee. The committee will help to create interactive online tools that will assist practitioners to more effectively use their support staff. She is the editor of the Clinical Textbook for Veterinary Technicians and author of Clinical Anatomy and Physiology for Veterinary Technicians. In addition, Dr. Bassert is the founder of the Northeast Veterinary Technician Educators Association.

1990

Celeste C. Kunz has been named Chief Examining Veterinarian for the New York Racing Association, a private, non-profit racing association that owns and operates the three largest racetracks in New York – Aqueduct, Belmont Park, and Saratoga. Dr. Kunz, who has worked as a track veterinarian for the NYRA since 1994, is the first woman to hold the position. She has been credited for playing a key role in saving the life of Charismatic, the 1999 Kentucky Derby and Preakness States winner, when he broke his leg during his pursuit of the Triple Crown in that year’s Belmont Stakes. In July 2002, she spoke on “West Nile Virus: The Emergence of a New Disease in the Western Hemisphere” at the 14th International Conference of Racing Analysts and Veterinarians.

1991

Paul R. Avery is a new diplomate of the American College of Veterinary Pathologists and is certified as a veterinary clinical pathologist.

Diane Monsein Levitan recently opened the Center for Specialized Veterinary Care in Westbury, N.Y. It is the first veterinary hospital in the world that provides pet owners with private rooms, enabling them to stay with their pets during the animal’s hospitalization – even overnight. The referral practice also offers 24-hour emergency service, radiation therapy, animal rehabilitation, and radioiodine treatment.

William P. Rives visited the School of Veterinary Medicine and spoke to students in March 2003 as part of the Dean’s Alumni Career Speaker Series. Dr. Rives is the veterinarian at Six Flags Wild Safari in Ocean County, N.J., which features 1,200 animals representing 52 exotic species.

Heidi B. Stout, director of oil programs for Tri-State Bird Rescue & Research of Newark, Del., was interviewed on Philadelphia’s KYW NewsRadio 1060 before she left in December 2002 for three-weeks to help save birds affected by an oil tanker spill off the northwestern coast of Spain.

Susan V. Westmoreland is a new diplomate of the American College of Veterinary Pathologists and is certified as a veterinary anatomic pathologist.

1992

Bradford G. Bentz sent this class note via e-mail: “While I was attending a recent scientific meeting, I learned that a very dear friend of mine had died a number of months ago. Peyton Jones, D.V.M., although never a ’Penn-wo’, had completed a residency in large animal internal medicine at New Bolton Center in 1994. I was shocked and very upset to hear of his death. It was not until only recently that I could objectively reflect upon his impact on my veterinary career and me.

“Peyton was one year ahead of me in his residency. Although the name ‘Jones’ may imply that he was an ordinary fellow, his friendship, encouragement and tutelage during my residency could not have been any more extraordinary. Peyton warmly embraced a role as my ‘big brother’ during his tenure as a resident. I immediately found him to be a warm and genuine person to whom I could always look for encouragement during the times that I could find little reason for optimism. He always encouraged me to dig a bit deeper and to believe in what I had to offer this profession at times when I was unsure that I had much to offer. Indeed, at one point in my residency, when I was seriously considering leaving the program, Peyton only found promise and genuine concern for me and for my future in his heart. I truly believe that it was his encouragement and his belief in me that kept me going when I felt I could not.

“Today, I am very happy with who I am, what I am doing and how I am contributing to this profession. Peyton has much to do with my success. In my final words to you, Peyton, ‘thank-you.’ You were anything
but an ordinary person in my life. May you find much-deserved peace and happiness in your rest. God bless you.”

1994
Christine Kreuder, a graduate student in wildlife epidemiology at the University of California, Davis, was recently named a Morris Animal Foundation Fellow. The Foundation established the Fellows program in 1955 to honor students who participate on the investigative teams of Foundation-funded animal health studies. Fellows are nominated by the principal investigator of the study on which they are working. In addition to Dr. Kreuder’s main research topic of infectious disease of marine mammals, her research interests also include population-level impacts of disease in wildlife, disease ecology, and measures of population abundance.

1995
Alexander J. Travis was recently appointed an assistant professor at the James A. Baker Institute for Animal Health of the Cornell University College of Veterinary Medicine. A reproductive biologist, Dr. Travis’ research interests include the compartmentalization of metabolic and signaling pathways in male germ cells, germ cell differentiation, and the development of in vitro spermatogenesis. His clinical interests include assisted reproductive technologies in exotic and domestic species and conservation and preservation of genomic diversity in wildlife.

1997
Amanda E. Fine is one of two Michigan State University scientists heading up a new graduate specialization program in wildlife disease ecology and management. Dr. Fine is currently conducting research on the epidemiology of bovine TB in Michigan with a focus on the interaction between cattle and white-tailed deer and the identification of risk factors for disease transmission. Her additional research interests include the epidemiology of wildlife-livestock disease transmission, veterinary public health and international veterinary medicine.

1998
Sarah Anna Pesillo is a new diplomate of the American College of Veterinary Emergency and Critical Care.

1999
Akiko Sato has completed her residency in laboratory animal medicine at the UCLA David Geffen School of Medicine. Dr. Sato has recently joined the VA Greater Los Angeles Healthcare System, the largest, most complex healthcare system within the U.S. Department of Veterans Affairs, as an associate veterinary medical officer.

2001
Jonathan M. Castro has recently joined the Banfield Durham, North practice in Durham, N.C. Eric D. Lombardini, a captain in the United States Army Veterinary Corps at Fort Polk, La., is currently serving in Operation Iraqi Freedom. Dr. Lombardini served as an expert for The Worst-Case Scenario Survival Handbook: Holidays. Dr. Lombardini is a 1993 Penn undergraduate and a classmate of Joshua Piven, a co-author of the book.

2002
Amy L. Hancock is a clinical veterinarian at the Center for Animal Resources and Comparative Medicine at Harvard Medical School.

BIRTHS
1998
Barbra Hart-Karner, a son, Joshua Lewis, on May 11, 2002.

2001
Stephanie R. Becker, a daughter, Erin Lee, on November 6, 2002.

DEATHS
1937

1938

1943
C. Arnold Moorehead on March 27, 2003.

1944

1946

1949
Jane Hinton on April 9, 2003.

1951
Raymond E. McKinley on February 6, 2003.

Share news with your classmates about a new position or accomplishment, wedding or birth announcement, by sending your class note today! We accept pictures, too, featuring alumni gatherings, whether it’s from a wedding or mini-reunion. Be sure to identify everyone in the picture. Pictures will be returned only upon request. Send all your submissions to: Joshua E. Liss, Director of Alumni Relations and Annual Giving University of Pennsylvania School of Veterinary Medicine 3800 Spruce Street Philadelphia, PA 19104-6047 Fax (215) 573-3544 E-mail lissj@vet.upenn.edu
Entrepreneurship Drives Veterinarian

(continued from page 14)

His staff hear his favorite mantra – “Attitude reflects leadership” – again and again. “If I set a good attitude at my level,” explains DeCarlo, an avid motorcycler with a longtime involvement with cancer, located in the Pocono Mountains, in the Ronald McDonald Camp for children “it will filter down to the receptionist and then to the client.”

Head veterinary technician Janet McConnell, who joined Red Bank 10 years ago when it was a five-doctor practice, notes that Red Bank employees rarely leave. She attributes the low turnover to DeCarlo’s ability to connect with the staff. “Out of the blue, he’ll say, ‘Let’s buy the hospital pizza today.’”

He also hosts frequent staff get-togethers at his home in nearby Ocean Township, N.J., where he lives with his two cats. In addition to investing in his employees’ friendship, he invests in their intellect: Each employee, from the veterinarians to the janitors, has a continuing education budget.

As for the future of his profession, DeCarlo sees the tides shifting in favor of large practices like his own that, because of their sheer size, can offer a wider breadth of services to their increasingly-demanding clients.

When he appraises his hospital in self-talks each morning, he is downright critical. No matter. As a veterinarian and a practice owner, DeCarlo has arrived. But he’ll never admit it.

D. Christine Anderman, V’98, married Jeffrey S. Leigh, C’93 D’97, on September 21, 2002, on the banks of the Chesapeake Bay near their home in Annapolis, Md. Dr. Leigh practices at Arnold Veterinary Hospital in Arnold, Md.

Back Row: David F. Zeyher, D’61 GD’64, Alan G. Harquail, Jr., D’54 GD’60, Russell S. Anderman, Jr., EE’67, Matthew Baron, D’99, Greg E. Dalin, D’97, Jeffrey S. Leigh, Thomas M. Drummond, D’97, Mark J. Robinson, D’97, Brian Duffy, WG’97, and Robert A. Leigh, D’69.

Opportunity Scholarship Donor Profile: James S. Harper III, V’72

By Lori Spencer Mann, V’95

On any given day, you might find James S. Harper III, V’72, director of animal care at Brown University in Providence, R.I., where he has worked since 1985, engaging in a myriad of administrative duties, providing clinical support to the lab animal department that he oversees, or advising his undergraduate students and mentoring those who might have an interest in attending veterinary school. He is responsible for more than one Brown undergraduate attending vet school at Penn. Dr. Harper’s day might also include participating in a research project, teaching his experimental surgery class, or devising a novel anesthetic technique on some exotic or lab animal species.

On that same day, you also might find him offering fatherly advice to one of his four children (his oldest son is a freshman at Brown), taking a call from the Rhode Island 1 Disaster Medical Assistance Team (RI-1 DMAT), of which he is a member, communicating with his colleagues in the American College of Laboratory Animal Medicine, squeezing in his volunteer paramedic/firefighter duties with the fire department in his hometown of Sterling Mass., or planning a night out with his wife, Robin, to attend the ballet.

From Dr. Harper’s humble beginnings to becoming the first child in his family to graduate from college, through his years at Penn State and early entry into Penn Veterinary Medicine, and from his service in the Army to time spent in Central America, a NIH fellowship, and working at Brown, he amassed a diverse portfolio of service and experience. In fact, the Governor of Rhode Island recognized the entire team, including Dr. Harper, for their work with RI-1 DMAT at Ground Zero. During a 12-day period, he was able to use his emergency medical skills to help the many other rescue personnel [human and canine] on duty.

Dr. Harper is proud of Penn and strongly believes in the value of the education he received. He continues to be deeply motivated and inspired by his students at Brown and those he has mentored at Penn through the Opportunity Scholarship Program (OSP). Established in 1998, the Program is designed to foster scholarship support, provide mentoring opportunities for students and offer alumni a unique opportunity to establish a meaningful connection with future colleagues.

According to Dr. Harper, it was a natural decision for him to fund an Opportunity Scholarship as he enjoys giving back what he had received. He also is cognizant of the high debt incurred by students today and how it can impact their career choices. Dr. Harper’s motivation to give back is also inspired by those who motivated him as a student, including Charles W. Raker, V’42 (current chair of the OSP committee), Wilbur B. Amand, V’66, Paul Berg, V’62, William B. Boucher, V’40, William Donawick, Alan M. Kliide, V’65, William Moyer, and Lawrence R. Soma, V’57.

Editor’s Note: Established in 1998, the Opportunity Scholarship Program provides a $10,000 award ($2,500 for each of four years) to a qualified student with demonstrated need while teaming the student with the donor or group of donors in a mentoring process. The program currently supports 40 students. For information on how you can support the future of veterinary medicine through this program, please contact Dori Myers at the School at 215.746.7438 or via e-mail at dmyers@vet.upenn.edu.

Opportunity Scholarship Donor Profile: Nathan D. Harvey, V’03

By Nathan D. Harvey, V’03

My name is Nate Harvey. I am a fourth-year food animal major from Newfield, Maine. Having grown up near my grandfather’s small dairy farm in southern New Hampshire, I’ve always had a particular interest in dairy cows. Since I was a little kid, it has been my dream to attend veterinary school and return to New England to practice dairy medicine. I’m interested in cows from a production standpoint, from a medical and surgical standpoint, and equally as important, from an animal welfare and animal comfort point of view. It is important for us to realize that our animal production systems are becoming more intensified to meet the growing food demands of our growing population. However, it also is important that we continue to maintain adequate standards for animal comfort as this happens.

One of the many valuable lessons I’ve learned on my grandfather’s farm is that “happy cows make more milk,” and it is true for any animal production system—comfortable, healthy animals equal better production.

I am glad to have maintained the important smaller-farm lessons and values that I learned growing up, and I look forward to combining them with the important concepts of progressive production medicine that I’m learning here at Penn. Too often, people consider these two lines of thought (i.e., small farm values vs. large farm production) to be in strict conflict with each other, when actually they both play important roles together in successful production medicine.

This brings me to what I really want to emphasize tonight. While I am fortunate enough to finally be achieving my goals of pursuing dairy medicine, I could never have made it this far without the unending support of the alumni from Penn’s Vet School. I am particularly grateful for the generosity of Dr. Ben Martin, V’80, my Opportunity Scholarship sponsor. I can honestly say that I would not be standing here at this great School, if not for his selflessness, as well as that of the many alumni here that contribute to relieve students’ educational expenses. To all the alumni here tonight who donate your time, your mentorship, and your hard-earned money to the students of this School, I would like to remind you that your giving is tremendously appreciated by the students. Your generosity is not taken lightly, and in many cases (such as my own) it can make all the difference between a student not realizing his/her goals, and a student going all the way. If I could possibly emphasize this enough, I would say it a thousand times... thank you, thank you, thank you.

In conclusion, needless to say, the Huidekoper dinner has become a special annual landmark for me. Each fall I have looked forward to meeting the alumni, enjoying the guest speakers, and cheering on the new first-year Opportunity Scholars. However, my anticipation for this year’s dinner was bittersweet at first, as I realized with disappointment that it would be my fourth and final Huidekoper dinner. Then I quickly realized that, on the contrary, this is not to be my final dinner at all. I will be coming back to enjoy Huidekoper dinners in the future, as a scholarship donor rather than a recipient. If I can make half the difference in my recipient’s life that my donor and all of you have made in mine, it will be worth it many times over.

Thank you.
**Animal Crackers**

**Bats**

The bats on the new United States postage stamps are getting a lot of attention. In Pennsylvania, bats have a huge impact on the insect population and are of great benefit to farmers and foresters. However, they remain misunderstood, unappreciated and feared by many.

Bats are the only predators of night-flying insects and play a role in controlling many other insect pests. A single bat can consume as many as 500 insects an hour. A colony of 100 little brown bats may consume more than a quarter of a million mosquitoes and other small insects in a night. This is a great help in the control of West Nile virus.

Bats have a variety of habitats – fields, forest, cities and suburbs. When a lone bat or a colony is found in a building, humans may consider this a problem. The best way to get a lone bat out of the house is to let it find its own way out. Confine it to as small an area as possible, and open all windows. It may be necessary to bat-proof your home by sealing entrance holes and providing an alternate roost, or bat box. These boxes may be on a pole or in trees but must have at least seven hours of sunlight. Because of their beneficial role in controlling insects, many people want to attract bats to their yards and gardens by using bat boxes.

*Disclaimer: This information is meant to be educational and is not intended as a substitute for professional advice.*

**A Homeowner’s Guide to Northeastern Bats and Bat Problems** is available from Pennsylvania State University (single copies are free of charge). Telephone 814-865-6713 or on the Web at <http://pubs.cas.psu.edu/freepubs/uh081.html>.

**Presidential Cats**

India, a black cat, was brought from Texas to the White House by the Bushes. Socks, Chelsea Clinton’s cat, went to live with secretary Betty Curie when the Clintons left the White House. Jimmy Carter had a Siamese named Misty Malarky Ying Yang. Gerald Ford also had a Siamese, Shan. Presidents Kennedy, Coolidge and Wilson had cats. Theodore Roosevelt had a polydactyl, Slippers. William McKinley had an Angora. Rutherford Hayes had a Siamese, Siam, said to be the first recorded Siamese in America. Abraham Lincoln was the first White House cat owner. He once said, “No matter how much cats fight, there always seem to be plenty of kittens.”

**Pet Travel to UK**

The United Kingdom has relaxed its six-month quarantine restriction on cats and dogs entering the country from the United States and Canada, provided the animals meet the requirements of the UK Pet Travel Scheme (PETS). To qualify, the animal must be fitted with a microchip, vaccinated against rabies (but not before three months of age) and blood-tested at a recognized laboratory, issued an official PETS certificate and treated against ticks and tapeworms.

The microchip must conform to an ISO standard used in Europe. Many microchips used in America and Canada are not compatible and the owners may need to carry a scanner with them.

Only two laboratories in America are recognized at this time to perform the fluorescent antibody virus neutralization test and one only accepts samples from dogs and cats belonging to the military. The sample should be taken about 30 days after vaccination. There is a six months wait from the time a successful blood sample is taken and entering the UK.

Dogs and cats must be treated against tapeworms and ticks not less than 24 hours and not more than 48 hours before they are checked in to travel, and must have official certification from the USDA and CFIA.

The animals must travel in a container with a seal applied by a government official and on an airline approved for PETS by the UK Government.

It’s possible that the rules may change. More information can be obtained on the PETS Website – <www.defra.gov.uk/animalh/quarantine/>.

**More Animal Groups**

A reader sends:
- a prickle of porcupines
- leap of leopards
- cackle of hyenas

**Definitions**

Mule – the sterile offspring of a mating between a jack (male donkey) and a mare (female horse).

Hinny – progeny of a stallion and of a jenny (female donkey), more horse like in appearance than a mule.

Horse hinny – male hinny

Mare hinny – female hinny, also called a molly.

Wether – a male sheep castrated at an early age before secondary sex characteristics have developed.

Bellwether – leader of the flock.

Cryptorchid – an animal with undescended testes also called a ridgling (usually a horse) or rig.

**AKC Registrations**

In 2002, the American Kennel Club registered 958,503 dogs. This is the first time in many years that the total has been below a million. Labrador retrievers lead the list with more than twice the number of golden retrievers, which are in second place. The others in the “Top Ten” are German shepherds, dogs, beagles, dachshunds, Yorkshire terriers, boxers,oodles, Chihuahuas and Shih Tzu.

Labradors have led all the breeds every year since 1991. In 2002, 154,616 were registered. Almost all breeds had lower numbers than in 2001. Of the 150 breeds listed, only 41 showed increased registrations in 2002. Cavalier King Charles spaniels had the largest increase, followed by mastiffs, bulldogs, Havanese, and Portuguese water dogs. Last on the list are otterhounds with only one litter and 17 individual dogs registered.

An Ibizan hound placed first in the Hound Group at Westminster this year. In 2002, this breed ranked 147th, with 50 dogs registered. Jack Russell Terriers, now called Parson Russell Terriers, showed a slight decrease in numbers, although they are very popular on television.

The AKC and breed club web sites are extremely helpful for those thinking about a puppy. Study before you buy. Start with <www.akc.org>.
THE FOLLOWING GIFTS WERE MADE TO NEW BOLTON CENTER:
In honor of a special person:
Mr. & Mrs. Jerre Frankhouser of Hammer Creek Farm in honor of their longtime equine veterinarian Edward Mersky, V.M.D.
Mr. Anthony P. Glasscock in honor of Sandra Glasscock, who chose to forgo Christmas presents to help injured horses.
In honor of Leicester White's 12th Birthday party:
Karen E. Randolph
Mr. & Mrs. John E.T. Taylor
In the memory of those listed:
Mary Jane Allen in memory of Christopher Spera
Jean and Wayne Bonde in memory of Greg Hendrickson
Dr. & Mrs. Luis A. Colon in memory of William B. Boucher, V.M.D.
Brian A. Kilbourne, V.76 in memory of Arthur Bartnieslagn, V.37
Mr. & Mrs. Paul J. Serek in memory of John Hattie
Mrs. Sara G. Sperling in memory of Dr. F. George Sperling
Ms. Jeanne M.F. Swartchild in memory of Dr. Eric Ullman Wonder.

THE FOLLOWING GIFTS WERE MADE TO THE MATTHEW J. RYAN VETERINARY HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA:
In memory of a special pet:
Ms. Karen Anstett in memory of "SAM"
The Armstongs in memory of "AXEL"
Ms. Mary Brightwell Arnold in memory of "MOG WAI" & "SCAMPIFY"
Roslyn Barefield in memory of "BO"
Mr. Edward R. Benjamin in memory of "SHADOW"
Ms. Elizabeth M. Blanc in memory of "NOVA"
Ms. Eugenia B. Bishop in memory of "CH CROBYN'S BLUE LADY OF CARDAGH"
Ms. Karen Ramsing Riber in memory of "SICURION"
Ms. Barbara Black in memory of "MUFFIN"
Mr. and Mrs. Arthur Black in memory of "CALAMITY JANE"
Mr. and Mrs. Wayne Bonde in memory of "TAMI WOLF"
Ms. Barbara Jean Burns in memory of "CHIVAS"
Mr. and Mrs. William H. Bux in memory of "SNOW PRINCE"
Ms. Frances R. Byens in memory of "LAUSVE"
Jo Etta Campbell in memory of "BEAR"
Lila Cantor in memory of "BREWSTER"
Mr. and Mrs. David Capuano in memory of "CAMEL"
Ms. Donna K. Cadaton in memory of "BULLET"
Mr. and Mrs. Geoff Coates in memory of "PFOE PAWS"
Mr. and Mrs. Alfred Cavallaro in memory of "TROOPFER"
Mr. and Mrs. Eugenio Chingio in memory of "BRANDY" , "BIANCA", & "WOLF"
Mr. and Mrs. Thomas V. Cincy in memory of "TROLLET DOG"
Ms. Paula M. Clark in memory of "OMEGY"
Mr. Wayne Conner in memory of "WODAN"
Mr. and Mrs. William Corcoran in memory of "BARNEY"
Ms. Elizabeth C. Crawford in memory of "COFFEE"
Ruth F. Crothers-Spitalo in memory of "JOSHUA"
Rex Douglas and Dempster in memory of "NOELLE"
Ms. Sharon Dicker in memory of "TORY"
Jo Alene Dolan in memory of "MIDNIGHT"
Mr. and Mrs. Brian Dorey in memory of "BRANDON"
Mr. and Mrs. Dennis Ecker in memory of "BUMP_OKER"
Ralph C. Eagle, Jr. in memory of "MISIA"
Mr. and Mrs. Mulford E. Emmel, Jr. in memory of "ABERCROMBIE"
Ms. Katrinika M. Engel in memory of "SUMMER"
Ms. Elizabeth E. Erkel in memory of all her dogs
Mr. and Mrs. Philip Ferrara in memory of "EINSTEIN"
Ms. Edna R. Fetter in memory of "JENNY"
Ms. Lynda Flett-Carin in memory of "DUBY" & "TUFFY"
Mrs. Susan Friél in memory of "MORGAN"
Mr. and Mrs. Peter Hanos in memory of "SNUFFY", "MAXWELL", & "MACURCE"
Ms. Meredith F. Heckler in memory of "MOLLY" & "NELLIE"
Mr. and Mrs. Wilson J. Hipley in memory of "MAJOR","GARETH","PHELAN","NICE", & "PAL"
Mr. David M. Howell in memory of "BEAU"
Mr. and Mrs. Joseph Gaudioso in memory of "BONNIE" & "NICOLE"
Ms. Mary Gaspar in memory of "SPENCER"
Judith Gefland in memory of "ZEKE"
Mr. and Mrs. Joseph G. Giorni in memory of "GRIGGIO","ORPHANO","FYU"
Mr. Doris Goodman in memory of "TAPOOZ"
Mr. and Mrs. Scott Green in memory of "CHAMP"
Mr. and Mrs. E.H. Griffiths in memory of "DORSET"
Mr. Martin C. Gutowski in memory of "THOMAS"
Mr. Stefan Guay in memory of "JASON"
Mr. and Mrs. John Guzes in memory of "ABBY"
Ms. Beth Hall in memory of "SPENCER"
Mr. Robert Hashch in memory of "ROCKY" & "MAX"
Mr. Henry R. Hecht in memory of "BARNEY"
Mrs. Meredith Heckler in memory of "MOLLY" & "NELLIE"
Mr. Jacob B. Himes in memory of "FRANKE"
Ms. Frances M. Iadaveiss in memory of "MISS KATE"
Mr. and Mrs. Edward James in memory of "ALIE"
Mr. James Jefferson in memory of "BRIDGET"
Mr. Reginald L. Jones in memory of "CHARLIE"
Ms. Cynthia J. Karkan and Mr. Wes Buech in memory of "TEDDY" & "HUGGIE"
Mr. Barry A. Kaufman in memory of "PRINCESS"
Ms. Joan Kuan in memory of "ADAK"
Mr. Adam Kuey in memory of "HERMAN"
Mr. Al Kriegman in memory of "SNOOPY"
Mr. and Mrs. Brian Klicko in memory of "BABE" & "DINO"
Mr. and Mrs. K. Kueher in memory of "SPUNKY"
Ms. Maria Komoroski in memory of "MAX"
Dr. The Knutson Family in memory of "SNOKEY"
Mr. and Mrs. Joseph B. Kopaczewski in memory of "SCHNAPPERS"
Mr. Frank Krup in memory of "TEGGS"
Ms. Patricia Latinney in memory of "HENRY" & "SALLY"
Ms. Sandra Langein in memory of "B C" the cat
Dr. Elizabeth Atwood Lawrence in memory of "SHAMAN"
Ms. Eva C. Leary in memory of "MTSY MIDDY"
Dr. and Mrs. Ronald D. Lufi in memory of "ORANGE"
Ms. Nadine M. Mackey in memory of " OLIVER" & "SUSHINE"
Ms. Karen A. Makara in memory of "THUMPER"
Mr. Gerald L. Magid in memory of "SAM"
Mr. Bruce H. Mann and Ms. Elizabeth Warren in memory of "TROVER"
Ms. Donna Matteate in memory of "KITTY"
Mr. and Mrs. Adam Matteo in memory of "RODNEY"
Dr. Tom J. McCann in memory of "BUDDY", "PEDO", & "SWEET PEA"
Mr. and Mrs. Scott R. McKee in memory of "KI"
Mr. and Mrs. James A. McMillan in memory of "ROCKY"
Mr. and Mrs. David J. Mealmon in memory of "HARRIY MORT"
Ms. Karen E. Medina in memory of "MEGAN"
Ms. Barbara Miles in memory of "PROF PAWS"
Mr. James L. Miller in memory of "RICK"
Ms. Celeste O'Malley in memory of "ANGUS"
Mr. and Mrs. James R. McDonald in memory of "JOSHI"
Ms. Kathryn and Marilyn McGee in memory of "ROSCO"
Mr. and Mrs. William E. Milholen in memory of "HERSHY" & "NUTMEG"
Mr. and Mrs. James E. Mills in memory of "SHILOW", "KEDRYN", "MADISON", "DANA", & "DEMLELZK"
Ms. Lois Milsor in memory of "ULISEES", "ARGUS", "MOOSE", & "OLIVER"
Mr. and Mrs. Leon Nardin, Jr. in memory of "KELLY"
Ms. Ann K. Ogik in memory of "MITTENS"
Mrs. Catherine M. Olive in memory of "MAI LING"
Ms. Mary M. Orzyek in memory of "WILLIAM VAN ORANGE-NASSAU"
Mr. Robert S. Osevy, II in memory of "ANGUS"
Dr. Bernard Paiwensky in memory of "MAXWELL"
Mrs. Janet E. Parker-Vandenborg in memory of "SHERMAN"
Mr. John Samas and Sonya Petren in memory of "FI", & "OLIIIE"
Ms. Kathleen E. Phelan in memory of "BUDDY"
Ms. Lana R. Pinkenson in memory of "AVI"
Mr. and Mrs. Duarte E. Pinto in memory of "SANDY"
Ms. Carolyn Baker Pope in memory of "ROMEO"
Ms. Maggie Powell in memory of "ALABASTER" & "ROCKY"
Mr. John J. Prinsendor, Jr. in memory of "TEDDY BEAR"
Mr. Gerard Primavera in memory of "ASHLEY"
Mr. and Mrs. Robert L. Quigley in memory of "TEDDY"
Mr. and Mrs. Robert W. Ralphson in memory of "MANDY"
Ms. Elaine Rajpoot in memory of "PHELAN"
Mr. David H. Reit in memory of "CANDY", & "PUSSY"
Mr. and Mrs. Warren G. Richards in memory of "KATRINA"
Ms. Karel A. Rogozenski in memory of "MURPHY"
Ms. Joanne M. Rogers in memory of "MUFFIN"
Ms. Carol A. Rowell in memory of "MOLLY" & "ASHLEY"
Mr. Louis G. Rubino in memory of "PATSY"
Mr. Gregg A. Runyan in memory of "JESSIE" & "MEGGIE"
Mr. Philip Rush in memory of "GRETA GARBO"
Mr. and Mrs. Thomas Russo in memory of "BUSTER"
Mr. Denis Rutkowski in memory of "SLAMMIE"
Mr. and Mrs. Raymond M. Scarduzio in memory of "SAMM"
Mr. Victor E. Schaefer in memory of "TRACY" & "TRINA"
Mr. Paul J. Scholl in memory of "PIPER"
Ms. Randi S. Seranoff in memory of "SADIE"
Mr. and Mrs. James E. Mills in memory of "SHILOW", "KEDRYN", & "NUTMEG"
Dr. and Mrs. Parker M. Seymour in memory of "OBIE" & "CLYDE"
Mr. and Mrs. Gene W. Sharpless in memory of "SANDY"
Mr. and Mrs. James J. Sheridan in memory of "MOZART"
Ms. Marion Shonerton in memory of "MICKEY"
Mr. J. Jamele Smith in memory of "DIXIE"
Mr. Philip Spinelli in memory of "TIGGER" & "NICHOLE"
Ms. Mildred M. Stauffer in memory of "BUDDE"
Mr. and Mrs. Edward C. Stavensick in memory of "SALLY"
Mr. and Mrs. William W. Strefling in memory of "JINX" and others
Mr. James L. Stowell in memory of "MOLSON"
Mr. Mark A. Stuart and Mr. Tim Rupe in memory of "MEI LING"
Mr. and Mrs. Michael G. Allen in honor of David J. Phillips, Jr.
Mr. and Mrs. Alan R. Werner in honor of "FOSTER"
Mr. and Mrs. Darry Voss in honor of "BEAR", "NIKI", & "SERGEI"
Drs. Marian and Robert Slater in honor of "CHELSEA" 13th Birthday
Mr. and Mrs. James O. Singer in honor of "SNOWDON"
Mr. Kirk A. Rebane in honor of "SALTZWATER"
Ms. Maggie Powell in honor of "NICO"
Mrs. Jane F. Markham in honor of "MCDUFF"
Ms. Patricia Klous in honor of "MOLLY"
Ms. Nina Kallmyer in honor of "STEFFIE"
Ms. Tammy James in honor of "RIDLEY"
Ms. Linda Graycar in honor of "PRECIOUS"
Ms. Antoinette M. Armstrong in honor of "NATASHA"
Ms. Ethel M. Zell in memory of Matthew Laudano
Mr. and Mrs. John Cavanaugh in honor of "ROCKY"
Mr. and Mrs. Guido Cassetta in honor of "ZEUS A VENTINUS"
Ms. Donna K. Carlton in honor of "JAMES"
Mr. Stanford A. Bristol in honor of "SPENCER"
Ms. Ethel M. Zell in memory of Matthew Laudano
Mr. and Mrs. Salvatore Amato in honor of "CHRISTOPHER"
Mr. and Mrs. Andrew Cruz in honor of Geneve Cruz
Mr. and Mrs. Richard C. Schneider in honor of Alison Seward
Ms. Rosalyn Richman in honor of Dr. Jennifer Smelstoys
Mr. Richard C. Schneider in honor of Alison Seward
Mr. Jonathan Weinstein and Sarah Jordan in honor of Dr. Stephen Cole, V.M.D.

A life income gift can help you to stretch your charitable giving resources.

Charitable remainder trusts and charitable gift annuities are tax-deductible contributions that allow you to keep income from the assets that you donate. Proceeds go to the School of Veterinary Medicine, Ryan Veterinary Hospital or New Bolton Center after your death.

- With rates at 5% to 9.5%, you might even double or triple your return.
- You will enjoy significant tax savings.
- Some plans pay tax-exempt income.
- It’s like the Trifecta of charitable giving.

**Sample Benefits (one income beneficiary)**

<table>
<thead>
<tr>
<th>Age of income beneficiary</th>
<th>$10,000 charitable gift annuity (fixed income)</th>
<th>$100,000 charitable remainder unitrust (variable income)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Income rate</td>
<td>One-time income tax deduction</td>
</tr>
<tr>
<td>60</td>
<td>6.0%</td>
<td>$2,175</td>
</tr>
<tr>
<td>65</td>
<td>6.3%</td>
<td>$2,766</td>
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<tr>
<td>70</td>
<td>6.7%</td>
<td>$3,397</td>
</tr>
<tr>
<td>75</td>
<td>7.3%</td>
<td>$3,990</td>
</tr>
<tr>
<td>80</td>
<td>8.3%</td>
<td>$4,497</td>
</tr>
<tr>
<td>85+</td>
<td>9.5% (max. rate)</td>
<td>$5,099+</td>
</tr>
</tbody>
</table>

To learn more, please consult our gift planning expert: Janine Ehsani, Office of Gift Planning, 215-898-6171 or 1-800-223-8236, ehsani@ben.dev.upenn.edu.
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, 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, 3600 Chestnut Street, Sansom Place East, Suite 228, Philadelphia, PA 19104-6106 or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).
Honors for Elizabeth Moran

At the annual Thoroughbred Charities of America auction, held on December 7 at Herb and Ellen Moelis’ Candy Land Farm in Bohemia, Md., Mrs. Elizabeth Moran was honored by Thoroughbred Charities of America and by the School.

Herb Moelis, W’53, president of Thoroughbred Charities of America, made the presentation of the Allaire duPont Humanitarian Award to Elizabeth Moran, recognizing her generous and continued support of various equine-related charities and especially her long standing support of New Bolton Center. He also noted that beyond the equine charities, Betty’s philanthropic endeavors were wide spread. For instance, when the horrific events of 9/11 occurred, Betty was one of the first to offer financial support to the Hero’s Fund. Herb further explained that the T.C.A. had very much wanted to honor Betty long before this, but when Betty was asked, she said absolutely, positively not. Finally, the organization simply decided to proceed with the honor in 2002, without her having any advance knowledge. After the presentation her comment was “had I known about it, I would have dressed for the occasion.” According to Ellen Moelis, “How gracious and so typically Betty. A true Grand Dame of racing, a true philanthropist and a wonderful person.”

Betty Moran has had many winning horses and is one of the people in racing who had winners in both the Thoroughbred Classics and the Grand National Steeplechase.

After Herb Moelis’ presentation, Dean Alan Kelly honored Mrs. Moran by presenting the School’s silver Bellwether Medal to her, the Veterinary School’s highest honor. He read the following citation:

Elizabeth (Betty) Moran has been a staunch friend to the School of Veterinary Medicine for more than forty years. Her early association with the late Mark Allam, a beloved friend, and her use of the New Bolton Center’s clinical facilities forged a bond of mutual respect and affection that grows with each passing year. With insight, vision and unparalleled kindness, Betty’s gifts have allowed New Bolton Center to grow in excellence and have greatly enhanced the Center’s ability to cure the ailing horse. Her love of Thoroughbreds and commitment to their well being is manifest in all she has done and continues to do for the School of Veterinary Medicine.

New Bolton Center has the reputation of being the finest equine clinic in the world, a preeminence that would have been unattainable without Betty Moran. Her philanthropy scintillates and inspires. No institution could ask for a more generous and caring friend.

So, it is with great pride that the University of Pennsylvania School of Veterinary Medicine awards the first silver Bellwether Medal to Elizabeth R. Moran.
Upcoming Events

May 2003

14
2:00-4:00 p.m.
Veterinary Medical Alumni Society
Executive Board Meeting
Ryan Veterinary Hospital at Penn

16
2:00-3:00 p.m.
Alumni Weekend 2003 Classes Without Quizzes Presentation
“Antibiotic Resistance: Malice in Wonderland”
by Dr. Shelley C. Rankin, Assistant Professor
Clinician Educator of Microbiology
Houston Hall, Golkin Room
3417 Spruce Street
Antibiotic resistant bacteria: Ever wondered what all
the fuss was about? Dr. Shelley Rankin tells it from
the bugs' perspective. What is an antibiotic, how and
why do bacteria develop resistance to antibiotics and
what can we do to combat the “super-bugs” of the
future?

17
Alumni Weekend 2003/Reunions
for Classes ending in “3” or “8”
For information, visit

19
School of Veterinary Medicine Class of 2003
Commencement
For information, visit <www.upenn.edu/commencement/>.

June 2003

13-15
An Evening in Old Philadelphia
Sponsored by the Evening at Old Saratoga Commit-
tee to benefit New Bolton Center and the historic
Devon Show Grounds in Devon, Pa.
Fabulous antique vehicles drawn by teams of one,
two or four horses will parade through Philadelphia
and its countryside. A black tie gala dinner-dance
and silent auction will be held at “Ardrossan” —
fabled home that inspired the movies, “The
Philadelphia Story” and “High Society.”
For information, contact Pat Hall at (610) 444-5800
x2500 or via e-mail at <phall@vet.upenn.edu>.

July 2003

20
6:30-8:30 p.m.
Alumni Reception
American Veterinary Medical Association
Annual Convention
Plaza F
Adam’s Mark Hotel
Denver, CO
For information, contact Joshua Liss at (215) 898-
1481 or via e-mail at <lissj@vet.upenn.edu>.

Fall 2003

Equine Short Courses for Horse Owners and Veterinarians
New Bolton Center
For information, visit <www2.vet.upenn.edu/labs/equinebehavior/02-03Courses/crs02-03.htm>.

March 2004

11-12
2004 Penn Annual Conference
Adam’s Mark Hotel
Philadelphia, PA
For information, contact Amy Bogdanoff at (215)
898-4234 or via e-mail at <bogdanof@vet.upenn.edu>.

Visit the School’s web site at www.vet.upenn.edu

Important Phone Numbers

Matthew J. Ryan Veterinary Hospital
of the University of Pennsylvania
24-Hour Emergency Service (215) 898-4685
Specialist Clinic Appointments (215) 898-4680

George D. Widener Hospital for Large Animals
at New Bolton Center
24-Hour Emergency Service and
Specialist Clinic Appointments (610) 444-5800

School of Veterinary Medicine
General Information (215) 898-5438