A Message from the Dean

Last November the American Association of Veterinary Medical Colleges, representing all the veterinary schools in the U.S. and Canada, held a conference at the National Press Club in Washington D.C., entitled, “An Agenda for Action: Veterinary Medicine’s Role in Public Health and Biodefense and the Obligation of Academic Veterinary Medicine to Respond.”

I am pleased to say that the conference was largely initiated and sponsored by Penn. The conference centered on the nature of the biological threats, either accidental or deliberate, that may affect human and domestic animal populations in North America. The role of the veterinary profession is emphasized in the executive summary: The training of veterinarians creates a cadre of professionals who are ideally suited to respond to and counter these threats, but prompt and sustained action by the profession and its leadership is required.

Equally important, those in positions of leadership in the United States must recognize and nurture this capability of the veterinary profession, as it is a precious and crucial national resource.

The call for prompt and sustained action refers to the ever increasing complexity of newly emerging, and re-emerging infectious disease, and the threat of drug-resistant pathogens.

World population growth, poverty, overcrowding, squalor, lack of health care, global warming, and our rapid transition to a global society, with a globalized food supply, all contribute to the complexity and reality of the threat. Pathogens, particularly those that in the past were brushed aside as causing bizarre diseases in far away places, are finding new niches and establishing infections in our own environment. West Nile virus encephalitis, Nipah virus encephalitis, SARS, mad cow disease, and most recently monkey pox, make this point abundantly clear as all are diseases transmissible to man.

Add to the above the threat of bioterrorism and the call for prompt and sustained action becomes urgently compelling. Since the tragedy of 9/11, and the torment of the anthrax episodes, the government has engaged in a highly publicized defense program against smallpox but it has yet to invest heavily in the nation’s public health infrastructure, in veterinary public health, epidemiology, and in research on infectious diseases of domestic and wild animals. Yet, I would predict that terrorist threats to the safety of the American food supply will create a level of fear no less destabilizing than the threat of smallpox.

The veterinary profession has a proud history of eradicating and controlling zoonotic diseases (those transmitted from animals to man) and eliminating diseases important to the health of domestic animals. Veterinarians were instrumental in removing bovine TB, equine glanders, brucellosis, rabies, and trichinosis, as threats to human health in the U.S., and in the elimination of foot-and-mouth disease, swine fever, Newcastle disease, and avian influenza as threats to domestic animals during the first half of the 20th century.

These extraordinary contributions are largely unknown because the profession has not done enough to educate the public. Those in leadership positions in our federal and state governments must now be enlightened about how much is at risk if the veterinary profession is not encouraged and given the means to become fully engaged.

Our profession, most particularly its academic community, must work to ensure that there are adequate personnel and fiscal resources to support infectious disease research on domestic and wild animals, the source of most new and emerging infectious diseases that endanger our health and food supply. Two years after 9/11, these resources are still distressfully inadequate.

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

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A plaque in memory of Dr. David Knight was placed in the cardiology suite at the Ryan Veterinary Hospital. Dr. Knight’s widow and their sons, Eric and Christopher, attended the ceremony.

Eric Knight, like his father, an avid bicyclist, made a special trip this spring. He and a group of friends rode more than sixty miles through Lancaster County, taking a route he and his father had planned for that day. Eric wore a sign that read “In Memory of Dad. He Planned to Ride Today.”

Eric Knight, Krystyna Knight, Christopher Knight and Dr. Gail Smith.
Teaching and Research Building News

By the fall of 2006, the southwestern gateway to the University’s campus changes. At that time faculty, students, and researchers will move into the Veterinary School’s Teaching and Research Building at the confluence of University, Baltimore, and Woodland Avenues. The Veterinary School, and its new building designed by the Polshek Partnership of New York City, will buttress one side of this new gateway through which thousands of cars pass every day.

While more than $46 million is in hand, the School is moving ahead on its fund-raising campaign to raise the remaining funds needed to begin construction—perhaps as much as another $8 million. “The final cost of the building will be known once cost estimation is complete,” says Mark Stuart, assistant dean for development. “We do have a good sense from other Penn building projects of our costs per square foot. The original feasibility study called for a $48 million price tag, but with rising construction costs and inflation over the last three years, that previous estimate could not hold.”

Fund-raising highlights

To date, faculty, staff, and alumni have “reserved” close to 160 seats in the building’s two classrooms. The next Bellwether will list the donors to the “Reserve A Seat” campaign. This issue includes a pamphlet so that our friends have an opportunity to participate.” This is most likely the single best faculty and staff fund-raising campaign ever for a Penn school in terms of participation and total dollars pledged,” says Stuart.

Adding to a previous gift of $500,000, the Allerton Foundation made another commitment of $120,000, making the foundation one of the largest contributors to the building effort so far. “Private family foundations have been very generous to the School. More than $4 million have been given or pledged, to date, by these organizations. Many of them came to know the School through contact as NBC or Ryan Hospital clients. Their generosity will ensure that we educate the next generation of talented, skilled veterinarians in the best possible environment for teaching and learning,” says Stuart.

The trust established through the estate of Anna Oschwald contributed almost $100,000 to the Teaching and Research Building through monthly distributions.

One of the members of the School’s Board of Overseers, Robert F. Fairchild, C’64, of New York City, and president of the House of Burgundy, recently committed $100,000 toward the addition of a “smart” classroom. This teaching space will have the latest electronics for classes of up to 20 students as well as group study sessions. A special feature of this space will be video connection to New Bolton Center and in particular, the Fairchild Aquaculture Building. “Bob’s gift allows us to bridge the 37 miles that divide our two campuses through the latest in conferencing technology. Students and faculty can remain in their respective locations instead of making a two-hour roundtrip. This enables us to offer greater contact between students and faculty on both campuses,” reports Dean Kelly.
Feathers, Scales, and Fur

by Susan I. Finkelstein

On a recent morning at the Ryan Veterinary Hospital, a curious sound could be heard above the meowing and barking that have become the wards’ constant chorus. There was no mistake: a goose was honking. The noise caused no special alarm to the Ryan staff, though; “Goose-Goose” was simply another patient.

After being mauled by a decidedly quarrelsome dog, Goose-Goose was in need of fixing. The domestic brown goose was brought to Ryan Emergency Service by his anxious owner, where his broken bill was set in place by an external metal device and will remain so until healing is complete. Because he must be fed pulverized grain through a feeding tube until his beak fully mends, Goose-Goose has become somewhat of a fixture at Ryan’s Special Species Medicine Clinic—waddling behind students, flapping his wings, and adding a distinct (albeit dissonant) voice to the animal cacophony that is the Ryan Hospital soundtrack.

Unusual pets like Goose-Goose can inspire the same levels of affection and devotion in their owners as do the more conventional feline and canine companions that inhabit most of our homes. (In fact, Goose-Goose’s owner expressed his gratitude to Ryan in the form of a $15,000 donation to the hospital, which will be used to purchase new rigid endoscopes for use in birds and other special species.) “They love their snake, turtle, or ferret just as much as another person loves a cat,” observes Dr. Karen Rosenthal, director of the Special Species Clinic, which was established in 2000. “They care deeply and will pull out all the stops to have their pets made well again.” One distressed guinea-pig owner recently paid several thousand dollars for the diagnosis and treatment of his cardiac-challenged pet.

Dr. Rosenthal and staff veterinarian Matthew Johnston, V’99, see all of the approximately 900 rabbits, rodents, birds, ferrets, reptiles, big cats, and sundry other exotic animals treated at the Clinic each year—a striking display of endurance by any measure. Dr. Avery Bennett, an internationally recognized exotic animal surgeon, presides over surgery cases. Of course, the assistance of fourth-year students on two-week rotations and of nurse practitioner Mary Taylor, who runs the ward and performs routine and repeat tests, complete the team that makes such a large and diverse case-load possible.

In addition to daily referrals from the Emergency Service, the Clinic provides wellness examinations, specialized diagnostics, and care for non-traditional pets. Diagnostic tests include advanced imaging studies such as ultrasonographic and echocardiologic examinations and computed tomography. Among the specialized surgeries offered at the Clinic are pet bird neutering and radical treatment of rabbit abscesses with antibiotic-impregnated beads.

One of the more peculiar types of companion animals cared for at the Clinic is the sugar glider, a nocturnal, five-ounce Australian marsupial that launches its tiny body between treetops much like a flying squirrel. Sugar gliders, which can live fifteen years if cared for properly, are colony animals that are happiest in multiglider households. They also tend to form a strong bond to one person, especially if acquired while still young; selling a glider after having it for several years is considered very cruel and almost inhumane. Gliders, attention cravers by nature, have even been known to die from loneliness when neglected by their owners.

The once-uncommon ferret, cousin to weasels, skunks, and otters, now makes its residence in millions of homes in the United States—and Clinic staff see many “businesses” of these domesticated pet-shop favorites (“business” is the collective name of a ferret group). “Ferrets are great pets, especially for teenagers,” says Rosenthal. “They are funny, easy to keep, and very gentle, as they have been bred for a long time and breeders have selected for a companion temperament.” Like sugar gliders, ferrets that do not receive enough attention and interactive play with their owners, or are caged all day, can become depressed.

When it comes to physical illnesses, pets such as birds, rodents, and rabbits often do not exhibit symptoms until they are gravely ill, making treatment difficult, if not impossible. Because these small animals are prey species, visible signs of weakness make them vulnerable to attack in the wild. Removing animals from their natural habitats does not necessarily alter instinctive behaviors.

The Humane Society of the United States estimates that some 50 million birds are kept as pets in the United States, placing them behind cats and just ahead of dogs in terms of popularity. Unlike cats and dogs, however, some of the larger pet birds can live up to 100 years, during which time they require specialized diets, chaperoned time outside of their cages, and lots of attention and intellectual stimulation. “Birds are not dogs with feathers,” says Rosenthal. Emotionally neglected pet birds can develop psychological problems that include aggression toward others or compulsive self-mutilation. Feather picking, a common problem in stressed birds, occurs when the bird substitutes chewing for preening, sometimes causing significant loss of feathers. “Feather picking has physical, psychological, behavioral, and husbandry aspects,” says Johnston. “We work with Dr. Ilana Reisner, director of the Ryan behavior clinic, and her group to help the birds.” The exotic animal doctors and behaviorists teach owners how to handle and properly interact with their birds.

Reptiles, too, are enjoying a boom as com-
Companion animals: an estimated 3 percent of American households own 7.4 million reptiles. "People buy exotic pets, particularly reptiles, in pet stores," says Rosenthal, "and are not told how to keep these animals, how to feed them, or how to handle them. They are kept under improper light and not given the right food. Remember, many reptiles, particularly iguanas and some species of snakes, live in trees, in a humid environment." A common misconception about the feeding of snakes—which have a 20- to 30-year lifespan under optimal conditions—is that they must eat live animals. Not so, says Rosenthal. "It can be dangerous, as the rodent might attack the snake in self-defense and inflict wounds. It's much better to feed killed rodents, which can be purchased."

People possessing exotic pets often try to alter the nature of the animal rather than the nature of the care they provide. Confinement in small barren enclosures, chaining, beating "into submission," or even painful mutilations such as declawing and tooth removal are tragic ways that some owners try to make their nontraditional companion animals more "user friendly." Clearly, much can go awry for the many exotic pets that share our homes.

Exotic animals aren’t the only ones who can suffer adverse effects in the households and communities where they have been transformed into pets. Across the country, incidents have been reported in which some of the larger exotic pets, such as big cats, have attacked humans and other animals, sometimes after escaping from their enclosures, oftentimes while still in the home. Even animals commonly believed appropriate for children—such as hamsters, gerbils, or mice—"can be nasty and they bite," says Dr. Johnston. "A rat would be a better pet. Rats are docile, intelligent, and fastidiously clean. They use a litter pan and come in lots of colors. They have great personalities and live two to three years."

Giant Gambian rats, however, are not as desirable as their domesticated kin. In June, after an outbreak of monkeypox in three Midwestern states, federal health officials indefinitely banned the import, sale, and shipment of Gambian rats in the United States; prairie dogs and other members of rodent species indigenous to Africa also were part of the ban. Monkeypox, a smallpox-related virus, is believed to have originated in Gambian rats and subsequently transmitted to prairie dogs at an Illinois pet store where both species were being housed together. At least 57 people who then handled the infected prairie dogs fell ill. (Monkeypox joins several animal-related diseases from other parts of the world that have appeared in the United States in recent years. AIDS is believed to have crossed to humans from African chimpanzees. West Nile virus—previously confined to Africa, western Asia, and the Middle East—is spread by mosquitoes and birds. Sudden acute respiratory syndrome, or SARS, which has killed at least 812 people worldwide since it first surfaced in November in southern China, likely had its origins in Chinese wildlife markets.)

This is not the first time the government has restricted certain pets due to public-health concerns. African pygmy hedgehogs enjoyed a brief heyday as pets in Pennsylvania households—and made their share of appearances in the Special Species Clinic—before the Pennsylvania Game Commission barred all ownership last year due to the possibility that they can carry foot-and-mouth disease. In 1975, federal officials banned the sale of very young pet water turtles when it became known they were the source of 14 percent of all human salmonellosis cases in the country. The same year, officials banned imported monkeys and other nonhuman primates as pets because they can carry serious diseases like tuberculosis.

Reptiles, including all types of snakes and lizards, also pose particular safety risks. Nearly 90 percent of all reptiles carry salmonella, and humans can be infected by touching a contaminated surface or from contact with an animal’s feces. In addition, many snakes, the most common pet reptile, can cause serious injury through a bite or constriction.

Despite all the inherent risks and difficulties involved in owning an exotic pet, the growing interest in these animals has led to an increase in the amount of information pertinent to their veterinary care, nutrition, and proper housing requirements. Exotic-pet owners today have access to an unprecedented amount of knowledge through clubs and societies, specialty magazines, Internet sites, and scientific publications. Realizing the importance of informed owners in the health and longevity of their nontraditional companion animals, the Special Species Clinic incorporates education about responsible pet ownership with state-of-the-art diagnostics and treatment.

Appointments for special species can be made by calling the Ryan Veterinary Hospital at (215) 898-4680. In addition, the Emergency Service is available 24 hours a day for these animals, and emergency clinicians always have access to a member of the Special Species Medicine Clinic for consultation. The Emergency Service can be reached at (215) 898-4685.

Please check with state agencies to determine which animals are legal as pets.

Dr. Johnston has recently left for the Colorado State University College of Veterinary Medicine.
Penn Researchers Make Manure a More Environmentally Friendly Fertilizer

By Susan I. Finkelstein

In keeping with the increasing overall awareness of environmental issues, dairy, hog, and poultry farmers across the country face growing governmental regulation and public demand to manage a huge quantity of animal manure in an environmentally friendly manner. Using animal manure as a fertilizer is problematic because the large amount of soluble phosphorus in manure is prone to runoff losses in waterways, contributing to water-quality problems in many streams, rivers, and estuaries.

Scientists at the School have found an economical and effective way to stabilize manure phosphorus by lowering its solubility using fly ash—the fine, often airborne particles derived from the burning of coal. When fly ash materials were mixed with dairy, hog, or broiler manures, water-soluble phosphorus decreased by up to 80 percent. Another additive, alum (aluminum sulfate), also reduced water-soluble phosphorus dramatically. Fly ash materials are easily obtainable at minimum cost from coal-combustion power plants. The results of the 2001–2002 study, which was funded by the United States Environmental Protection Agency’s Chesapeake Bay Program, appeared in the July–August issue of the Journal of Environmental Quality by the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America.

In manure that has been treated with fly ash or alum, highly water-soluble phosphorus shifts to other forms that are less soluble and therefore more stable. The mechanisms responsible for these shifts are precipitation, absorption, and entrapment. Scientists believe the shifts are desirable and beneficial because the phosphorus available for crops would be similar over the long term, while its environmental losses would be substantially reduced.

“Treating manure with alum or fly ash prior to field application can be a management tactic particularly useful on farms where manure has to be spread during late fall to early spring. These are sensitive times when crops are not growing and phosphorus and other nutrients cannot be utilized while runoff potential is the highest. With treated manure, phosphorus would have a better chance to stay in the fields until the crops can use it rather than being dissolved in runoff waters and getting into streams and rivers,” states lead scientist Zhengxia Dou, Ph.D., at the Center for Animal Health and Productivity at New Bolton Center. Dou was joined in the research by scientists J. D. Toth and James Ferguson, V’81, both from Penn; G. Y. Zhang of the Soil Science Institute, Chinese Academy of Sciences, Nanjing, China; and W. L. Stout, of the U.S.D.A.’s Agricultural Research Service in University Park, Pa.

The amounts of aluminum or heavy metals in soils that have been fertilized with alum- or fly-ash–treated manure are well below the natural levels and within government-regulated limits. “Of course, soils and crops in fields receiving treated manures should be monitored through proper testing to safeguard the health of animals and humans,” adds Dou. An integrated, whole-farm management program is most effective in helping producers improve nutrient efficiency, enhance productivity, and minimize adverse environmental consequences.

New Section at New Bolton Center

New Bolton Center has added a Section of Emergency/Critical Care and Anesthesia. Effective July 1, 2003, Emergency Service, Intensive Care and Neonatal Units, and Anesthesia are organized as one cohesive unit. “We have worked on this since 1999,” says Dr. Pamela Wilkins, assistant professor of medicine and chief of the new section. “There is a great need for large animal emergency/critical care specialists; most of the of veterinarians board certified in veterinary critical care are companion animal specialists. There are very few places where people can train in large animal emergency and critical care medicine as there are only ten active clinicians board certified in this discipline nationwide.”

Dr. Wilkins is one of them. Under the auspices of the new section, the School is developing a residency program in large animal emergency/critical care medicine. “An academic unit puts people of like minds together,” says Wilkins. “This is very beneficial for residents and students. It is an emerging specialty and we are formalizing the training. New Bolton Center, with its high caseload, is well suited as a training ground for large animal emergency/critical care veterinarians.”

New Bolton has always provided 24-hour emergency care and has a long-standing commitment to critical care. Clinicians in the Connolly Intensive Care Unit and the Graham French Neonatal Section have made great strides in the care of critically ill large animals in the past decade. There is a special emphasis on neonatal care, particularly during foaling season. These services are augmented by outstanding sections of surgery and medicine and a superb nursing staff. The critical care residents will be exposed to all large animals: horses, cows, llamas, alpacas, sheep, goats, pigs, and occasional zoo animals.

The faculty members in the new section are: Drs. Barbara Dallap, V’94, Bernd Driessen, Lin Klein, V’70, Jon Palmer, V’77, Lawrence Soma, V’57, Louise Southwood, and Pamela Wilkins. Staff veterinarians Drs. Brett Dolente, V’96, Janet Johnston, V’96, and Kim Olson are also members of the section. Currently, the residents at New Bolton Center training in Emergency and Critical Care are combining this training with standard residency training in allied specialties, such as surgery, medicine, and anesthesia. One focus of the Section of Emergency/Critical Care and Anesthesia will be to formalize training standards for residents in Large Animal Emergency and Critical Care, with a goal of being able to offer standard track training in this emerging specialty.

Dr. Frank Luca, assistant professor in animal biology, receives the Pfizer Award for Research Excellence from Dr. Pedro Lichtinger, president of the Pfizer Animal Health Group.
Scientists Produce Mouse Eggs from Embryonic Stem Cells

by Steven Bradt

Researchers at the School have created the first mammalian gametes grown in vitro directly from embryonic stem cells. The work, in which mouse stem cells placed in Petri dishes—without any special growth or transcription factors—grew into oocytes and then into embryos, was reported in early May on the website of the journal Science.

The results demonstrate that even outside the body embryonic stem cells remain totipotent, or capable of generating any of the body's tissues, said lead researcher Dr. Hans R. Schöler, professor of reproduction medicine and director of Penn's Center for Animal Transgenesis and Germ Cell Research.

"Most scientists have thought it impossible to grow gametes from stem cells outside the body, since earlier efforts have yielded only somatic cells," said Schöler. "We found that not only can mouse embryonic stem cells produce oocytes, but that these oocytes can then enter meiosis, recruit adjacent cells to form structures similar to the follicles that surround and nurture natural mouse eggs, and develop into embryos."

Schöler said oocyte development in vitro may offer a new way for embryonic stem cells to be produced artificially, sidestepping the ethical concerns articulated by President Bush and others. Implanting a regular nucleus from any of the body's cells into such an oocyte would yield a totipotent stem cell.

The findings may force legal revisions in nations such as Germany whose lawmakers, assuming that stem cells' potency outside the body was limited, have passed legislation banning research with totipotent stem cells.

The Penn scientists pulled off this feat using a gene called Oct4 as a genetic marker. After the stem cells were plated in a regular Petri dish—densely but without special feeder cells or growth factors—the scientists used fluorescent markers linked to Oct4 and other telltale genes to assay oocyte development. After 12 days in culture, the cells organized into colonies of variable size. Shortly thereafter, individual cells detached from these colonies.

"These germ cells then accumulated a coating of cells similar to the follicles surrounding mammalian eggs," Schöler said. "Starting on day 26, oocyte-like cells were released into the culture—similar to ovulation—and by day 43, embryo-like structures arose through parthenogenesis, or spontaneous reproduction without sperm."

In the experiment described in Science, both male- and female-derived stem cells developed into female gametes. Schöler and colleagues now plan to test whether oocytes developed in vitro can be fertilized.

"We would like to use these oocytes as a basis for therapeutic cloning, and hope that our results can be replicated with human embryonic stem cells," Schöler said.

Schöler was joined in the research by Karin Hübner, James Kehler, Rolland Reinbold, Rabindranath de la Fuente, and Michele Boiani of Penn's School of Veterinary Medicine; Lane K. Christenson, Jennifer Wood, and Jerome Strauss III from Penn's School of Medicine; and Guy Fuhrmann of the Centre de Neurochimie in France. The work was funded by the National Institutes of Health, the Marion Dilley and David George Jones Funds, the Commonwealth and General Assembly of Pennsylvania, and the Association pour la Recherche sur la Cancer.

Penn President Judith Rodin to Step Down in June 2004

Judith Rodin, CW’66, president of the University of Pennsylvania since 1994, announced on June 20, 2003, that she intends to step down from the office when she completes her 10-year term in June 2004. Rodin became Penn’s president on July 1, 1994, coming to Penn from Yale, where she had been Provost. She was the first woman to be named to the presidency of an Ivy League institution, and the first Penn alumna to serve as president.

During nearly a decade of service, Rodin has guided the University through a period of unprecedented growth and development that has transformed Penn’s academic core and dramatically enhanced the quality of life on campus and in the surrounding community. Under her leadership, Penn has invigorated its resources, doubling its research funding and tripling both its annual fundraising and the size of its endowment; created Penn Medicine; launched a comprehensive and widely acclaimed neighborhood revitalization program; attracted record numbers of undergraduate applicants, creating Penn’s most selective classes ever; risen in the U.S News & World Report rankings of top national research universities from 16th in 1994 to 4th in 2002; established new interdisciplinary institutes and created over a dozen groundbreaking interdisciplinary, multi-school, undergraduate, and graduate degree programs throughout the University; planned or completed new buildings and major renovations in every school and center; and expanded its international programs and collaborations. Faculty excellence has risen dramatically and there has been significant investment in leading-edge graduate and professional degree programs.

“Serving Penn these past years has been an extraordinary privilege and an exhilarating experience,” Rodin said. “This is a remarkable community of amazing depth and breadth, and I am grateful to the Trustees for their support and for giving me the opportunity to work with so many talented and creative individuals. I am very proud of all that our faculty, staff, students, alumni and community partners have together enabled Penn to accomplish.

“The decision to step down has been an extremely difficult one for me to make, but I believe it is the right time for Penn. We have successfully fulfilled our first strategic plan and with the next plan conceived and ready to launch, it is time for the next era of leadership. I love this institution and will always remain a part of it.”

The executive committee of Penn’s Board of Trustees will appoint in the months ahead a presidential search committee, to be comprised of trustees, faculty, and students, which will be chaired by James S. Riepe, W’65 WG’67, the Board chairman. For more information, visit the “Judith Rodin: An Enduring Legacy” website at <www.upenn.edu/pennnews/rodin_legacy/>. 
Dr. Phillip Scott, professor of immunology, has been awarded the 2004 Stoll-Stunkard Memorial Lectureship by the American Society of Parasitologists. The honor is given to a researcher whose prominence in basic research is evident, and who is not necessarily a parasitologist, but one whose research might enhance investigations on parasites, hence fostering cross-fertilization of ideas and approaches. Dr. Scott is recognized for his studies on the immune response to the protozoan parasite, *Leishmania*. He demonstrated that distinct T-cell subsets are associated with resistance and susceptibility to these parasites.

Sherrill Davison, V’83, associate professor of poultry medicine, Susan Casavant, and the EDGIS unit were awarded the “2003 Pennsylvania Award for Excellence in Geographic Information Technology for the Visionary Application of Geospatial Technology to Serve the Citizens of Pennsylvania.” Presented at the 2003 Pennsylvania GIS Conference in Harrisburg, the award honors government, business, an academic organization, or exceptional individuals working in the field of Geographic Information Technologies who have provided exemplary service to the citizens of Pennsylvania. The work being done at New Bolton Center focuses on mapping the locations and attribute information of the poultry, swine, dairy, and cattle farms in Pennsylvania primarily for epidemiological purposes.

In June, Dr. Davison attended the Northeastern Conference on Avian Diseases in Portland, Maine and presented two papers entitled: “The Use of Geographical Information System Technology in the Poultry Industry,” and “Detection of Mycoplasma gallisepticum in Layers Using Sentinel Turkeys.” Dr. Davison conducted the Board meeting of the American College of Poultry Veterinarians in July during the AVMA meeting in Denver. She is Secretary/Treasurer of the ACPV and has held the position for four years.

Chick Weisse, V’98, lecturer in surgery, passed his board exams and is now a diplomate of the American College of Veterinary Surgeons. At the invitation of a specialty practice in San Diego, Dr. Weisse and Dr. Jeff Solomon of HUP traveled there. They performed percutaneous transvenous coil embolizations of two intrahepatic shunts in a dog and a cat. They also lectured.

Dr. Weisse received a grant from the Morris Animal Foundation to study “Magnetic Resonance Imaging of Canine Focal Sclerotic and Hepatic Lesions,” the co-investigators are Drs. Clifford, Skorupski, Sorenmo, Pretorius, Siegelman, Drobatz, and Solomon.

Dr. Adrian R. Morrison, professor of behavioral neuroscience, was recognized as a “Significant Early Contributor” to the field of modern sleep research at the annual meeting of the Sleep Research Society in June in Chicago where REM sleep was first recognized 50 years ago.

The meeting was held jointly with the American Academy of Sleep Medicine and the World Federation of Sleep Research Societies. As outgoing president of WFSRS, he chaired the Closing Symposium: Past Accomplishments and New Visions for Sleep Research around the World. Also, the International Union of the Physiological Sciences has appointed Dr. Morrison to their newly formed Committee on Ethics. In July, he lectured on Developing an Ethical Perspective on the Use of Animals in Research at the annual conference for teachers sponsored by the American Physiological Society.

Dr. Zhengia Dou was promoted to associate professor of agricultural systems and James Ferguson, V’81, was promoted to professor of nutrition.

In March, Dr. Robert Eckroade, associate professor of poultry pathology, presented six papers in Japan entitled “Control of Avian Influenza in the United States,” “Avian Influenza in Chile,” “Avian Influenza in Mexico,” “Current Exotic Newcastle Disease in Southern California, March 2003,” “Animal Welfare in the United States,” and “The Veterinary School at the University of Pennsylvania.”

In July, he conducted the annual meetings of the American Association of Avian Pathologists during the AVMA convention in Denver. Dr. Eckroade is celebrating his 22nd and final year as Secretary/Treasurer and CEO of the AAAP. He was presented a Special Appreciation Award by AAAP President Dr. Syed Naqi for his untiring and superb leadership and service. The award was made possible by the generous contributions of the AAAP membership.

David M. Nunamaker, V’68, Jacques Jenny Professor of Orthopaedic Surgery, was the keynote speaker at this year’s Voorjaarsdagen meeting in Amsterdam in April. The lecture was “On Bucked Shins” and “On Bone and Fracture Healing.”

Dr. Leszek Kubin was promoted to research professor of physiology. The Heart, Lung, and Blood Institute, NIH, awarded Dr. Kubin a new five-year research grant to study the relationship between respiratory disorders during sleep and central neural mechanisms of diabetes and related metabolic disorders.

Dr. Craig Clifford, former resident in oncology at the Ryan Hospital, passed the oncology boards and is now a diplomate of the American College of Veterinary Internal Medicine in the specialty of oncology. Dr. Clifford presented his MRI study on the characterization of hepatic and splenic lesions in the canine at the recent ACVIM meeting; he received the Greg MacEwen Young Investigator Award provided by Heska.

Perry Habecker, V’81, staff pathologist, and Dr. Robert Poppenga, associate professor of toxicology, are co-investigators on a three-year National Oceanic and Atmospheric Administration grant to study marine mammals and to perform complete autopsies and toxicologic analyses of all marine mammals recovered by the New Jersey Marine Mammal Stranding Center.

Dr. Cynthia Otto, associate professor of critical care, spoke at the Voorjaarsdagen meeting in Amsterdam in April and at the AVMA meeting in July.

Dr. Eric Gingerich, staff veterinarian in the laboratories of avian medicine and pathology, presented papers on a number of poultry diseases at several meetings: the North Atlantic Poultry...
Health and Management Conference in Portsmouth, N.H.; Penn State University Poultry Management and Health Seminar in Manheim, Pa.; Layer Health Management School at Purdue University; and Northeastern Conference on Avian Diseases in Orono, Maine.

Dr. Roselyn Eisenberg, professor of pathobiology, was elected a Fellow of the American Academy of Microbiology in April, 2003. The AAM is the honorific leadership group within the American Society for Microbiology, the world’s oldest life science organization. Fellows are elected through a highly selective, annual, peer review process, based on their records of scientific achievement and original contributions that have advanced microbiology.

Dr. Jorge Guerrero, adjunct professor of parasitology, has been recently appointed to the National External Advisory Committee of the College of Veterinary Medicine of the University of Illinois.

Dr. Ina Dobrinski was promoted to associate professor of reproduction. She was invited to teach at the Woods Hole Course “Frontiers in Reproduction” and received the following grants: from NIH/NICHD for “Transgenic Goats Produced by Germ Cell Transplantation,” and from NIH/NCRR for “A Novel Approach to Germ-Line Preservation in Macaques.”

Dr. Fabio Del Piero, assistant professor of pathology, was the 2003 recipient of the Jurak Award for outstanding contribution to comparative pathology. Members of the European Society of Pathology and the Academy of Medical Sciences of Croatia presented this award to Dr. Del Piero in recognition of his efforts to present and study diseases involving both humans and animals and to keep a link between veterinary and medical sciences. Dr. Del Piero has also become a member of the scientific committee for the Jurak Symposium of Comparative Pathology.

Mark Haskins, V’69, professor of pathology and medical genetics, presented a talk at the Southwest Foundation for Biomedical Research, San Antonio, Texas, “Intravenous Retroviral Gene Therapy for Canine Mucopolysaccharidosis VII.” At the American Society for Gene Therapy, Washington, D.C., he was chair and presenter at a workshop on “Genetic Diseases: Gene Therapy for Lysosomal Storage Diseases,” and was asked to host a Meet the Expert for Lunch session on “Gene Therapy for Lysosomal Storage Diseases Using Large Animal Models.” Haskins was appointed to a three-year term as the Chair of the Scientific Advisory Board of the National Mucopolysaccharidosis Society.

Dr. Tracy Bale has joined the faculty as an assistant professor of neuroscience. Her research interests are in the neuroendocrinology of stress and the genetics of stress-related disorders including obesity and depression.

Dr. Alex Reiter, lecturer in dentistry, gave talks in April on feline dentistry and oral pathology at the University of Veterinary Medicine, Vienna, Austria. In May he lectured in South Africa at Cape Town, Durban, and Pretoria, and in July at the World Veterinary Dental Congress in Kyoto, Japan.

Gail K. Smith, V’74, professor of orthopedic surgery, Tom Gregor, Dr. Pamela McKelvie, V’81, and Dr. Paster presented a PennHIP® training seminar affiliated with the AVMA meeting in Denver, the first PennHIP seminar on the road since PennHIP returned to Penn. Dr. Smith was an invited speaker in Birmingham, U.K. at both the British Small Animal Veterinary Association and the British Veterinary Orthopaedic Association in April 2003.

Dr. Eric Parente was promoted to associate professor of surgery. Parente, Dr. Christine Adreani, V’01, resident in surgery, and Dr. Dean Richardson, Charles W. Raker Professor of Surgery, were awarded a Firestone grant to investigate the benefits of gene therapy to enhance reinnervation for treatment of laryngeal hemiplegia.
The Veterinary School’s teaching awards were presented during the annual Student Government Dinner Dance on April 26. This year, Philadelphia’s 30th Street Station provided the backdrop for an evening attended by 250 students, faculty, and staff.

Associate Dean Jeffrey A. Wortman, V’69, standing in for the dean, presented the Dean’s Award for Leadership in the Basic Sciences to Dr. Olena Jacenko, associate professor of physiology; the Dean’s Award for Leadership in Clinical Science was presented to Dr. Billy Smith, assistant professor of medicine in New Bolton Center Field Service. Dr. Smith also received the Carl J. Norden Distinguished Teacher Award.

The two Dean’s Awards honor one faculty member from the clinical departments and one from the basic science departments who have made outstanding contributions to teaching their disciplines. The Norden Award was established in 1963 “to recognize outstanding teachers who, through their ability, dedication, character, and leadership, contribute significantly to the advancement of the profession.”

The four classes honored the faculty members they considered to be outstanding teachers. The Class of 2003 presented awards to Dr. Corinne Sweeney, professor of medicine, and Dr. Kenneth Drobatz, associate professor of critical care medicine. The Class of 2004 honored Raymond Sweeney, V’82, associate professor of medicine. Dr. James Lok, associate professor of parasitology, received the Class of 2005 Award. The Class of 2006 presented its award to Dr. Paul Orsini, director of gross anatomy.

Cynthia R. Ward, V’87, assistant professor of medicine, was presented the Veterinary Medical Alumni Society Excellence in Teaching Award, which is presented annually, based on the recommendations of recent graduates; it is funded by the VMAS.

The Senior Class Resident Awards were presented to Dr. Ariel Mosenco, at the Ryan Veterinary Hospital, and Dr. Jennifer Smith, at the George D. Widener Hospital. The Senior Class Intern Awards were presented to Dr. Vanessa Butler (Widener) and Dr. Stephen Mehler (Ryan). The class honored technicians Paula Emma (Ryan) and Emily Zug (Widener).

Other awards presented were: The Jules and Lucy Silver Award to Dr. Dan Fletcher (Ryan); the Interns’ Award to Dr. Steven Cole (Ryan); the Resident’s Award to Dr. Kenneth Drobatz; the Boucher Award to Dr. Sophy Jesty; the Harcum College Technician Award to Eileen Rule and Donna Sisak (Ryan); the Gretchen Swartz Award to Jennifer Wrigley; and the Senior Student Patient Care Awards to Charles Arensberg and Holly Connolly (Widener) and Jill Abraham and Meredith Daly (Ryan).

The Veterinary Medical Student Government honored Barbara Cavanaugh, librarian, and Dr. Corinne Sweeney.
New Social Worker at Ryan Hospital

Ms. Kathleen Dunn, the Ryan Veterinary Hospital’s chief of social work retired at the end of July. She came to the hospital in 1986 as a social worker and has helped countless clients get through difficult times. Over the years many letters from clients have expressed their gratitude to Kathleen for her help and many students, clinicians, and staff have leaned on her as well. She has been particularly helpful in oncology and emergency services. The grief support group she founded is recognized as the first of its kind in a university veterinary teaching hospital and has provided emotional support for clients of Ryan as well as for clients of other veterinarians.

Jodi L. Levine has been appointed as the Ryan Veterinary Hospital’s new social worker. The social worker position has been restructured and much of Jodi’s duties will involve research, collaboration with other institutions, academic pursuits, working with Dr. James Serpell, associate professor of humane ethics and animal welfare, grant writing, and teaching. She will also be available to Ryan Veterinary Hospital clinicians when their clients are in need of social work services.

Ms. Levine holds a Bachelor of Arts degree from American University and a Master of Social Work degree from Penn. She has worked as a social work intern at the David Lawrence Center in Naples, Florida and as a social work intern at Greater DC Cares in Washington, D.C. She served an internship here when enrolled in the University’s School of Social Work. She also served as an intern at Thomas Jefferson University Hospital in the Department of Family Practice.

Coal Creek Joker: 1982–2003

The School lost a devoted, loyal, hard-working member of its family on May 19, 2003. Joker, one of three donated registered Morgan horses, who had been the linchpin of the carriage program at New Bolton Center, succumbed to colic at the age of 21. Joker and his half-brother, Promise, have represented the School’s New Bolton Center at numerous prestigious events over the last six years. They have participated in drives at places as diverse as Saratoga Springs, N.Y., at the start of race season, the Devon Horse Show, Winterthur Steeplechase Races, and Ag Progress Days at Penn State. The team has done demonstrations for driving clubs and 4-H clubs, as well as a number of other community outreach or fundraising events. Joker was that once-in-a-lifetime horse—a perfect temperament, a noble work ethic, and a true “poster” horse for all that is best in the Morgan breed.

Everyone at New Bolton Center is deeply grateful to him for all his hard work, and extend sincere thanks to Mr. Art Glatfelter, who in 1997 generously donated Joker and Promise to the driving program, along with harness sets and a carriage. In 1999, he donated a third Morgan, Sammy, to the School. Through their efforts, the School’s carriage program reached new heights as an educational, public relations, and outreach tool. Joker will be greatly missed, his stall will be very difficult to fill, but his contribution to New Bolton Center will always be remembered.

Correction

In Bellwether 56 we reported that Brett Dolente, V’96, received funding from the Bernice Barbour Foundation and the AVMA Foundation. The AVMA Foundation was incorrect; the grant was from the ACVIM Foundation and the Barbour Foundation to begin a clinical trial using a novel heparin in horses with coagulothapies.

The Second International Equine Conference on Laminitis and Diseases of the Foot will be held November 10 and 11, 2003 at the Breakers Resort in Palm Beach, Fla. The conference is organized by Dr. James Orsini, associate professor of surgery, and is supported by Mr. and Mrs. John K. Castle in loving memory of their horse, Spot.

The two-day program includes topics on diagnostic and therapeutic protocols, treatment options, pain management, nutritional considerations, and ethical concerns in the treatment of horses with laminitis. The program is open to veterinarians, who will receive continuing education credit, and owners, breeders and trainers who have their own breakout sessions.

The conference offers scientific presentations, and the world-renowned faculty will provide insight on the latest laminitis diagnostic and treatment options. A complete listing of the faculty and program can be found on the web at <www.slackinc.com/laminitis>.
The Class of 2003 brought the number of veterinarians who have graduated from Penn to 5,944. This year’s class of 110 is composed of 79 women and 31 men.

The 118th Commencement took place on May 19 at the Zellerbach Theatre on campus. Friends and families cheered as the graduating class walked on stage. Associate Dean Jeffrey A. Wortman, V’69, presided over the ceremonies for the Dean. The graduating class had requested two faculty speakers—Dr. Corrine R. Sweeney, professor of medicine, and Ray Sweeney, V’82, associate professor of medicine, who took this last opportunity to encourage their students to use the skills acquired at Penn and to leave their mark on the profession.

The presentation of diplomas and hooding is an emotional moment. This year Dr. Olena Jacenko, Dean’s Awardee for Leadership in Basic Science Education; Dr. Billy Smith, Carl J. Norden Distinguished Teacher Awardee and the Dean’s Awardee for Leadership in Clinical Science Education; and Deputy Associate Dean Charles D. Newton, did the honors.

Class President Jason Jon Cordeiro presented comments and received the Class Flag from James V. Stewart, V’68, president, Veterinary Medical Alumni Society. Associate Dean Wortman, assisted by Dr. Kenneth J. Drobatz, Lindback Distinguished Teacher Awardee, presented the prizes and senior awards. John L. Enck, Jr., V’70, president of the Pennsylvania Veterinary Medical Association, administered the oath of office.

After all the formalities were over, graduates and their families celebrated on the plaza behind the Annenberg Center.
Class of 2003

Jill Lauren Abraham**
Alison Joy Abramson
Victoria Weber Achenbach
Jennifer Anne Adler
Charles Conrad Miller Arensberg*
Elizabeth Noel Ballard
Karen Marie Becker
Brett Edward Begley
Jeffrey Benjamin Bell
Lisa Hillary Bernstein
David Bessler
Kenneth Louis Bollens III
Todd Michael Brooks*
Kristin Kathleen Burton*
Gina Marie Cairone*
Nani Cha
Jessica Ann Chavkin***
Holly Lynn Shaginaw Connolly**
J.B. Lippincott Prize
Kimberly Anne Johnston
1930 Class Prize in Surgery
Kimberly Anne Johnston
Auxiliary to the American Veterinary Medical Association Prize
John Anthony Vinciguerra
Faculty/Student Chapter, AVMA Prize
Jeffrey Andrew Sachar
American Animal Hospital Association Award
Srinivas Lingareddy
American Association of Feline Practitioners Award
Jessica Ann Chavkin
Class of 2003

Leonard Pearson Prize
Erik Steven Herrema
J.B. Lippincott Prize
Kimberly Anne Johnston
1930 Class Prize in Surgery
Kimberly Anne Johnston
Auxiliary to the American Veterinary Medical Association Prize
John Anthony Vinciguerra
Faculty/Student Chapter, AVMA Prize
Jeffrey Andrew Sachar
American Animal Hospital Association Award
Srinivas Lingareddy
American Association of Feline Practitioners Award
Jessica Ann Chavkin

American College of Veterinary Radiology Award
Erik Steven Herrema
American College of Veterinary Surgeons Prizes
Small Animal Surgery Prize
Herbert William Maisenbacher III
Large Animal Surgery Prize
Kimberly Anne Johnston
Everingham Prize for Cardiology
Shannon Kerry Moriarty
Field Service Prize
Ross Landon Springer
The Peter Francis Anatomy Award
Lisa Perlman Harwood
Hill’s Award
Leigh Ann Perry
American College of Veterinary Radiology Award
Erik Steven Herrema
American College of Veterinary Surgeons Prizes
Small Animal Surgery Prize
Herbert William Maisenbacher III
Large Animal Surgery Prize
Kimberly Anne Johnston
Everingham Prize for Cardiology
Shannon Kerry Moriarty
Field Service Prize
Ross Landon Springer
The Peter Francis Anatomy Award
Lisa Perlman Harwood
Hill’s Award
Leigh Ann Perry
Iams/VECCS Award for Proficiency in Veterinary Emergency and Critical Care
Meredith Leigh Daly
James Hazlitt Jones Prize in Biochemistry
Lisa Perlman Harwood
Large Animal Medicine Prize
Christine Ashley Starer
Large Animal Surgery Prize
Charles Conrad Miller Arensberg
Merck Awards
Small Animal Award
Jill Lauren Abraham
Large Animal Award
Sarah Colleen Holler
1956 Class Medal for Achievement in Pathology
Jessica Ann Chavkin
George M. Palmer Prize
Sunny Geiser
Pharmacia Animal Health Proficiency Awards
Companion Animal Award
Lisa Perlman Harwood
Equine Award
Charles Conrad Miller Arensberg
Food Animal Award
Nathan Daniel Harvey
Charles F. Reid Sports Medicine and Imaging Award
Kimberly Anne Johnston
Lynn Sammons Food Animal Award
Tony Luke Ebling
Morris L. Ziskind Prize in Food Animal Medicine
Amber Joelle Itle
Morris L. Ziskind Prize in Public Health
Meredith Leigh Daly

*** Summa Cum Laude
** Magna Cum Laude
* Cum Laude
Racetrack Veterinarian to VMAS President: The Purse Goes to Penn

by Joan Capuzzi Giresi, C’86 V’98

When it comes to tapping into his clinical instincts, to thinking through a case, Penn gave racetrack veterinarian James V. Stewart, V’68, the inside track. In return, Stewart, the new Veterinary Medical Alumni Society (VMAS) president, has given Penn his steadfast devotion.

He hopes his loyalty will be contagious: “It’s part of my job to pass this spirit on,” says Stewart, who began his two-year term in May.

Stewart credits Penn for helping develop his medical intuition. Stewart recalls William B. Boucher, V’40, professor of medicine, who told him, “You only see what you look for and that looking involves using all of your senses.”

Stewart ticks off several examples: the infections that can be diagnosed—by smell alone—the moment you enter a stall. The numerous orthopedic lesions he has characterized without an x-ray. The many tentative diagnoses he has made—and proven correct—in contradiction to what a client had insisted was the malady.

“If you take a thorough history and use your eyes, ears, and hands well enough, you can figure out what is going on,” Stewart maintains. “It’s very easy as a veterinarian to have your clients direct you,” he says. “You have to direct them…. You can do this best when you know the case better than the owner does.”

Stewart himself needed little direction in finding his equine calling. It would seem like destiny: His father emigrated here from Ireland by stowing away with a load of horses, and eventually became a horse trainer. His mother was one of the first women licensed to train racehorses in this country. The two met through the industry, married, and raised Jim on a sprawling Thoroughbred farm in Elkton, Md. Stewart’s paternal grandfather had a live-stock farm adjacent to his parents’ spread, which was among the first breeding facilities in Cecil County, Md., now a hub for racehorse breeding.

An only child, Stewart was a constant hand on the farm. With his father out of town training for much of the year, he did everything from muck stalls to foal-watch in springtime.

His mother, whom he respected and adored, had a keen intuition about animals, from the ever-present Chesapeake Bay retrievers the family kept on the farm for hunting and as pets, to horses. “You didn’t even bother arguing with her about what she thought the horses were thinking,” Stewart chuckles. “She was always right.”

Although he was surrounded by veterinarians both on the farm and at the track, Stewart never aspired to become one. “My expectations weren’t high enough to seek that,” he says. “But I always knew I was going to work with horses. There was no question about that.”

Stewart figured he would run a breeding farm or become a trainer. Although he was a good student at Archmere Academy, a top prep school near Wilmington, Del., he had no plans to attend college. When he shared his career plans to a high-ranking racing official he knew, the older man encouraged him to pursue veterinary medicine.

After that talk, Stewart began to see his world differently. He enrolled at the University of Maryland, where he took his pre-vet courses through the College of Agriculture. His advisor there suggested he take the agriculture courses that were required at the time by many veterinary schools. He refused, since they were not required by Penn, which was the only school to which he intended to apply.

“Every veterinarian I knew who was terrific went to Penn,” says Stewart, who was acquainted with many icons in the fields of equine reproduction and general medicine.

One of just a handful of students in his class accepted after only two years of college, Stewart had to play “catch-up” in courses like physiology, histology, and embryology, which his fellow students had already taken at the undergraduate level. But that wasn’t his only obstacle: His father died suddenly in February of his first year, leaving him to shoulder a lot of the responsibility at home. Well on his way to flunking out of school, he eventually told his mother he had to stop coming home on weekends to work on the farm.

Stewart remembers his clinical years with fondness. Although he never faltered in his desire to enter the field of equine medicine, he acknowledges having acquired many of his fundamental skills, particularly in fields like surgery and anesthesia, by working with small animals during school. “I had a great appreciation for small animals, and still do,” says Stewart, who, along with his wife, small-animal veterinarian Brenda Lewis Stewart, V’70, breeds and shows American Kennel Club champion Chesapeake Bay retrievers.

Following graduation, Stewart stayed at Penn for an internship and a residency in large animal surgery. He remains effusively grateful for the first-rate training he received from faculty members with whom he worked closely at New Bolton Center, such as Dr. Boucher, Dr. Jacques Jenny, professor of orthopedic surgery, and, in particular, Charles W. Raker, C’41 V’42, Lawrence Baker Sheppard Professor of Surgery.

Of the Penn faculty, he wistfully recalls, “They were absolutely great, selfless, giving teachers with complete devotion to what they were doing. They were individuals who epitomized how people should be and how they should treat other people and animals. And they passed that on to the students and residents.”

After his residency, Stewart joined a (continued on page 18)
Bettering the Lot of Israel’s Animals

by Joan Capuzzi Giresi, C’86 V’98

Dog fights, snake bites, Leishmania, and Spirocerca lupi. Not exactly day-fillers for the typical companion-animal practitioner. Unless, of course, you’re Sarah M. Levine, V’94, who sees her share of such domestic scarcities while practicing veterinary medicine in Israel.

“Working in a foreign country exposes you to many diseases you learn about in school but don’t necessarily see,” says Levine, who moved to Israel 3½ years ago.

Levine ministers to Israel’s dogs and cats—both owned and stray—through Concern for Helping Animals in Israel (CHAI), a nonprofit organization focused on improving the lot of Israel’s animals. As sole veterinarian for CHAI Israel, Levine navigates a mobile clinic through Israel, providing low-cost medical care for pets and spaying/neutering strays rounded up by municipal veterinarians and townspeople.

Among CHAI Israel’s most vexing challenges is harnessing the stray-cat overpopulation, which, Levine laments, “is part of the landscape in Israel.”

Levine also speaks at schools and community centers about the importance of veterinary care and empathy for animals, who, she says, have been somewhat neglected as a result of local cultural mores.

Because leash laws are largely ignored there and animals are allowed to roam free, Levine sees more than her share of trauma cases and cats sickened by FIV, which she says has infected approximately 30% of Israel’s outdoor cats.

Furthermore, says Levine, quality preventive care is not the rule in Israel, where many owners turn to hormone therapy to block heat cycles rather than spay/neuter their pets. This widespread reluctance to pursue well care transcends wealth and education: Levine recalls working in one of Israel’s most elite neighborhoods and meeting resistance to routine vaccination from pet owners, many of them high-ranking diplomats.

“If you’re practicing veterinary medicine here,” she explains, “you take a lot for granted in terms of owner knowledge. For instance, they have no concept of the fact that their pets’ intestinal parasites can be transmitted to their family.”

Levine’s upbringing was far more enlightened about animals and science. Growing up in Pittsburgh, she and her six siblings gained an early understanding of clinical medicine from their father, an ear, nose, and throat doctor who made learning fun for his children.

“We knew the 12 cranial nerves when we were kids,” she recalls with a chuckle. “My father would say, ‘The 10th nerve is the vagus nerve. It helps you swallow even when you’re upside-down.’ Then he would bring us into the living room and have us stand on our heads and eat food to prove to us that the vagus nerve worked.”

Although her father, who held mock medical rounds with his clan at the dinner table each night, encouraged Sarah to go into human medicine, a veterinary career was a foregone conclusion for her. “I always loved animals and had a nice way with them,” says Levine, 34, whose childhood home was filled with pets. “We would go to the petting zoo and all the animals would come to me.”

An English literature major at Stern College for Women (part of Yeshiva University) in New York City, Levine fulfilled her science requirements on the side and became the first Stern graduate to go to veterinary school. Accepted to two other schools, she chose Penn for its fine reputation and its proximity to her grandmother and aunt, who lived in Philadelphia.

Following school, Levine spent a few years in small-animal practice in central New Jersey. When her husband, an attorney working in the venture-capital industry, was offered a job in Israel, they eagerly relocated there in early 2000.

After settling her three young daughters into their new home in Ra’anana, a suburb just north of Tel Aviv, Levine hit the books in preparation for Israel’s veterinary boards. An orthodox Jew with a Zionist upbringing, Levine was amply schooled in Hebrew and even had spent a year in Israel during college. But while drilling for the national boards, which were not offered in English, she realized that Hebrew was as much as second language for her as was large-animal medicine. She still cringes when she remembers “studying blue tongue and all those other large-animal diseases in Hebrew.”

Although many veterinarians in Israel are unemployed due to oversupply, Levine says her Penn education made her a favorable job candidate. In her early days of small-animal practice in Israel, her Hebrew—which has since improved—was still a slight hindrance. “I could sound like the doctor if I was explaining diabetes in English. But in Hebrew…,” she trails off.

The language barrier was not Levine’s only hurdle. “It’s still a challenge to mesh culturally. Here, it’s important to be very subtle, gentle, diplomatic and not come off as superior. You have to lead [clients] into thinking that something was their idea.”

Levine, who keeps current on her continuing-education requirements in the States, also has had to familiarize herself with an entirely different cache of animal afflictions from what she was accustomed to seeing in the U.S. (She also has had to bid adieu to some, such as heartworm and endocrine diseases, which she (continued on page 24)
1956
Elizabeth A. Lawrence, professor emerita at Tufts University School of Veterinary Medicine, was quoted in the article, “Cute but Wild: The Perilous Lure of Exotic Pets,” which appeared in the June 24, 2003, edition of The New York Times. According to Dr. Lawrence, people are drawn to owning exotic pets because “They value the wild animal because it is less subservient, because it is unpredictable and won’t take orders. The owners also often want to prove that they have power over it and to shock people.” Dr. James A. Serpell, Marie A. Moore Associate Professor of Humane Ethics and Animal Welfare and director of the Center for the Interaction of Animals and Society at Penn Veterinary Medicine, was also quoted in the article.

Paul J. Suorsa was recently honored with the 2002 Bullshipper Award from the Butler County, Pa., Rotary Club for serving his community for 46 years as a veterinarian. The award is presented annually to the person who excels in promoting farm-city relations in and around Butler County. Dr. Suorsa co-owns Slippy Rock Veterinary Hospital with his son, Daniel, V’92.

1963
Katherine A. Houpt, professor of physiology at Cornell University College of Veterinary Medicine, was quoted in the article, “What Makes a Winner?” which appeared in the May 12, 2003, edition of The Baltimore Sun. In the article, which discusses whether horses have “gameness” or a desire to win, Dr. Houpt says that to spot the dominant horse at a starting gate, “He’ll stand up tall and lean toward the other horses. He may threaten them by pinning his ears back. He may have his mouth open trying to bite.” Dr. Sue McDonnell, the founding head of The Havemeyer Equine Behavior Program at New Bolton Center, was also quoted in the article.

1972
Lawrence T. Glickman, professor of epidemiology and environmental health and section head of Clinical Epidemiology at Purdue University School of Veterinary Medicine, was honored with the American Kennel Club Excellence in Research Award during the American Veterinary Medical Association Annual Convention in July 2003. Dr. Glickman was selected for his impressive research on Gastric Dilatation-Volvulus and his innovative approaches to various canine diseases.

1973
Robert M. Bowker, associate professor of pathobiology and diagnostic investigation at Michigan State University College of Veterinary Medicine, was honored in April 2003 with the Carl J. Norden Distinguished Teacher Award. The award was given in recognition of his outstanding teaching ability, leadership, and high moral character.

Midge Leitch visited the School of Veterinary Medicine and spoke to students in April 2003 as part of the Dean’s Alumni Career Speaker Series. She owns Londonderry Equine Clinic, a referral veterinary practice in Cochranville, Pa., where she specializes in the care of performance horses competing in dressage, driving, eventing, and jumping. Dr. Leitch is a member of the USA Equestrian Veterinary Committee and has served as team veterinarian at the last three consecutive Olympic Games and many other national and international events, including the World Equestrian Games.

1974
Leslie A. Dierauf has been appointed director of the National Wildlife Health Center (NWHC) in Madison, Wis., one of 18 science centers of the Biological Resources Discipline of the U.S. Geological Survey, a bureau of the U.S. Department of the Interior. The mission of the NWHC is to provide information, technical assistance, and research on national and international wildlife health issues. According to Dr. Dierauf, “The position as NWHC Director will provide me the opportunity to take the scientific expertise at the NWHC and shape a program that will promote effective, credible, and timely scientific research about our nation’s wildlife, helping not only species and habitats, but also presenting valuable information for decision-making throughout the Department of the Interior.”

1977
Sydney M. Evans, associate professor of radiation oncology at the Penn School of Medicine, was a visiting professor in June 2003 in the Department of Neurosurgery at the M. D. Anderson Cancer Center in Houston. She presented a talk entitled “The Prognostic Importance of Hypoxia in Brain Tumors.” Dr. Evans was invited to serve as a member of the Radiation Study Section of the National Institutes of Health Center for Scientific Review. She will help review applications dealing with the interaction of radiation and heat with matter at the molecular, cellular, and clinical levels.

Christian E. Newcomer has been appointed The Johns Hopkins University’s first associate provost for animal research and resources, responsible for university-wide planning and other issues relating to research using animal subjects. He will serve as an advisor and frequent consultant to the university’s Institutional Animal Care and Use Committee, a group that reviews all animal research protocols to ensure that use of animal subjects is essential and that any pain or discomfort to animals is minimized. According to Dr. Newcomer, “There are just an incredible number of issues that come up in a big and vibrant animal research program like Johns Hopkins. I will work to determine how we keep a step ahead of where the science is going, and how we do that the right way.”

1981
Yvette M. Davis is a scientific review administrator at the National Institutes of Health and is a commander in the U.S. Public Health Service Commissioned Corps.

1987
Gary M. Tabor is a program officer for the Wilburforce Foundation, a private, philanthropic foundation that funds environmental issues in the western U.S. and western Canada, and is responsible for grantmaking in the Yellowstone to Yukon region. Dr. Tabor is also the co-editor of Conservation Medicine: Ecological Health in Practice, the product of a 1999 conference of the Consortium for Conservation Medicine, where he served as the founding executive director. The Consortium is a unique collaborative institution that strives to understand the link among anthropogenic environmental change, the health of all species, and the conservation of biodiversity.
1989
Paula M. Colletti has become board-certified in canine/feline practice by the American Board of Veterinary Practitioners.

Karen Lavinia Johnston is a product manager for Nestlé Purina PetCare in Australia. In June 2003, she and her husband visited her family in the Philadelphia area and the Ryan Veterinary Hospital at Penn before attending the American College of Veterinary Internal Medicine Forum in Charlotte.

1990
Major Joseph G. Williamson was featured in the article, “A Tour in the Desert: Veterinarians Fill Forward Positions in Iraq Campaign,” which appeared in the May 15, 2003, issue of the Journal of the American Veterinary Medical Association. Major Williamson served in Operation Iraqi Freedom, and he and his team were responsible for food safety inspections by performing sanitary audits of more than a hundred commercial facilities or suppliers in 10 countries to the coalition forces.

1994

1996
Katherine B. Chope and Jose M. Garcia-Lopez are now working at Tufts University School of Veterinary Medicine. Dr. Chope provides a three-days-a-week ultrasound specialty service for large animals, covering all of the major body systems, with a special interest in equine musculoskeletal injuries and cardiology. Dr. Garcia-Lopez is an assistant professor of large animal surgery, and his surgical interests include equine orthopedics and upper airway disorders, including the use of lasers. Drs. Chope and Garcia-Lopez have two children, Jose Maria and Katerina Amelia.

1997
Michael N. Fugaro has become board-certified by the American College of Veterinary Surgeons.

Michelle G. Hawkins has become board-certified in avian practice by the American Board of Veterinary Practitioners.

1999
Dana Frederick is director of veterinary services for Labrador Service Dogs, a national organization that trains Labrador retrievers to assist people who are confined to wheelchairs.

2000
Jason W. Brooks has joined the staff of the Animal Diagnostic Laboratory at The Pennsylvania State University. He will divide his time between service in field investigation and necropsy.

Jacob R. Werner is the attending veterinarian for agricultural animals and wildlife at The Pennsylvania State University.

2002
Edward S. Cooper, an intern in the Department of Small Animal Clinical Sciences at Michigan State University College of Veterinary Medicine, was honored in April 2003 with the SCAVMA Intern Award. The award was given in recognition of his outstanding performance in the clinical training and teaching of students.

Tracy A. Filler was interviewed in the article, “Caring for Pets,” which appeared in the June 26, 2003, issue of the Casco Bay Weekly of Portland, Maine. According to Dr. Filler, who lived in Pennsylvania her entire life, she chose to practice in Maine because she “loved New England and dreamed of seeing Acadia National Park.” She added, “I wanted to be where the outdoors could be enjoyed. I wanted to hike, drive, and explore along the coast. I looked forward to a slower pace of life and people who are open and friendly.”

2003
Nathan D. Harvey is serving as the dairy production medicine intern at New Bolton Center.

Deaths
1931

1934

1936
Frank G. Dubuy on April 10, 2003.

1939
Ralph C. Fish, Jr. on March 7, 2002.

1940
Clyde I. Boyer, Jr. on April 12, 2003.

1941

1946
Rodney S. Billett on October 24, 1998.

1947

1951
Jacob Levenson on December 15, 2002.

1952
Frank A. Bartus on April 21, 2003. Father of Michelle C. Bartus, V’84, and father-in-law of Peter D. Nelson, V’84.

1960

1962
Paul Berg on August 18, 2003. From 1966 to 1972, Dr. Berg was a member of Penn Veterinary Medicine’s faculty as an assistant professor then as an associate professor of surgery. In addition to his private practice, Dr. Berg returned to the School in 1980 and served for many years as an adjunct professor of surgery. Father of Melissa J. Berg, V’96.

1971
George A. Franklin, Jr. on April 27, 2002.

1994
Elizabeth Stewart Claffey on April 15, 2003.

Births
1978
Gregory D. Bossart, a daughter, Ansley Claire Bossart, on May 13, 2003.

1995

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 & 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
Racetrack Veterinarian to VMAS President

(continued from page 14)

racetrack practice in Laurel, Md., where he
remains today as a partner. The seven-doctor
practice, since renamed Yersey, Stewart,
Vallance and Associates, covers all the tracks in
Maryland and one in Virginia. Although his
hours are excruciating—on the track by 5:00 in
the morning for training and sometimes there
during dinnertime, after the last race has
ended—Stewart, 59, prefers track work to
anything else.

“Racehorses are nicer to deal with than
someone’s spoiled riding horse,” he declares.

He is less complimentary of some of the
people in the industry. Racing, says Stewart,
who holds an appointment to the Grayson
Research Jockey Club Foundation, which funds
research in equine medicine and surgery, has
suffered from “the desire of a small-but-signifi-
cant group to beat the system” with banned
performance enhancers like sodium bicarbon-
ate “milkshakes” and analgesics.

For the racing industry, Stewart hopes a
e more enlightened attitude about which med-
ications and supplements should and should
not be permissible will one day prevail. He also
wants to see better purses so that, in the
future, the horses might be housed in healthier
accommodations offering better ventilation
and sanitation.

For the sphere of equine medicine, Stewart’s
wish is far more modest—that people will con-
tinue to enter the field. Because of the demand-
ing lifestyle and lean salaries, horse medicine is
losing warm bodies. In fact, Stewart’s own prac-
tice has difficulty recruiting veterinarians.

As VMAS president, Stewart wants to boost
alumni involvement in the Opportunity
Scholarship Program, a scholarship-mentorship
program that pairs alumni donors with recipi-
ent students. He notes that many patrons have
done for them, getting them scholarship
money, working with the state legislature to
der the costs…” he explains.

Stewart also aims to incorporate both past
and future graduates of the internship and resi-
dency programs, who do hold alumni status,
into the Penn community once they leave.

Of Stewart’s hefty sense of commitment to
the School, outgoing president Eric M.
Bregman, V’95, says, “Jimmy is probably one of
the most motivated alumni that I know, one of
the School’s finest boosters.”

To this, Stewart would probably reflect on
his Penn education and say that he’s just
returning the favor.

Alumni Connections

To find a former classmate and to sign up for a
permanent e-mail forwarding service:

Join the University of Pennsylvania Alumni On-
Line Community for free at <www.alumni
connections.com/ole/pub/UPNO>. After you regis-
ter, you can search the On-Line Directory, which
is a great resource for personal and professional
networking and an easy way to keep up-to-date
on fellow alumni. You can also sign up for a per-
manent e-mail forwarding service, which will for-
ward messages received at your permanent Penn
address to the e-mail address of your choice.

To update your alumni record:

You can update your record via the University of
Pennsylvania Alumni On-Line Community On-
Line Directory. You may also contact Elizabeth
McNamara at (215) 746-7461 or via e-mail at
<emcnamar@vet.upenn.edu>.

To make a gift or for information to support
Penn Veterinary Medicine:

Make a gift with your credit card through a secure
online transaction at <www.upenn.edu/gifts>. For
information on supporting the School, visit the
upenn.edu> or contact Joshua E. Liss at (215)
898-1481 or via e-mail at <lissj@vet.upenn.edu>.

To request a transcript, certification of graduation,
or replacement diploma:

For information on requesting a transcript, visit
the Office of the University Registrar’s website at
<www.upenn.edu/registrar/transcripts/transcripts.html> or call (215) 898-7511. For
information on requesting a certification of grad-
uation, which does not require a transcript, con-
tact the School’s Office of Student & Curricular
Affairs at (215) 898-3525 or via e-mail at
<br StudentAffairs@vet.upenn.edu>. For informa-
tion on ordering a replacement diploma, visit the
Office of the Secretary’s website at <http://www.upenn.
edu/secretary/diplomas/ diplomas.html>. To
post/search employment opportunities for veterinarians:

Visit the School’s Veterinary Employment Data-
base at <www.vet.upenn.edu/jobsearch>.

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A Strong Advocate for Laboratory Animal Medicine

by Susan I. Finkelstein

Over the course of his distinguished career, Hilton J. Klein, V’80, has accomplished much in the fields of critical research and human and animal drug and vaccine discovery and development. During its Annual Convention in July 2003, the American Veterinary Medical Association recognized Klein’s contributions to the field of laboratory animal science by honoring him with the Charles River Prize, which is awarded by the Charles River Foundation.

Currently the senior director of comparative medicine and director of the Department of Laboratory Animal Resources for Merck Research Laboratories in West Point, Pa., Klein provides strategic planning and direction for Merck’s animal care and use programs and is the lead auditor for all animal care programs for Merck worldwide. As Merck’s representative, Klein also played an important part in establishing a conservation program for neotropical primates in collaboration with the Pan American Health Organization.

Klein credits his education at Penn’s Veterinary School, with its emphasis on basic science, for pointing him in the direction of a research career. In fact, Klein notes, because of Penn’s continued research-focused curriculum, “Penn graduates are better equipped than ever before to understand what’s going on in research.” In 1977, as the very first Penn student to participate in the Merck Summer Research Fellowship Program, where he was mentored by two laboratory animal veterinarians, Klein found his initial desire to practice large animal medicine gradually giving way to a growing interest in research.

After graduating from Penn in 1980, “an opportunity to do research on human infectious diseases presented itself,” recalls Klein. As manager of veterinary sciences at Whitaker M.A. Bioproducts in Walkersville, Md., Klein, in addition to his duties as clinical veterinarian and laboratory animal care supervisor, helped research and develop diagnostic tests for infectious animal diseases, including ELISA (Enzyme-Linked ImmunoSorbent Assay), a fundamental tool of clinical immunology used as an initial screen for HIV detection, and the FA (Fluorescent Antibody) Test, which for many years has been used to detect influenza virus infection in frozen sections of lung. His comparative infectious disease research encompassed toxoplasmosis, herpes, and cytomegalovirus.

In 1985, Klein joined Merck Research Laboratories as a staff veterinarian, where he collaborated with researchers in developing animal models to establish “proof of concept” and safety for human medicines and vaccines. During his 18 years at Merck, the number of animals has more than and the professional staff tripled.

Klein was recently honored with Merck’s 2002 Animal Alternatives Award, along with Thomas E. Nolan, D.V.M., recently retired from Merck’s Department of Laboratory Animal Resources. The award recognizes Merck employees worldwide whose research and published work support the animal-alternatives concept of “3 Rs”—replacing, reducing, or refining animal models used in laboratory research. Klein and Nolan’s award-winning paper, “Methods in Vascular Infusion Biotechnology in Research with Rodents,” appeared in 2002 in the ILAR Journal, the publication of the Institute for Laboratory Animal Research. The paper describes innovative techniques (with animal welfare in mind) that use miniaturized animal models to facilitate drug discovery and development. This novel technology is now being used in Merck research areas—including obesity, diabetes, cancer, and vaccines—and will ultimately benefit both human and animal health.

Because veterinarians trained to conduct basic biomedical research are in short supply across the country, many career opportunities are available for veterinarians to enter the research arena. Klein states, “We as veterinarians shouldn’t consider research as an ‘alternative’ career; it’s a good primary career that offers lots of opportunities for vets—in agricultural research, biomedical research, human medicine research—for which Penn graduates are uniquely qualified.”

Research veterinarians can help shape animal welfare policies and practices at the local, national, and global levels. Klein has worked with international agencies like the World Health Organization, regulatory agencies like the United States Department of Agriculture, accrediting agencies like the Association for Assessment and Accreditation of Laboratory Animal Care—International (where he served as president of its Council on Accreditation), and professional/scientific groups like ILAR. He has traveled extensively throughout the world—including places as diverse as Canada, Italy, France, the Philippines, Taiwan, and Cuba, where he actually met Fidel Castro. At each stop, no matter how distant or unfamiliar, the common thread was always animals and research.

Klein points to the emerging field of “translational medicine” as another type of research career available to graduates. Knowledge and technology are being improved today at an increasing pace—and with them, our desire to see a rapid progression, or “translation,” of information from laboratory to hospital, from theoretical to practical. This desire generates the need for a whole new range of trained professionals to perform the critical task of moving medical research closer to commercially ready medical technology. Animals play an integral part in the two main steps of this “bench-to-bedside” research (first proving a concept, and then ensuring its safety)—and where there are laboratory animals, of course, there is a need for veterinarians. “This is a chance to help both humans and animals by developing drugs and vaccines,” states Klein.

An adjunct associate professor of laboratory animal medicine at Penn, the author or coauthor of more than 30 scientific articles, and a diplomate of the American College of Laboratory Animal Medicine, Klein is uniquely qualified to serve as an advocate for a field that strives to advance the health and welfare of humans and animals.
Alumni Weekend 2003

On Saturday, May 17, more than 250 alumni and their guests enjoyed a variety of Alumni Weekend 2003 events at New Bolton Center. Along with the Alumni Picnic and tours of New Bolton Center during the day, more than 125 alumni and their guests attended a reception and dinner at the Brandywine River Museum in Chadds Ford, Pa.

More than 50 members of the Class of 1978 and their guests attended a separate dinner that same evening at the Sheraton Society Hill Hotel in Philadelphia, where they celebrated raising more than $100,000 in gifts and pledges to establish the Class of 1978 Endowed Scholarship Fund.

Alumni Weekend 2003 photography by Jim Roese (JR) and Candace diCarlo (CD).
Alumni Weekend 2003


Class of 1998: Martha A. Franklin, Sally Anne Aschenbrand, Margaret W. Gober, and Gerald Thompson. (CD)

Class of 1988: Karen Lutschaunig, Mark Lutschaunig, Andrea Tasi, and Roger Nicholas. (CD)
2003 Alumni Award of Merit Recipients

During the Annual Meeting of the Veterinary Medical Alumni Society (VMAS) of the University of Pennsylvania School of Veterinary Medicine on May 17, 2003, three alumni were honored with a 2003 Alumni Award of Merit. They are:

**Dr. Elinor A. Brandt**, a 1963 graduate. A resident of Los Angeles, she owns East Valley Veterinary Clinic in Sun Valley, Calif. She was honored for her longstanding commitment and dedication as Class Agent for the Class of 1963.

**Dr. Henry L. Croft, Jr.**, a 1978 graduate. A resident of Stahlstown, Pa., he owns Loyalhanna Veterinary Clinic in Stahlstown, Pa. He was recognized for promoting animal welfare in his community through numerous outreach programs, and for his 23 years of leadership to the Westmoreland County, Pa., 4-H Veterinary Science Club.

**Dr. John D. McCullough**, a 1943 graduate. A resident of Atlantic Beach, Fla., he was recognized for his exemplary service to the U.S. Air Force that spanned 22 years and three continents—during which he rose to the rank of Colonel in the Veterinary Corps, and was honored with an Air Force Meritorious Service Medal for outstanding noncombatant meritorious service during the Korean War.

The VMAS honors alumni who have made outstanding contributions to their profession and the School with the Alumni Award of Merit. The award is given annually to recognize distinguished graduates for their contributions that advance knowledge in biomedicine, promote the welfare of animals through public education of animal owners, and benefit society through civic activities that foster the advancement of the profession and the School’s good name.

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**University of Pennsylvania**
School of Veterinary Medicine
Veterinary Medical Alumni Society

**Salutes**
Elinor A. Brandt, V.M.D.

Class of 1963

For your longstanding commitment and dedication to the University of Pennsylvania School of Veterinary Medicine in your role as Class Agent for the Class of 1963. According to a classmate, you have "been the glue that has kept [your] class together and has been instrumental in building bridges for the School."

For taking an active interest in your profession as a member of the American Veterinary Medical Association, the American Animal Hospital Association, the Pennsylvania Veterinary Medical Association, and the Lesbian and Gay Veterinary Medical Association.

The Alumni Award of Merit is presented to you this 17th day of May 2003.

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**University of Pennsylvania**
School of Veterinary Medicine
Veterinary Medical Alumni Society

**Salutes**
Henry L. Croft, Jr., V.M.D.

Class of 1978

For promoting animal welfare in your community through numerous outreach programs including “Bite-Free,” which educates children on pet responsibility and how to prevent dog bites.

For taking an active interest in your profession as a member of the American Veterinary Medical Association, the American Animal Hospital Association, the Pennsylvania Veterinary Medical Association, and the Western Pennsylvania Veterinary Association.

For your service to the community that promotes the good name of the School of Veterinary Medicine, most notably as a member of the Advisory Board of the Powdermill Nature Reserve of the Carnegie Museum of Natural History, and as a member of the St. Vincent College Animal Welfare Committee.

For being honored with the 1991 Public Service Award of Merit by the Pennsylvania Veterinary Medical Association for outstanding achievements in working with young people to encourage respect and responsibility for nature, animals, and the environment.

For being recognized for 23 years of leadership to the Westmoreland County, Pa., 4-H Veterinary Science Club.

The Alumni Award of Merit is presented to you this 17th day of May 2003.

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**University of Pennsylvania**
School of Veterinary Medicine
Veterinary Medical Alumni Society

**Salutes**
John D. McCullough, V.M.D.

Class of 1943

For advancing veterinary care in your community by establishing and running a private veterinary practice—specializing in bovine care—in Clarion County, Pa., from 1943, directly after your graduation, until 1952.

For your exemplary service to the U.S. Air Force that spanned 22 years and three continents—during which you rose to the rank of Colonel in the Veterinary Corps.

For being presented an Air Force Meritorious Service Medal for outstanding noncombatant meritorious service during the Korean War.

For being recognized by the School of Veterinary Medicine with its Bellwether Medal in 2000 for your exceptional accomplishments that have brought distinguished recognition to the School.

For your generous support of your alma mater, including your annual gifts to the McCullough Research Fund at New Bolton Center, which promotes faculty development and leads to improved teaching, research, and service at the School, and your contribution to name the John D. McCullough, V’43, and Dorothy Wilson McCullough Reception Area in the new Teaching and Research Building.

The Alumni Award of Merit is presented to you this 17th day of May 2003.
Two Alumni Join AVMA

Raymond Stock, V’75, and Mark Lutschaunig, V’88, have been named new assistant directors in the American Veterinary Medical Association’s Governmental Relations Division office in Washington, D.C. They will be responsible for monitoring the activities of Congress and federal regulatory agencies while providing liaison activities for the veterinary medicine profession to the federal government and applicable agencies on a variety of issues that could impact the profession.

Israel’s Animals

(continued from page 15)

rarely sees in Israel.) She credits Penn for her ability to make this mental transition.

“Penn Vet really teaches you how to problem-solve in a very organized, efficient manner so you can approach something you’ve never seen before very systematically,” she explains.

When Alexandria, Va.-based CHAI approached her about starting an offshoot in Israel, Levine welcomed the opportunity. “I was excited to be able to make a difference,” says Levine, who brought the U.S.-made mobile clinic to the streets last March. “In a country that’s young, you can really make a difference and pave the way.”

Recently, Levine worked with Israel’s agricultural (veterinary services), environmental, and health ministries to end the strychnine poisoning of strays. Also, she was invited to spay/neuter animals in Orthodox communities around Jerusalem, where heretofore these procedures have been prohibited.

While the mobile unit, which is also manned by a driver and a veterinary technician, travels only to familiar neighborhoods, Levine hopes to bring CHAI Israel’s veterinary services to Arab towns that are known to be safe. In August, she took the clinic into the desert to vaccinate and spay/neuter the dogs of the nomadic Bedouins and educate the group about responsible pet ownership. She says that raising Israel’s veterinary standard of care is a first critical step in cracking down on needless disease and suffering in animals.

For more information on CHAI, visit <www.chai-online.org>.
Saly Glassman, Opportunity Scholarship Sponsor

by Susan I. Finkelstein

“The Opportunity Scholarship Program is dear to my heart. Veterinary medicine is very important to me, and I’m just delighted to have a real relationship with the University of Pennsylvania Vet School. Penn cares about me as a donor, and I care about the students. So says Saly Glassman, highly successful financier, accomplished equestrienne, wife, mother of two—and Opportunity Scholarship sponsor.

Several years ago, when asked by Opportunity Scholarship Committee member Andy Elser, V’87, to sponsor a veterinary student in need, Saly immediately seized the chance to get involved. Her love of horses—and their prominence in her life—made Ann Kroken, V’04, a natural choice for the recipient of Saly’s scholarship. Ann has been a lifelong owner and trainer of Standardbred horses, has an interest in riding hunter/jumpers, and has been a member of the Equine Club since 2000. Raised in Lisbon Falls, Maine, Ann would like to return her home state to pursue a career in equine sports medicine and lameness diagnostics and treatment after graduation.

Growing up in Cheltenham, Pa., Saly developed an early attachment to animals; at the age of five, she began riding horses, and a lifelong passion was born. She eventually switched from hunters to jumpers and dressage, and has competed extensively as an amateur show jumper.

Eight years ago, while looking for a trainer, Saly spotted Irishman Kevin Babington at a show, and his exceptional ability immediately was apparent. Kevin soon started training Saly and riding her horses competitively. And so a dynamic, long-term partnership was formed: Kevin has ridden Carling King, Saly’s chestnut Irish sport horse, to several international titles. Of her relationship with Kevin, Saly notes, “We have extremely high standards for ourselves and other people. We’re opposites of each other, but together we make each other whole.”

As a student at Cornell in the late 1970s, Saly studied psychology—including animal psychology—but discovered upon graduation, in the thick of the early 1980s recession, that her Ivy League education did not gain her automatic admittance into the tight job market. “My father said, ‘You belong in a brokerage house,’ and it turned out to be the perfect career for me.”

Twenty-three years later, Saly is Senior Vice President at Merrill Lynch, responsible for the investment strategies of high-net-worth clients (in the $5-million to $50-million market), and heads a team of six women whose collective experience exceeds 110 years. Saly’s practice is ranked among the top five in the firm and first in the Delaware Valley district. She has been listed multiple times as one of the top 20 financial advisers in the United States.

Saly now makes her home on her 128-acre “Kindle Hill Farm” in Gwynedd Valley, Pa., with her husband of 22 years, Allan Syphers, a self-employed architect, and their two daughters, Janice, 13, and Lauren, 7.

Carling King was eighth in the World Equestrian Games in Jerez, Spain 2002, won multiple international Nation’s Cups in 2003, and was the 2001 Samsung Nation’s Cup leading horse. Of her relationship with Kevin, Saly notes, “We are a dynamic, long-term partnership was formed: Kevin has ridden Carling King, Saly’s chestnut Irish sport horse, to several international titles.

2004 Alumni Award of Merit Nominations Sought

Nominations are being sought for three recipients of the 2004 Alumni Award of Merit, which will be presented at the Veterinary Medical Alumni Society (VMAS) Annual Meeting during Alumni Weekend 2004.

The VMAS honors alumni who have made outstanding contributions to their profession and the School with the Alumni Award of Merit. The award is given annually to recognize distinguished graduates for their contributions that advance knowledge in biomedicine, promote the welfare of animals through public education of animal owners, and benefit society through civic activities that foster the advancement of the profession and the School’s good name.

Eligible 2004 recipients are members of the classes that end in “4” or “9,” and who will be celebrating a five year reunion during Alumni Weekend 2004. Members of the VMAS Executive Board will select the recipients from the pool of nominees. Nominations are due no later than December 31, 2003.

For more information or if you have any questions, please contact Joshua E. Liss, Director of Alumni Relations and Annual Giving, at (215) 898-1481 or via e-mail at <lissj@vet.upenn.edu>. For a list of previous Alumni Award of Merit recipients, please visit <http://alumni.vet.upenn.edu/alumniawardofmerit.html>.

To make a nomination, please send a letter explaining your reasons to:
Joshua E. Liss
Director of Alumni Relations & Annual Giving
University of Pennsylvania
School of Veterinary Medicine
3800 Spruce Street
Philadelphia, PA 19104-6047
Affected animals may also have corneal clouding—molecules and parts of the molecules accumulated in the cells' ability to break down large sugar molecules and cartilage. Diseases in the MPS group inhibit the ability to break down large sugar molecules and cartilage, making this appear to be more widespread. Mutant alleles have been found in various states in the US and abroad, making this appear to be more widespread. Mutant alleles have been identified. Affected miniature pinschers is the first dog breed in which it has been reported, carrier, and normal miniature pinschers has been developed by researchers at the School. Special test development was supported by grants from the AKC Canine Health Foundation and the National Institutes of Health.

The Penn medical genetics researchers, under the direction of Dr. Urs Giger, are also examining whether the common occurrence of Legge-Calve-Perthes (LCP) disease in miniature pinschers and other breeds is related to MPS VI. LCP, a devastating hip disease, is characterized by necrosis of the femur head. The cause remains unknown. LCP differs from hip dysplasia and MPS VI, but similar bone changes are observed in miniature pinschers with MPS VI. Penn's researchers want to determine if there is an association between MPS and LCP disease in this and other breeds with LCP disease. The study is done by Lisa Berman, senior biology student at Penn, and is also funded by the AKC Canine Health Foundation.

Dr. Giger and his colleagues are requesting that breeders, owners, and veterinarians who suspect either condition in a miniature pinscher contact the laboratory. For a limited time the first 100 samples will accepted free of charge. Test results will be kept confidential and information about individual animals will only be reported to the owner. For further information, please visit the web site at <www.vet.upenn.edu/penngen> or contact Dr. Giger or Dr. Lisa Sarvas, the current Deubler Fellow, at <penngen@mail.vet.upenn.edu> or by fax at 215-573-2162.

New DNA Test for MPS VI in Miniature Pinscher

A new DNA-based test for mucopolysaccharidosis type VI (MPS VI) to identify affected, carrier, and normal miniature pinschers has been developed by researchers at the School. MPS VI, an inherited lysosomal storage disease, has been seen in cats. The miniature pinscher is the first dog breed in which it has been identified. Affected miniature pinschers have been found in various states in the US and abroad, making this appear to be more widespread and under-diagnosed than previously thought. Diseases in the MPS group inhibit the cells’ ability to break down large sugar molecules and parts of the molecules accumulate in cells. This leads to deformities of limbs, vertebrae, sternum, and particularly, the hips. Affected animals may also have corneal cloudiness and facial malformations.

The test identifies affected, carrier, and normal miniature pinschers. Identification of carriers is particularly important as they show no signs of the disease. By knowing who the carriers are, breeders can avoid mating two carriers, which could produce affected animals, and will assist in eliminating the mutant allele altogether from the breed.

The test was developed by Dr. Polly Foureman, a Josephine Deubler Fellow in the School’s Section of Medical Genetics. The DNA-based test requires a blood sample to be submitted to the Josephine Deubler Genetic Disease Testing Laboratory at Penn. The research and test development were supported by grants from the AKC Canine Health Foundation and the National Institutes of Health.

The Penn medical genetics researchers, under the direction of Dr. Urs Giger, are also examining whether the common occurrence of Legge-Calve-Perthes (LCP) disease in miniature pinschers and other breeds is related to MPS VI. LCP, a devastating hip disease, is characterized by necrosis of the femur head. The cause remains unknown. LCP differs from hip dysplasia and MPS VI, but similar bone changes are observed in miniature pinschers with MPS VI. Penn’s researchers want to determine if there is an association between MPS and LCP disease in this and other breeds with LCP disease. This study is done by Lisa Berman, senior biology student at Penn, and is also funded by the AKC Canine Health Foundation.

Dr. Giger and his colleagues are requesting that breeders, owners, and veterinarians who suspect either condition in a miniature pinscher contact the laboratory. For a limited time the first 100 samples will accepted free of charge. Test results will be kept confidential and information about individual animals will only be reported to the owner. For further information, please visit the web site at <www.vet.upenn.edu/penngen> or contact Dr. Giger or Dr. Lisa Sarvas, the current Deubler Fellow, at <penngen@mail.vet.upenn.edu> or by fax at 215-573-2162.

Scholarships

The American Kennel Club awarded a Chairman’s Scholarship to Dana Clark, V’06. Garret Patchinger, V’05, received a Western States Scholarship. SCAVMA Community Service Grants were awarded to Daphne Downs and Robert Mankowski, Class of ‘04; David Shere and Zoe Ramagnano, Class of ’05; and Jennifer Feiner and Jennifer Swallow, Class of ’06. Three members of the Class of ’06 each received a Donald E. Cross Scholarship for Large Animal Medicine: Lauren Green, Caitlin Roberts, and Alison Wolfgram.

James Shissler, V’04, and Ellen Angstadt, V’04, each received a Wagner Rural Medicine Scholarship. Anne Pickett, V’04, received the Lloyd’s Equine Research and Education Program Scholarship. The Dauphin County Resident Scholarships were awarded to Lauren May, V’05, and Mary Palopoli, V’06.

Lois F. Fairchild Scholarships in Veterinary Public Service were awarded to Aylin Attila, V’04, Alison Loupos, V’05, and Emily Jones, V’05. Four members of the Class of ’04 received Pennsylvania Veterinary Foundation Scholarships: Jill Compton, Josh Eaton, Cailin Heinze, and Laura Javiscas. The Westminster Kennel Foundation Scholarship was awarded to Christa Regan, V’04. Five members of the Class of ’04 each received a Dr. J. E. Salsbury Scholarship: Josh Eaton, Lauren Entes, Carrie Horton, Jennifer Kaae and Christa Regan.

University of Pennsylvania Hertzler

Scholarships were awarded to Timothy Mosebey, V’05, and Michelle Regester, V’06. The Union County Kennel Club awarded a scholarship to Rebecca Taylor, V’05. Josh Eaton, V’04, and Kelli Russell, V’04, each received a Ch. Forfox Liz Claiborn Scholarship. The Swiss Benevolent Society awarded a scholarship to Nadine Salome, V’06.

Shirley E. Possinger Dean’s Scholarships were awarded to the following members of the Class of ’04: Beth Appleman, Mandy Becker, Caitlin Heinze, Lisa Lipitz, Adriane Pfeninger, and Tara Strawderman; and to the following members of the Class of ’06: Gordon Peddle, Kimberly Russell, Jennifer Stevens, Kristina Willoughby, and Daniel Zawisz.

Mrs. Jack L. Billhardt Dean’s Scholarships were awarded to the following members of the Class of ’04: Michele Koch, Bjorn Lee, Kelli Russell, and Arlene Schneiderman.

The following members of the Class of ’04 are the recipients of Dr. M. Josephine Deubler Dean’s Scholarships: Kara Ballek, Holly Edwards, Oli Morgan, Regina Pellegrin, and Erin Wright.

Rebecca Schrader V’04, and Jennifer Seybold, V’04, are each a recipient of an Ethel H. Mitchell Dean’s Scholarship. Bruce J. Heim Dean’s Scholarships were awarded to the following members of the Class of ’04: Aylin Attila, Stephen Godin, and Courtney Maeda. Garret Patchinger, V’05, is the recipient of the Jack Mara Dean’s Scholarship. Hill’s Pet Product Dean’s Scholarships were awarded to the following members of the Class of ’04: Jessica Bertout, Christopher Blum, Amanda Bowden, Meghan Brumstedt, Jennifer Cohen, Anthony Dallatore, Amy Durham, Laurel Frydenborg, Kaira Geithman, Sabrina Goscilo, Justin Kontir, Audra Olsen, and Aimee Simpson; and to the following members of the Class of ’06: Anthony Acquaviva, Rachel Choi, and Christine Claycomb.

The following members of the Class of ’04 (continued on page 30)
Animal Crackers

Nova Scotia Duck Tolling Retriever

The Nova Scotia duck tolling retriever is the latest breed eligible to compete for championship points at shows held under American Kennel Club rules. There are now 150 breeds and varieties eligible for the regular classes at these shows.

Tolling is a Middle English word meaning “to lure or decoy game.” The running back and forth along the shoreline arouses the curiosity of the waterfowl and causes them to swim closer to the shore within gunshot range. The dog is sent to retrieve the dead or wounded birds.

It is thought that the basic stock was the red decoy dog brought to Nova Scotia by early settlers from Europe; crosses with other breeds, possibly setter or spaniel-type dogs and farm collies, produced the present-day toller, which has bred true for generations. It was granted official breed status by the Canadian Kennel Club in 1945. At first, it was seldom seen outside Nova Scotia but today it may be found across the United States and Canada as well as in Europe and Australia. The parent club in the United States was formed in 1984 to promote interest and safeguard the future of the breed.

The toller is the smallest of the retrievers—a medium dog in every way: medium size, medium coat, medium bone. The ideal height for a male is 19 inches, for a female 18 inches. It has a water-repellent coat and soft, dense undercoat—the tail is luxuriant and well feathered. Coat color is any shade of red.

This dog is incorrectly described as a small golden retriever although it may seem so to the untrained eye. The breed standard gives a complete description. This can be found on the AKC website—<www.akc.org>.

Indoor and Outdoor Cats

An estimated 73 million cats live in 32 percent of the households in the United States. In addition, there are large numbers of free-roaming cats—owned cats allowed to go outside as well as stray and feral cats. Every year, 70 percent (3 to 4 million) of cats that enter the nation’s shelters are euthanized.

There are many strictly indoor cats while others are allowed outdoors for a few hours during the day. Some cats are allowed unlimited outdoor access. In our society, many believe that cats are independent and can largely take care of themselves. Some educational programs promote indoor lifestyles for cats because of the feral cat issue and to prevent illness or death associated with outdoor access. In addition, owned cats generally live longer, healthier lives than strays.

Overpopulation is a problem. Although no easy answers exist, responsible owners who have their cats neutered can help. Not only does neutering prevent unwanted kittens (one female cat and her offspring can produce as many as 420,000 kittens in seven years), but it can curb or eliminate problematic behaviors, reduces the risk of several types of cancer, and makes pets better, more affectionate companions overall.

Owner or Guardian?

Recently there have been proposals that the term “guardian” should be used instead of “owner” of dogs.

AKC has issued a position statement on this, supporting the use of the term “owner” when referring to the keeping of dogs. AKC believes that the term guardian reduces the legal status and value of dogs and thereby restricts the rights of owners, veterinarians and government agencies to protect and care for dogs. It may also subject them to frivolous and expensive legislation.

The term guardian does nothing to promote more responsible treatment of dogs. AKC strongly supports efforts to educate the public about responsible dog ownership to ensure that all dogs receive the care, love, and attention they deserve.

Bits and Pieces

- Print or type an “Emergency Care of Companion Animals” card and place it in your wallet. List all your animals and who should be contacted in case you are injured or hospitalized and cannot return home.
- Acetaminophen is very toxic to cats—as little as 50 milligrams can poison the average-sized cat. The drug is the active ingredient of Tylenol™ and other over-the-counter medication. Cats handle medications differently than humans and dogs and a veterinarian should be consulted before medication is given to cats.
- Large amounts of chocolate may be dangerous to dogs. The toxic ingredient is theobromine, which is similar to caffeine. Signs of overdose include hyperactivity, fast heart rate, and possibly seizures. Small amounts may not cause any trouble although very large doses could be fatal. About 50 milligrams of theobromine per pound of body weight can cause trouble. Milk chocolate has about 44 milligrams per ounce, semisweet chocolate has 150 milligrams per ounce, and baking chocolate contains 390 milligrams per ounce. Do the math and decide if veterinary help is needed.
- Declawing of domestic cats is a controversial procedure recently banned in West Hollywood, Calif. It is illegal in 25 countries but has advocates and opponents in the United States. The American Veterinary Medical Association (AVMA) has a position statement stating the declawing should be considered only after attempts have been made to prevent the cat from using its claws destructively or when its clawing presents a zoonotic risk to its owners. The AVMA believes the veterinarian should provide cat owners with complete education regarding feline onychectomy. Scratching is a normal feline activity. Owners must provide scratching posts or other implements tall or long enough to allow full stretching and firmly anchored to resist scratching. Claws should be trimmed every 1 to 2 weeks. Declawed cats should be housed indoors. Surgery may be considered if scratching behavior would lead to the removal of the cat from the household.

More Groups of Animals and Others

- a business of ferrets
- a tower of giraffes
- aloat of hippopotamuses
- a romp of otters
- acrash of rhinoceroses
- a scurry of squirrels
- a streak of tigers
- a convocation of eagles
- a stand of flamingoes
- a gaggle of geese
- a parliament of owls
- a murmuration of starlings
- a mustering of storks
- a hover of trout
- an intrusion of cockroaches
- a smack of jellyfish
THE FOLLOWING GIFTS WERE MADE TO THE MATTHEW J. RYAN VETERINARY HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA

In memory of a special pet:
- Ms. Robin Bauback in memory of "MOLSON GOLDEN"
- Mr. and Mrs. Michael Beattie in memory of "ABBY"
- Mr. and Mrs. Mark Bofigor in memory of "JOSHUA"
- Ms. Julia M. Bruno in memory of "TASHA"
- Mr. and Mrs. Alfred Cavallo in memory of "TROOPER" & "POLLY"
- Mr. and Mrs. Albert J. Ciccone in memory of "ROBY"
- Ms. Christine L. Cook in memory of "OSIRUS"
- Ms. Cindy H. Davis in memory of "CAESAR"
- Ms. Marilyn Dietrich in memory of "COCOA," "SPANKY," "SUSIE," & "SPOT"
- Ms. Gertrude M. Maken in memory of "CATT"
- Mr. Joe Dugan in memory of "MOLSON"
- Mr. and Mrs. Christopher J. Fahey in memory of "PEPPER" & "CINNAMON"
- Ms. Sonia R. Hegle-Kipp in memory of "NIKITA"
- Mr. and Mrs. Michael S. Ford in memory of "CHANCE"
- Ms. Loretta Goldberg in memory of her deceased animals
- Mr. and Mrs. Scott Green in memory of "BELLE" & "SPORT"
- Ms. Vickie Grier in memory of "FUDGE"
- Ms. Kelly A. Inmer in memory of "VELVET" & "BABY TIGGER"
- Mrs. Aubrey J. Johnson in memory of "SARAH"
- Ms. Jean A. Kiff in memory of "CHELSEA"
- Cell and George Kostick in memory of "LIBBY" & "MISTY"
- Mr. Sam Harris and Mrs. Linda Kronfeld in memory of "TAILOR"
- Mr. and Mrs. John L. Mengal in memory of Dave G. Thompson
- Mr. George E. Myatich in memory of Irene and Linda Rak
- Ms. Katherine M. Rhoads in memory of Virginia Santandrea
- Mr. and Mrs. Joseph F. Granger, Jr.
- Mr. George A. Pagano
- Mr. H. Sheldon Parker, Jr.
- Mr. and Mrs. Eugene F. Reilly
- Ms. Margaret T. O’Boyle
- PA Breast Cancer Coalition
- Michael A. Marino in memory of "SNICKERS"
- Mr. and Mrs. Clarence E. McCann in memory of "NOEL"
- Mr. William R. McKeever in memory of "PAL," "SCOOTIE," "PIPER"
- Mr. and Mrs. David Mulheimer in memory of "NELSON," "COCO," "CODY," & "BO"
- Mr. and Mrs. David W. Monahan in memory of "TARA"
- Ms. Mary Jeanette Monihan in memory of "BUBBA"
- Ms. Autumn Ning in memory of "UNS"
- Mr. and Mrs. Donald F. Pascucci in memory of "REMO"
- Mrs. Maggie Pennock in memory of "MAGIC"
- Ms. Susan R. Rachford in memory of "NIKE"
- Mrs. Joanne Reimert in memory of "BUDDI"
- Ms. Nancy Roberts in memory of "BUFFY" & "JAIMIE"
- Mr. and Mrs. Greg A. Runyan in memory of "JESSE" & "MEGGIE"
- The Scio西亚 Family in memory of "MUFFY"
- Mr. Samuel R. Scott in memory of "ROMEO"
- Ms. Sharyl M. Simmons and Mr. Bruce Dakes in memory of "JUBAL"
- Ms. Tawny L. Stokes in memory of "LINUS"
- Dr. Karen Seaman in memory of "TRAVIS ALLEN"
- Mr. and Mrs. Ray Stillman in memory of "GRETHEN"
- Ms. Vicki A. Ungar in memory of "BENNY"
- Mr. Phillip E. Walker in memory of "BUTLER"
- Mr. Gary Walsh in memory of "QUINCE"
- Mr. and Mrs. G. D. Wargo in memory of "NISSA"
- Ms. Pearl I. Weisberg in memory of "MYLO"
- Mr. and Mrs. Terrance V. Ware II in memory of "CARLA"

In memory of those listed:
- Mrs. Paula Ann Granger in memory of John Granger and Dawn Elaine Granger
- Mr. and Mrs. Ernest K. Keene in memory of Virginia Santandrea
- Mr. and Mrs. John L. Mengal in memory of Dave G. Thompson
- Mr. George E. Myatich in memory of Irene and Linda Rak
- Ms. Katherine M. Rhoads in memory of Virginia Santandrea

In memory of The Honorable Matthew J. Ryan:
- Mr. and Mrs. Edward J. Barden
- Mr. Daniel E. Beren
- Elizabeth A. Breslan
- Mr. and Mrs. A. Scott Briner
- Ms. Joan M. Broid
- Cabot Properties L.P.
- Carroll & Karagehan, LLP
- Martin T. Causer
- Kathleen F. Coulston
-County Commissioners Association of Pennsylvania
- Ms. Lynn Cutler
- Constance M. Darmiento
- Mr. and Mrs. Michael DeDiono
- Delaware County Authority
- Delaware County Bar Association
- Mr. and Mrs. Bernard J. Devlin
- Mr. and Mrs. John B. Donaphon
- Mr. and Mrs. Eric A. Dowson
- Family & Community Service Delaware County
- Maureen E. Fitzpatrick
- If It’s Water, Inc.
- Friends of Senator Jubelirer
- Yolanda J. Galantino
- Gordon W. Gerber, Esq.
- Alfred A. Gilbert
- Michael E. Gillman and Assoc., P.C.
- Mr. and Mrs. Joseph E. Granger, Jr.
- Kenneth W. Green, Jr., CPA
- Nancy C. Harvin
- Ms. Vicki Harr
- Dr. Paula K. Hess
- O. Warren Higgins
- Highmark Inc.
- Mr. Henry I. Hillman
- Robert T. Hoffmann and Assoc., Inc.
- Holston & Associates Attorneys-at-Law
- Mr. and Mrs. John B. Hufferer
- Hughley L. Law, Jr.
- Mr. and Mrs. David W. Hunter
- Ms. Louise M. Hutchinson
- Independence Blue Cross
- Peter E. Irish
- William S. Roohan
- Mr. and Mrs. Chad E. Taylor
- The Hon. Frank A. Salvatore
- Mr. Larry O. Sather
- Schumacker and Lunkenheimer, LLP
- Mr. and Mrs. John E. Sherry
- Ms. Gertrudeann L. Smith
- Ms. Nancy C. Subashi
- The Swarthmore Group
- Ms. Katherine Trus
- Upper Providence Township General Fund
- Ms. Marilyn Ware
- Helen M. White
- Helen E. Wolfe
- Wachovia Corporation
- Women’s Association for Women’s Alternatives, Inc.

In memory of Frank Kenton Cashell:
- Mr. Tim Arnold
- Mr. and Mrs. Richard J. Collins
- Mr. Wayne Carson
- Ms. Loretta Dougherty
- PS. DuPunt Class of 1948
- Ms. Sarah Erhart
- Ms. Mary Ann Fagan
- Ms. Carol Gawthrop
- Ms. Sandy Grady
- Mr. and Mrs. William Thomas Green III
- Ms. Trudi Hood
- Ms. Sharon Hubbs
- Ms. Beth Jackson
- Ms. Flo Jaros
- Mr. and Mrs. John P. Jessup
- Ms. Renie E. Kelly
- Mr. and Mrs. Robert C. Linderman
- Ms. Stacie Lynch
- Ms. Carla McDougal
- Mr. and Mrs. Michael McGrath
- Mr. Dave McElvaine
- Mr. and Mrs. C. Raeford Minix
- Ms. Sheldon Morrison
- Mr. Joe Murphy
- Ms. Nancy Obersot
- Pech, Shaffer & Williams LLP
- Ms. Norma Petersen
- Ms. Cheryl Pitterner
- Property Advisors Corporation
- Mrs. Joanne Rafidi
- Mr. Bud Rice
- Mr. and Mrs. William R. Sands

G ary R. Kraus
- Lancaster Delegation (Thomas Croighten)
- James S. Lawlor
- Dorothy L. Lawrence
- Arthur Levy
- Lima Fire Company No. 1 Fire Division
- Mr. Nicholas J. Maitre
- Mr. and Mrs. Howard R. Majer
- Mrs. Mary Alice D. Malone
- Mrs. Dorothy A. Matz
- Mr. and Mrs. John J. McFadden
- Michael C. McLaughlin LLC
- Mr. and Mrs. C.M. Meyer, Jr.
- Patrick A. Murphy, Esq.
- Northeast Republican Caucus
- Northwestern Mutual Life Insurance Co.
- Ms. Margaret T. O’Boyle
- PA Breast Cancer Coalition
- Mr. George A. Pagano

Gift for New Bolton Center

Thoroughbred Charities of America, Ltd. (TCA) made a $40,000 gift to New Bolton Center. The funds will be used to augment and refine the diagnostic equipment in the Scott Equine Sports Medicine Building, which opened last year. TCA was a major contributor to the building fund.

New Bolton Center is just one of the many institutions and organizations benefiting from TCA’s mission to support equine research, education, and the welfare of the Thoroughbred horse. A stallion season and sporting art auction are held each December at CandyLand Farm, the home of Herbert, W’53, and Ellen Moelis in Middletown, Del., to raise funds. The 2003 event is slated for December 6 and anyone who wishes to donate a stallion season or any silent auction item to benefit New Bolton Center can designate NBC as the beneficiary of the proceeds. For information, please visit the TCA website <www.thoroughbredcharities.org>.

28 BELLWETHER 57
In memory of Linda Kaintz:
Ms. Lynn Amey
Ms. Sandy Barton
Ms. and Mrs. Michael J. Basile
Ms. Linda Coco
Ms. Stephanie Davis
Mr. and Mrs. David J. Dulick
Ms. Laurie M. Ernest
Mr. Thomas Herd
Ms. Arleen Laporte
Mr. and Mrs. E. James Monihan
Mr. and Mrs. Phillip G. Pinton
Mr. John Shearer and Mrs. Patricia A. Fox
Ms. Eleanor G. Strelzoff
Mr. and Mrs. Richard J. Strusowski
Ms. Lynn Wilkins
Mr. and Mrs. Larry Zipprich

In honor of a special pet:
Mrs. Dory Dore in honor of “BOO-BOO”
Ms. Diane Frances in honor of “MAX”
Ms. Jodi Haffer in honor of “MAGGIE”
Ms. Rebekah S. Klein in honor of “EBON” & “GRiffin”
Mr. and Mrs. Joel E. Marcus in honor of “BREEZY”
Ms. Robert S. Marcus in honor of “MURPHY”
Ms. Janice F. Palmer in honor of “BURKLEY”

In honor of those listed:
Mr. and Mrs. Lance Beatty in honor of Dr. Callen
Mr. and Mrs. Joseph J. Bohovic in honor of Dr. Lillian Duda
Ms. Diane Frances in honor of Dr. Lillian Duda
Mrs. Joanne Frazier in honor of Dr. Elizabeth LaFund
Mr. Sam Harris and Mrs. Linda R. Kroufeld in honor of Kayla Rayne Kapito’s Bat Mitzvah
Mr. Robert S. Marcus in honor of Dr. Robert Washabau and Dr. Lillian Areson
Lisa and Jamie Mattlin in honor of Kathy and Ron Medford’s birthdays and their anniversary
Ms. Leiliza O. Principato in honor of Bernice M. Carlin
Mr. and Mrs. Arthur A. Reale in honor of Ms. Nona J. Starzyk’s birthday
Bonnie Timmons and Bill Wunsch in honor of Shane of West Marlborough

The following made gifts supporting the Clinical Studies Research Development Fund in memory of a special pet:
Mr. and Mrs. Garloff in memory of “BOO”
Mr. Jon R. Simpson in memory of “KEANA”
Ms. Nancy Sullivan in memory of “CHERRY POP (aka TOOMEY),” “PUFE,” “MAGGIE”

The following made gifts supporting Clinical Research in memory of those listed:
Mr. David K. Erikson in memory of Lorraine N. Erickson

The following gifts supporting Clinical Research in honor of those listed:
KKI, Inc. in honor of Dr. Margret Casal

The following made gifts supporting the Radiation Therapy Facility Fund in honor of a special pet:
Ms. Gloria J. Bain in honor of “BRITTANY”
Ms. Karen Bain in honor of “BRITTANY”

The following made gifts supporting Oncology Research in memory of a special pet:
Mr. and Mrs. Mark D. Blasko in memory of “BAILEY BOO BOO KITTY”
Ms. Venecia M. Dotter in memory of “TRACKER”
Ms. Joan Flowsman in memory of “SAMPSON”

The following made gifts supporting Oncology Research in honor of those listed:
Ms. Carolyn R. Rowan in honor of Dr. Elizabeth McMurtrie

The following made gifts supporting the Orthopedics Research Fund in memory of a special pet:
Ms. Christine M. Gilbert in memory of “TEDDY”

The following made gifts supporting Dr. Maggie Casal’s Canine Genetic Disease Research in memory of a special pet:
Mrs. Helma N. Weeks in memory of “SASSY”

The following made gifts supporting Dr. Beth Callan’s Genetic Disease Research in honor of those listed:
Ms. Linda G. Burk in honor of Dr. Beth Callan

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.

A life income gift can help you 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>
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</thead>
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<tr>
<td></td>
<td>Income rate</td>
<td>One-time income tax deduction</td>
</tr>
<tr>
<td>60</td>
<td>5.7%</td>
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<tr>
<td>65</td>
<td>6.0%</td>
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<tr>
<td>70</td>
<td>6.5%</td>
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<tr>
<td>75</td>
<td>7.1%</td>
<td>$4,006</td>
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<tr>
<td>80</td>
<td>8.0%</td>
<td>$4,585</td>
</tr>
<tr>
<td>85+</td>
<td>9.5% (max. rate)</td>
<td>$5,017+</td>
</tr>
</tbody>
</table>

Stretch Your Racehorses... Resources

Dean Rush Shippen Huidkoper on Pandora in an Eadweard Maybridge study in the late 19th century. (We stretched the picture.)

Mr. and Mrs. John M. Sergeant
Mr. Steve Szczerba
Ms. Joni Ward
Mr. and Mrs. Michael J. Basile
Ms. Linda Coco
Ms. Stephanie Davis
Mr. and Mrs. David J. Dulick
Ms. Laurie M. Ernest
Mr. Thomas Herd
Ms. Arleen Laporte
Mr. and Mrs. E. James Monihan
Mr. and Mrs. Phillip G. Pinton
Mr. John Shearer and Mrs. Patricia A. Fox
Ms. Eleanor G. Strelzoff
Mr. and Mrs. Richard J. Strusowski
Ms. Lynn Wilkins
Mr. and Mrs. Larry Zipprich

Resources

Mr. Don Wilson
Ms. Joyce Woods

In memory of a special pet:
Ms. Joan Plowman in memory of “SAMPSON”
Lila and Janie Matlin in honor of Kathy and Ron Medford’s birthdays
Ms. Letitia O. Principato in honor of Bernice M. Carlin
Ms. Carolyn R. Rowan in honor of “LULU”

Mr. and Mrs. Mark D. Blasko in memory of “BAILEY BOO BOO KITTY”

The following made gifts supporting Oncology Research in memory of those listed:
Ms. Ms. Karen Bain in honor of “BRITTANY”
Ms. Rebekah S. Klein in honor of “EBON” & “GRIFFIN”
Ms. Jodi Heffer in honor of “MAGIC”
Ms. Diane Frances in honor of “MAX”
Ms. Maureen P. Dore in honor of “BOO-BOO”

Mr. and Mrs. Lance Beatty in honor of Dr. Callen
Mr. and Mrs. Joseph J. Bohovic in honor of Dr. Lillian Duda
Ms. Diane Frances in honor of Dr. Lillian Duda
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Mr. and Mrs. Arthur A. Reale in honor of Ms. Nona J. Starzyk’s birthday
Bonnie Timmons and Bill Wunsch in honor of Shane of West Marlborough

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Mr. and Mrs. Joseph J. Bohovic in honor of Dr. Lillian Duda
Ms. Diane Frances in honor of Dr. Lillian Duda
Mrs. Joanne Frazier in honor of Dr. Elizabeth LaFund
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Ms. Nancy Sullivan in memory of “CHERRY POP (aka TOOMEY),” “PUFE,” “MAGGIE”

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Ms. Karen Bain in honor of “BRITTANY”

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Mr. and Mrs. Mark D. Blasko in memory of “BAILEY BOO BOO KITTY”
Ms. Venecia M. Dotter in memory of “TRACKER”
Ms. Joan Flowsman in memory of “SAMPSON”

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Ms. Christine M. Gilbert in memory of “TEDDY”

The following made gifts supporting Dr. Maggie Casal’s Canine Genetic Disease Research in memory of a special pet:
Mrs. Helma N. Weeks in memory of “SASSY”

The following made gifts supporting Dr. Beth Callan’s Genetic Disease Research in honor of those listed:
Ms. Linda G. Burk in honor of Dr. Beth Callan

The following made gifts supporting Dr. Meryl Littman’s Soft Coated Wheaten Terrier Research in honor of those listed:
Mr. and Mrs. Dean S. Geibel in honor of Dr. Meryl Littman

THE FOLLOWING CONTRIBUTED TO THE DEAN’S FUND:
In memory of those listed:
Robert Adey, V.M.D. in memory of Richard Blickman, V.M.D.
Dr. and Mrs. Robert W. Despres in memory of Donald G. Veburst, V.M.D. and Stanley Owen Travis, V.M.D.
Linda Schaffer, V.M.D. in memory of Dr. Harvey Waltz
The following contributed to the Veterinary Student Scholarship Fund:

In memory of those listed:
David H. Allgeier, V.M.D. in memory of Dr. Eric Tulleners
Emily Graves, V.M.D. in memory of Dr. Eric Tulleners
Kristen S. Havland, V.M.D. in memory of Mrs. Carol McDevitt
Jonathan E. Meineke, V.M.D. in memory of Dr. and Mrs. Lester R. Butz
Michelle L. Paul, V.M.D. in memory of Elizabeth Claffey, V.M.D.
Thomas S. Sanqini in memory of Dr. Robert Brody

In honor of a special pet:
Ms. Barbara R. Strauss in honor of “TUPTIM”

In memory of a special person:
Regina De Lorenzo, V.M.D. in memory of “BANDIT”

THE FOLLOWING CONTRIBUTED TO THE DR. DAVID H. KNIGHT MEMORIAL FUND: 

Ms. Anita D. Bodell
Mr. Eric D. Knight
Susan Lazarus Trust

THE FOLLOWING CONTRIBUTED TO THE NEW TEACHING AND RESEARCH BUILDING FUND:

In memory of a special pet:
Charles N. Bell, V.M.D. in memory of “LOOCH”

THE FOLLOWING MEMORIAL OR HONORARY GIFTS WERE MADE TO NEW BOLTON CENTER:

In honor of a special person:
Dr. Richard O. Davies in honor of Dr. James Orsini
Charles J. Drihen, V.M.D. and Burt-Moor-Deben Animal Hospital in gratitude for services by Saul Bresalier
Patricia Heukeroth, Inc. in appreciation of Dr. Jill Beech
Mr. & Mrs. Paul Schultz in appreciation of Dr. Eric Parente
Ms. Margaret Gardner in honor of Jill Beech, V.M.D.
Mr. & Mrs. John K. Samuel in honor of Dr. Virginia Reef

In honor of a special animal:
Ms. Eileen M. Corl in memory of “ASTRO”

Ms. Doris Boucher Ritter in memory of William B. Boucher, V.M.D.

Ms. Aileen J. Elliott in memory of “SPENCER” and “RED FRED”

Mrs. Doris Boucher Ritter in memory of William B. Boucher, V.M.D.

In memory of a special person:
Mr. Eric T. Haas in memory of Dr. Eric P. Tulleners
Ms. Doris Boucher Ritter in memory of William B. Boucher, V.M.D.

In honor of a special animal:
Ms. Eileen M. Corl in honor of “CLOVER”

In memory of a special animal:
Ms. Charlie F. Beech in memory of “HAPPY”
Jennifer E. Beech in memory of “ASTRO”
Mr. & Mrs. Barry E. Cose-Piper in memory of “GAMBIT”
Ms. Aileen J. Elliott in memory of “SPENCER” and “RED FRED”
Mr. & Mrs. John J. Gabel in memory of “PEPE”

Other Memorial or honorary gifts to New Bolton Center:

A gift was made toward the Baker-Tulleners Endowed Fund by Malcolm Borthwick, Jr., V.M.D. in honor of Charles W. Baker, V.M.D.
A gift was made toward The Spot Castle Fund by Mr. and Mrs. John K. Castle in honor of Dr. James A. Orsini and in memory of “SPOT”
A gift was made by Ms. Margaret Gardner in honor of Jill Beech, V.M.D.
A gift was made toward Neonatal Research by Joanne Hardy, V.M.D., Ph.D. in honor of Dr. Pam Williams and Jonathan Palmer, V.M.D.
A gift was made by Sarah L. Ralston, V.M.D. to the Dr. Charles E. Reid Scholarship Fund in his honor
A gift was made toward the William B. Boucher Field Service Award by Mrs. Doris Boucher Ritter in memory of William B. Boucher, V.M.D.
A gift was made toward Dr. Virginia Reef’s Research by Ms. Suzanne E. Taber in memory of “MCRPHF”
A gift was made by James F. Thompson, Jr., V.M.D. to the Dr. M. Lynn Sammons Award in Bovine Medicine in her memory

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse back-
grounds. The University of Pennsylvania does not discrimi-
nate 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 administra-
tion of educational policies, programs or activities; ad-
missions 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 19104-6010 or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).

The following scholarships were awarded to the following members of the Class of ’05: Rachel Cianciolo, Derek Cissell, Stephanie DiFranchis, Hannah Flynn, Nora Grenauer, Lauren May, Brian Palmiero, Zoe Ramagnano, Sarah Reuss, Fred Winingier, and Billie Zeigler.

Alberto Rullan-Mayol, V’06, is the recipient of the Dr. John Baxter Taylor Dean’s Scholarship. New York Farmers Scholarships were awarded to the following members of the Class of ’04: Ellen Angstadt, Raul Casas-Dolz, Alexander Simon, and James Shissler. Eberhard LeSchein Founders Scholarships were awarded to the following members of the Class of ’04: Vivian Orita, Jocelyn Patterson, Laurie Prober, Christine Spodnick, and Bridget Stewart.
Saratoga Comes to Philadelphia!

On Friday June 13 and Saturday, June 14, the sights and sounds of Saratoga Springs, N.Y. could be seen and heard in and around Philadelphia. The Committee for An Evening in Old Saratoga, an event that has raised approximately $800,000 for the School’s New Bolton Center over the past dozen-plus years, reconstructed its weekend-long event in Philadelphia this year, where most of the Committee members have their roots.

More than a dozen antique carriages and road coaches came from places as far apart as Middleburg, Va. and Boston, Mass., to support a weekend of driving and fundraising for New Bolton Center and the Devon Horse Show Foundation. A black-tie dinner dance and silent auction took place on Saturday evening at Ardrossan Farm in Villanova, Pa., the inspiration for the Katherine Hepburn movie The Philadelphia Story, which gave the weekend its theme. A charming note from Miss Hepburn’s assistant advised that due to age and delicate health, Miss Hepburn would be unable to attend the gala, but she wished us good luck. Sadly, Miss Hepburn died just two weeks after the gala.

Nearly 330 guests from across the Philadelphia region, as well as others from Virginia, New Jersey, and New York, and places even further afield, danced to big band music, ate at tables decorated in the signature blue and yellow of An Evening in Old Saratoga, and bid on a variety of items displayed in the gorgeous surroundings of Ardrossan Farm’s main house. Fabulous vacations, antiques, sporting art, gourmet meals, unique artifacts, and services made up the silent auction inventory. There was something to please everyone—even if that “everyone” already had “everything.”

The Committee of An Evening in Old Saratoga anticipates a stellar outcome from the fundraiser. Beverly Ensor, the Board of An Evening in Old Saratoga, and the entire Committee have once again achieved a stunning success in support of New Bolton Center. The School thanks them for their hard work, creativity, and resourcefulness, and we thank all who attended the Gala or brought coaches and horses for their wonderful generosity and enthusiasm for this event. Everyone looks forward to another fabulous weekend in June 2004!
Upcoming Events

October 2003

11
Parents and Partners Day 2003
Philadelphia and New Bolton Center Campuses
Parents and partners of first-year students receive an overview of veterinary education at Penn Veterinary Medicine. For information, contact Amy Bogdanoff at (215) 898-4234 or via e-mail at <bogdanof@vet.upenn.edu>.

November 2003

19
2:00-4:00 p.m.
Veterinary Medical Alumni Society Executive Board Meeting
Alumni Hall
New Bolton Center

22
6:00 p.m.
Alumni Reception
American Association of Equine Practitioners Annual Convention
Hilton New Orleans Riverside Hotel
New Orleans, La.
For information, contact Joshua E. Liss at (215) 898-1481 or via e-mail at <lissj@vet.upenn.edu>.

January 2004

10-17
Pennsylvania Farm Show 2004
Farm Show Complex
Harrisburg, Pa.
Visit Penn Veterinary Medicine’s booth at the largest indoor agricultural event in America.

February 2004

18
8:00 p.m.
Alumni Reception
The North American Veterinary Conference
Marriott Orlando World Center Hotel
Orlando, Fla.
For information, contact Joshua E. Liss at (215) 898-1481 or via e-mail at <lissj@vet.upenn.edu>.

28
2:00-4:00 p.m.
Veterinary Medical Alumni Society Executive Board Meeting
Ryan Veterinary Hospital at Penn

March 2004

11-12
2004 Penn Annual Conference
Adam’s Mark Hotel
For information, visit <http://alumni.vet.upenn.edu/pennannualconference.html>.

11
2:00-4:00 p.m.
Veterinary Medical Alumni Society Executive Board Meeting at 2004 Penn Annual Conference

May 2004

12
2:00-4:00 p.m.
Veterinary Medical Alumni Society Executive Board Meeting
Alumni Hall
New Bolton Center

17
Penn Veterinary Medicine Class of 2004 Commencement

June 2004

25
6:30 p.m.
Alumni Reception
American Veterinary Medical Association Annual Convention
Loews Philadelphia Hotel, 33rd Floor
For information, contact Joshua E. Liss at (215) 898-1481 or via e-mail at <lissj@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

Visit the School’s website at www.vet.upenn.edu