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Dear friends:

I could not be more privileged to be the first endowed dean at any veterinary school in North America, and I am delighted to send you my initial report as the Gilbert S. Kahn Dean of Veterinary Medicine. I wish to thank the many people who were wonderfully supportive and generous to me in the 12 months I served as Acting Dean and, incidentally, gained an apprenticeship at deaning; without their expert guidance I would not be writing to you today.

As we prepare to greet the 21st century, what are my ambitions for the School? The answer is not simple, for the challenge—and opportunities for veterinary medicine today—are more varied and complex than ever. Mainstream America is increasingly concerned about the safety and quality of its food supply, about ethical issues and the use of animals by society, and about the environment in which it lives. We must address these concerns and meet society's demand for ever more sophisticated diagnostic procedures and therapies; we must deliver a different type of service to production agriculture; we must master new and emerging infectious diseases of animals, especially those that they transmit to man; we must embrace the fledgling aquaculture industry; we must sustain the competitiveness of the Nation's animal industry in a global market; and we must be in the vanguard of advancing biotechnology.

These are exciting challenges which will require that the School make strategic choices as we focus on the future. Of prime importance is our ability to attract a highly talented body of students despite financial background. We must provide a first class learning experience. Our graduates are our most precious legacy and they are the standard by which the School will be measured for years to come. Unfortunately, as the cost of veterinary education progressively rises, more of our students must borrow to pay for their education. Far too many graduate with a crushing debt burden that can severely limit career options. We must transform this situation by expanding scholarship endowment and seeking relief from the General Assembly in Harrisburg.

We have a proud tradition of commitment to fundamental research and a number of parameters support our claim that the School is the leading research veterinary school in the world. To secure our future we must sustain this position and remain at the cutting edge of biomedical research. Because of the broad sweep of veterinary medicine's responsibilities to society, our mission must include studies at all levels of biological organization from gene structure to environmental design. We must strengthen interactions between the clinician and the bench scientist. The School can use its intellectual and physical resources at this interface, benefitting our teaching program and advancing the services we provide to society. The application of molecular biology and the emerging biotechnology industry are on the verge of introducing new diagnostic methods and treatments for a spectrum of diseases and significantly changing veterinary medicine. The School must eagerly play a central role in leading the profession in these emerging fields of growth.

Alan M. Kelly, B.V.Sc., M.R.C.V.S., Ph.D.
The Gilbert S. Kahn Dean of Veterinary Medicine

Landreau Honored by Board of Overseers

Dr. Laurie J. Landreau, V'84, was honored by the Board of Overseers for her many contributions to the School. Dr. Landreau serves on the Board, she is very actively involved in the Aquavet® program and teaches veterinary aquatic medicine. Dr. Landreau served on the “Save the Veterinary School Committee” and each year supports the benefit event for the School at Saratoga. Shown here are William Schawbel, chair, Board of Overseers, and Christine Connelly, vice chair of the board, as they present Dr. Landreau with a miniature of the Benjamin Franklin sculpture on campus.
Splendid Recovery

He is called “Miracle Horse,” “Steeplechase Marvel” and “Living Legend.” Wherever he competes, members of his fan club are there to cheer him on, and turf reporters chronicle his career with a note of awe. Victorian Hill, steeplechasing’s all-time leading money winner, defied all odds in the spring of 1992 when he returned to racing after rebounding from complex colic surgery the previous fall. He finished second in the Atlanta Cup and won the Iroquois for a second year. Three years later he is still going strong, participating in the 1995 steeplechase season under the management of his trainer, Janet Elliot.

“Vic was a lucky horse,” says Dr. Midge Leitch, his veterinarian. “He got sick during the day in a barn where people paid close attention. He received immediate veterinary care and got to surgery quickly, before a toxic reaction could develop. And he was lucky that he was near a major veterinary center.”

“The horse was seriously ill when he was admitted to New Bolton Center in September 1991 after being stricken by colic. We were told that he might not survive the surgery,” recalls William Lickle, his owner. “When he came through the procedure alright, it was not known whether he could race again because half his large colon had to be removed to save his life. Only very few horses had survived such a surgery and none had ever competed again.”

The surgery, performed by Dr. David Freeman and Dr. William Haynes, was a forward looking piece of surgery,” explains Dr. Leitch. “The colon was resected and a side-to-side anastomosis was performed. Ten years ago this couldn’t have been done. It is really marvelous how treatment horizons have expanded, not just at New Bolton Center but in equine veterinary medicine in general.”

It helped that Vic was left with seven feet of large colon and that he was in superb health and condition prior to the colic episode. But the illness took its toll. “He lost 300 pounds of bodyweight in a very short time because he had to be confined to his stall,” says Mr. Lickle.

Vic left New Bolton Center’s Intensive Care Unit soon after surgery to first recuperate slowly under the care of Dr. Leitch and then at the stable of Janet Elliot. In the months that followed, his feeding regimen had to be changed to accommodate his drastically reduced digestive system. It required frequent feedings of roughage and gradual addition of grain to bring him back to condition. “The colon is vital to water absorption and the conversion of feedstuffs like grain and hay into the proteins that are needed to build, maintain and fuel a horse’s body,” explains Dr. Leitch. “We had to develop a diet and feeding regimen that would take into account Vic’s reduced colon capacity and would provide maximum protein uptake to allow him to regain condition and then maintain it. Once he returned to training and competition, these added demands had to be taken into account.” Vic’s diet was developed over a period of time by Dr. Leitch and New Bolton Center clinicians. Intake and output were and are monitored to watch for signs of trouble like impaction. These close watches paid off — twice he developed abdominal discomfort and was treated at once and no complications developed.

Vic’s recovery was taken a day at a time. Gradually he was turned out and as his activity level increased, light training was added. Things progressed and the horse resumed training. “We didn’t know whether it would work,” says Dr. Leitch. “But he lived at a training center where he was closely watched and monitored. I think his recovery is due in great part to the immaculate care and close attention he received.”

In his remarkable career, Victorian Hill has won over $700,000, exceeding his nearest rival by more than a quarter million dollars. And from all indications, Vic will keep adding to his earnings as he is, according to Mr. Lickle, “recovered from the surgery.”

Vic’s contribution to the record books is not all. “He plays an important role in equine medicine,” says Dr. Leitch. “His survival and performance demonstrate that a horse may function well with half a colon, provided it receives a high level of care. He set an example of success and pushed treatment limits a bit further — this in turn may help save the lives of other horses that would be considered ‘hopeless cases’ if it weren’t for Victorian Hill’s example.”

Director of Development Appointment

David Nelson has been appointed the School of Veterinary Medicine’s new Director of Development and Alumni Relations, effective July 1. David was the Director of Development at the University of Pennsylvania Museum, a post he held for nine years. During his tenure at the University Museum, David orchestrated its successful $23 million capital campaign. Before joining the University, David served in fundraising positions at the Philadelphia Zoo and the American Red Cross.
School to Build First Solar Dairy Barn in Pennsylvania

The University of Pennsylvania School of Veterinary Medicine has completed plans and signed contracts to start construction of a 200-head solar dairy barn for teaching and research at New Bolton Center in Chester County. The Allam Dairy Facility solar dairy barn will be a first in Pennsylvania. This type of barn, usually built in the Northern states and Canada, has proved to be a big boon to the dairy industry. A solar barn is energy efficient, naturally bright, and easy to keep dry, all essential conditions for productive cows. Also, it is cost effective in terms of manpower and building expense.

The Allam Dairy Facility solar dairy barn is named after Emeritus Dean, Dr. Mark W. Allam, Class of '32. Dr. Allam was interim dean of the School of Veterinary Medicine from 1952-1953. In 1953 he was appointed dean and remained in that capacity until 1973. Dr. Allam was instrumental in the development of New Bolton Center and still takes a great interest in it.

The new Allam Dairy Facility at New Bolton Center will serve as a living laboratory for the School of Veterinary Medicine. “It is a commercial dairy with modifications for extensive and intensive research. We recognized that in order for us to do relevant research we needed the environmental setting that emulates the real world,” says Dr. William Chalupa, professor of nutrition at the School’s Center for Animal Health and Productivity (CAHIP). “It’s like having an on-site patient for us to study,” states Dr. David Galligan, associate professor of animal health economics at the School. “In this case our patient is the farm. We now can explore ways to keep the dairy farm healthy and productive while keeping costs at a minimum through the use of a living model.”

The new facility will serve as a research and teaching site in such fields as epidemiology and preventative medicine, nutrition, reproduction, infectious and chronic diseases, and dairy cattle health economics. In addition, the new Allam Dairy Facility will provide the region a resource with potential for commercial applications and enhance the teaching environment for veterinary and graduate students interested in the medical and managerial aspects of dairying.

“In order to adapt to our climate we’ve made design modifications to reduce heat build-up,” Dr. Galligan explains. “The shell of the building is pre-manufactured as a solar agriculture building, in essence, a plastic greenhouse.” In the summer, the sides of the barn can be rolled to facilitate cross ventilation. The facility consists of an administration area that includes a room with view of the double ten herringbone milking parlor; four sections of 40 free stalls where cows can lie down; and, a space for 48 comfort stalls or traditional tie stalls. A commodity building and bunker silos will be located on the north side of the barn.

“The layout of the free stall area enables us to care for and milk approximately 160 cows with relatively little labor,” says Galligan. Through the use of electronic gates, the cows can be herded to the milking parlor and milked, requiring the labor of only one person.

The tie stall area accommodates 48 cows which are tied-up at feed bins in a traditional dairy farm fashion. This setup will be used primarily for nutritional studies. Each cow can be fed a different mix and monitored by computer. The tie stall area of the barn can be converted to a free stall-style barn, if needed. Manure from the entire barn is deposited into an eight-month holding tank and is periodically and strategically spread onto fields which reduces the need for chemical fertilizer, cutting the overall farm cost.

The new dairy facility is made possible by a grant from the Commonwealth of Pennsylvania and through the generosity of the following: American Cyanamid Company, Princeton, NJ; The Bedford County Farmers Association, Bedford, PA; Church and Dwight Company, Inc., Princeton, NJ; Mr. Emerson C. Frey, Millersville, PA; Mr. W. B. Dixon Stroud, Media, PA; and Wawa, Inc., of Media, PA.

Penn’s Center for Animal Health and Productivity at New Bolton Center, the School’s large animal facility, was established in 1986 to implement teaching, research and service programs directed toward the improvement of health and productivity in food animal herds and flocks. The focus of CAHIP is improved production through the maintenance of physical and economic health in the whole animal population.
Transplanting Brain Cells Shows Promise for Treating Some Causes of Mental Retardation

Researchers from the University of Pennsylvania School of Veterinary Medicine and Harvard Medical School have successfully treated in mice brain lesions which may contribute to mental retardation. The results were published in the March 23 issue of the journal Nature.

The researchers transplanted healthy immature brain cells into the brains of young diseased mice. As the mice aged, the donor cells planted themselves throughout the brain, secreted a missing enzyme, and appeared as normal components of the central nervous system. This resulted in a widespread correction of the disease process. This strategy was successfully accomplished by John H. Wolfe, V.M.D., Ph.D., of the School of Veterinary Medicine at the University of Pennsylvania in Philadelphia, Evans Y. Snyder, M.D., Ph.D., of Harvard Medical School and Children's Hospital in Boston, and colleagues.

"The immature brain cells that we transplanted into the diseased brains matured into normal brain cells. Apparently, these young cells, whose mature form was still undetermined, migrated into regions of the brain and developed into the appropriate cells of each region," said Evan Snyder, of the departments of Neurology and Pediatrics at Harvard and Children's Hospital.

The researchers have been studying mice with a disease called mucopolysaccharidosis type VII. This is the animal model for the human disease called Sly disease which affects fewer than 1 in every 100,000 humans. Because of an inherited deficiency of an enzyme called beta glucuronidase, substances called glycosaminoglycans accumulate in the brain and other tissues where they cause damage that leads to a progressive and ultimately fatal degenerative disease accompanied by mental retardation. Sly disease belongs to a broader group of inherited diseases characterized by defects in the breakdown of biomolecules, and which affect approximately 1 in every 1,500 humans.

To correct this deficiency in mice, the researchers transplanted a cell line of neural progenitor cells into the cerebral ventricles within the brains of the newborn mice. By the time the mice reached maturity, the donor cells which secreted the missing enzyme, had engrafted throughout the brain and appeared as normal constituents of the central nervous system, resulting in widespread correction of the disease process. This may be a model for treating other genetic diseases affecting the brain or delivering other types of therapeutic substances to the brain in other types of diseases. It is the first report of using these novel vehicles to treat a widespread genetic central nervous system disease.

Many metabolic diseases of the central nervous system do not respond to treatment because the blood-brain barrier blocks the entry of drugs and therapeutic molecules in the brain. One way of getting around this dilemma is to transplant healthy immature nerve cells, or "neural progenitor cells" directly into the brain.

Even mice with transplanted cells that lived to an old age showed a dramatic absence of pathology in the brain, indicating a permanent improvement.

"Someday we would like to translate what we learn from these mice to humans, but we still are far away from that," said John H. Wolfe of the Laboratory of Pathology and the Section of Medical Genetics at Penn's Veterinary School. It will entail a better understanding not only of the diseases that cause mental retardation, but also the basic biology of the immature donor nerve cells, cautioned Wolfe and Snyder.

Elizabeth R. Moran Honored

The School honored Elizabeth Ranney Moran during a special dinner in May. Shown here are Dean Kelly, Mrs. Moran and Mrs. Kelly. Mrs. Moran was presented with the following citation:

In recognition of your generous spirit and great devotion to the equine athlete
Your insight into the needs of the horse industry, your commitment to so many of its worthy causes, and your joy in all aspects of the sport horse make you, Betty, an inspiration to all equine enthusiasts. Your gracious philanthropic efforts in support of New Bolton Center have left an indelible mark on NBC faculty and facilities through the Moran Heart Station; the Surgical Suite and Creme Fraiche Nursing Station; through the Allam Professorship; and through research, especially in sports medicine and comparative orthopedics. The Center and all of us personally are indebted to you for your outstanding and steadfast leadership and immeasurable kindness in support of programs for the care of horses.
Veterinary Volunteer

Veterinarian Joseph Gudos, V’94 and his wife, Julie Brunner, embarked for Bulawayo, Zimbabwe last September for a year-long stint as volunteers at the Chipangali Wildlife Trust. Biologist Vivian Wilson and his family founded Chipangali more than 20 years ago as a center for wildlife rehabilitation, research and the captive breeding of endangered African animals. Unable to afford the "luxury" of a permanent veterinary program, the Wilsons accepted a proposal by volunteers Joe and Julie in conjunction with the Philadelphia Zoo’s ONE WITH NATURE program to conduct a pilot volunteer project...

When I first imagined working as a veterinarian at the Chipangali Wildlife Trust, I really didn't know what to expect. Finishing my last days of clinics at the Veterinary Hospital of the University of Pennsylvania, I wondered what it would be like to work in Zimbabwe. I imagined spinning micro-hematocrit tubes on Land Rover cooling fans and having to re-sharpen disposable needles to keep from running out. Occasionally, I even wondered if I would have any drugs to use. I once visited a rural health clinic in Tanzania where the physician's only drug was aspirin. She gave it for machete wounds, fungal infections, anxiety attacks—you name it.

Fortunately, conditions were not as primitive as I had feared myself into believing. Although Chipangali has not had a resident veterinarian since its inception over 20 years ago, many things were already in place to facilitate my work here. The Wilson family has done an amazing job of providing top-notch care for their animals without the benefit of a veterinarian.

After arriving and eviction the rats from the dormant veterinary clinic and laboratory, I was ready for work. My first patient was an injured vervet monkey. Someone at a local farm had found the monkey lying under a tree with a large wound to its thigh. It was an old wound and the infection had obviously spread through his body. After anesthetizing the monkey, an intravenous drip was started and the leg was scrubbed for surgery. All the old infected tissue was removed and the skin was stitched closed. He didn't seem to mind the bandage on his leg, but he sure hated the daily antibiotic injections.

Chipangali functions as the wildlife rehabilitation center for Zimbabwe. Animals like the little vervet monkey arrive almost on a daily basis. Some have been shot, others hit by cars, attacked by dogs, or just found orphaned. It still amazes me the distances people will travel to bring animals to Chipangali. One day a woman who had driven five hours brought us an injured secretary bird. Another time a man walked 27 kilometers through the bush to bring in a litter of three orphaned black-backed jackals.

Many of the animals brought to Chipangali are later released back into the wild. It is my job to examine them prior to release to be certain they are capable of surviving on their own and that they are not carrying infectious diseases that could be transmitted to other wild animals. I also tattoo all released animals so we know if they have become nuisances or cannot survive on their own. Since my arrival, we have released a troop of 27 vervet monkeys, two hedgehogs, three genets, seven barn owls, a gabar goshawk, and a bush squirrel. Soon we will be releasing a troop of 18 baboons and nine black-backed jackals.

Animals that cannot be released are kept here at Chipangali. Rare captive animals are encouraged to breed and behavioral research is conducted. Thousands of people a year visit the park to see African wildlife up close and learn about natural history. Caring for the resident animals is a time-consuming task. All animals receive routine vaccinations and dewormings. Also, like anywhere, animals are kept, emergencies arise. Just last month I arrived at work to find that one of the spotted hyenas had chewed through its enclosure and into that of the neighboring lion. Maybe there was a leftover bone he wanted, or maybe he was just tired of being in the same old pen. Needless to say, the lion was none too happy about having a new cage mate, and proceeded to give the hyena quite a beating. Surprisingly, the hyena held its own. I still spent over an hour cleaning and stitching up claw wounds, but would certainly have expected much more damage to an animal only a quarter the size of its attacker.

Life as a volunteer veterinarian is not often easy or glamorous, but it is certainly exciting for me to assist in the development of a permanent veterinary care program at Chipangali. This story would be incomplete, however, if I didn’t mention my wife, Julie. She has put her career on hold for a full year to be my constant companion, keep me laughing, and share in the challenging work.

By Joseph Gudos, V'94
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Penn Researchers Develop Technique to Transplant Reproductive Cells

A team of researchers at the University of Pennsylvania has developed a technique for transplanting immature sperm cells directly into the testis of infertile animals, and demonstrated that the immature cells will grow and develop into normal mature sperm. The technique holds great promise for biomedical science as scientists seek new tools to eradicate genetically transmitted diseases.

The process was developed by Dr. Ralph Brinster, Richard King Mellon Professor of Reproductive Physiology at Penn's School of Veterinary Medicine. The research was reported in two articles in the November 22, 1994 issue of the Proceedings of the National Academy of Sciences. Working with mice, Brinster and his team have found that the donor cells will multiply and re-populate the recipient's testis, giving the animal the ability to transmit the donor's genes to offspring.

The technique focuses on a population of primitive cells known as spermatogonial stem cells. These cells replicate throughout the life of the animal, from birth to old age, giving rise to cells that develop into mature sperm cells. Brinster's work now makes this population of cells available for experiments in ways not possible before.

"These cells undergo self-renewal throughout life, and have the ability to transmit genes to successive generations. In this sense, they can be thought of as immortal," Brinster said. "Learning how these spermatogonial cells differentiate and the factors that influence the direction they take can teach us about normal and abnormal development, and thereby contribute to our understanding of disease," he said. According to experts, Brinster's findings will allow scientists to gain insight into reproductive cell development.

"Dr. Brinster's work will provide new impetus for studying cellular control of spermatogenesis and for manipulating the germ line of farm animals. I anticipate that these investigations will set new directions for research at the School of Veterinary Medicine," said Dr. Alan Kelly, dean of Penn's School of Veterinary Medicine. "We are immensely proud of Dr. Brinster. His research is extremely exciting and has very important ramifications for veterinary medicine and animal agriculture." Kelly said.

For his contributions in establishing methods to grow and manipulate germ cells in the laboratory as well as his use of this research to study development, Brinster has received many honors, including election to Membership in the National Academy of Sciences. In addition, he has received the New York Academy of Sciences Award in Biological and Medical Sciences, the Distinguished Service award of the U.S. Department of Agriculture, the Pioneer Award from the International Embryo Transfer Society, and the Charles Leopold Mayer Prize, the highest prize of the French Academy of Sciences.

Harold H. Fehr Emergency Service Pavilion

On December 7, the Harold H. Fehr Emergency Service Pavilion at the Veterinary Hospital of the University of Pennsylvania was dedicated. Made possible by a major planned gift by Harold H. Fehr, a 1923 graduate of the University's Wharton School, the Emergency Service was completely renovated to meet the demands of the high case load.

In 1981, when VHUP opened its doors, the Emergency Service anticipated handling about 400 cases annually. Since then, the caseload increased to more than 8,000 patient visits per year, making VHUP's E.S. the busiest such service in an university veterinary teaching hospital in the nation. As the case load grew so did the number of nurses, residents and clinicians, and as technologies advanced, more pieces of sophisticated diagnostic and treatment equipment were added. Space became tight and the area needed to be enlarged and renovated to comfortably accommodate the patient load.

Plans were prepared to change the layout of the Emergency Service, to enlarge the treatment room, and to create an isolation ward accessible from the treatment area. Space was gained by eliminating a corridor and reducing the size of three exam rooms.

During the renovation, Emergency Service took over a number of exam rooms and the treatment room in the clinic area of VHUP. There was no downtime for E.S.: patients arrived at all hours of the day and night and were treated in temporary quarters. By the evening of December 15 owners and patients were using the new waiting area and care was provided in the brand-new larger treatment room. The Harold H. Fehr Emergency Pavilion now rivals the most advanced trauma/emergency treatment and diagnostic center in human medicine.

The Emergency Service at VHUP, one of the busiest areas of the hospital, is the cornerstone of the Center for Veterinary Critical Care (C.V.C.C.), the first wholly integrated small animal critical care unit in the world.
Dear Alumni:

I would like to take a moment to thank all those alumni who attended Alumni Day Weekend at New Bolton Center on May 19th and 20th, 1995. The feedback has been overwhelmingly positive. The Cocktail Party on Friday night, hosted by Dean Alan Kelly and Mrs. Susan Kelly, was very well received and relaxing. Over 150 people attended. On Saturday, we had over 300 people attend the festivities at NBC. The most exciting aspect for me was the large number of younger alumni with their children. The pony rides and sheep herding demonstrations were a huge hit with the kids.

Special thanks to Dr. Jack Bregman, Chairman of the Alumni Day Committee, Dr. Dan Bleicher and Susan Barrett for their hard work in helping make this Alumni Day the best I can remember in the last ten years. I can only hope this is the beginning of bigger years to come.

Again, thank you to those who supported Alumni Day 1995. Perhaps those who didn’t or couldn’t make it this year will be encouraged to come next year.

Sincerely,
Stephen W. Sykun, V’86
President, V.M.A.S.
Dr. Detweiler Honored

The School of Veterinary Medicine of the University of Pennsylvania recently honored Dr. David K. Detweiler, Professor Emeritus of Physiology and Animal Biology, by presenting to him the Centennial Medal. Following is the citation:

David Kenneth Detweiler, distinguished cardiovascular physiologist, research scientist, educator, and Father of Veterinary Cardiology, your colleagues and your school salute you.

Graduating from the University of Pennsylvania School of Veterinary Medicine with academic distinction in 1942, you immediately joined the faculty, at a time when the School was at low ebb in financial support and faculty size, and early on you assumed a demanding administrative and teaching role as acting Head of Physiology and Pharmacology.

Despite teaching responsibilities that today would be considered inconsistent with any other academic activity, you found the time to initiate research in comparative cardiology, laying the groundwork for what was to become an entirely new area of specialization in veterinary medicine.

Reading widely and making contact with cardiologists in human medicine, you recognized the potential for applying principles of cardiovascular physiology to the diagnosis of heart disease in animals. Acquiring electrocardiographic and other equipment wherever you could, you soon began to spend time in the clinics, examining and treating animals with signs suggestive of heart disease; you published the first descriptions of the clinical and pathologic signs of a number of forms of heart disease in dogs and horses. In 1957, you convinced the National Institutes of Health to fund a study of the epidemiology of cardiovascular disease in dogs, the first such study ever conducted in animals. This work provided detailed descriptions of the frequency and types of heart disease in dogs and led in 1960 to a large program project grant under which you established the Comparative Cardiovascular Studies Unit. Dealing broadly with basic cardiovascular hemodynamics and electrophysiology as well as heart disease, the Cardiovascular Studies Unit, under your direction, allowed the School to attract a number of faculty members who have contributed in major ways over the years to the teaching and research missions of the School, and trained a generation of veterinary cardiologists who aided in the development of comparative cardiology in the United States and abroad.

During this extraordinary period of development, sparked by your imagination and energetic pursuit of education and research in comparative cardiology, the school established the first residency in veterinary cardiology as well as offering other traineeships in cardiovascular research. The young veterinarians trained in these programs led the way to Board Certification in Veterinary Cardiology.

Not content simply to pursue research and to train others in your own field of cardiovascular physiology and cardiology, in the 1950's you established and chaired a graduate program for the Veterinary School within Penn's Graduate School of Medicine. This widened the scope of graduate-level education within the School and provided formal training and research opportunities in the School of Veterinary Medicine and the School of Medicine for veterinarians interested in a variety of specialized fields of medical science, including cardiology, neurology, ophthalmology, and internal medicine. These programs played a major role in accelerating clinical specialization and research in comparative medicine at Penn, developments that made Penn the pioneer institution and world center for these activities. As its chairman for over 30 years, you nourished and sustained the original Graduate Group and, as the times of graduate education changed, successfully converted it to what is now called Graduate Group in Comparative Medical Sciences in the Graduate School of Arts and Sciences.

During your distinguished career, Dave Detweiler, you have received many awards, including honorary doctorates from veterinary schools in the United States and Europe, and election to the Institute of Medicine of the National Academy of Sciences. Today, your own school invites you to accept the University of Pennsylvania Veterinary School Centennial Medal. Conceived by the award committee you chaired in 1984 at the time of celebration of the School's one-hundredth year, it is a unique award in veterinary medicine, originally designed to symbolize Penn's recognition of the most outstanding leaders in veterinary medicine outside the school. This idea, to recognize others outside our own walls, is consistent with your tendency to think generously and in the widest context. Today, in bestowing the Centennial Medal, we recognize you not only as one of the most seminal figures in the history of our profession, but as one of our own — one of the most talented and productive scientists, educators, and academic statesmen in the 110-year history of this school.
Prostaglandin Synchronization Program

Dairy farmers lose millions of dollars each year because optimum calving intervals are not achieved. It is proposed that a cow should calve every twelve months for maximum profitable production of milk. But poor heat detection and low first service conception rates contribute to longer calving intervals.

Several years ago a study conducted by Dr. Charles Love at the Penn's School of Veterinary Medicine showed that these intervals could be shortened by injecting postpartum cows at regular intervals with prostaglandin. Prostaglandin, a naturally occurring hormone, shortens intervals between heat cycles.

Drs. Ferguson and Galligan of Penn's Center for Animal Health and Productivity took these findings and developed an integrated breeding management program to increase the reproductive efficiency in a dairy herd. They have shown that a program of prostaglandin injections at two week intervals initiates and synchronizes estrus in cows and shortens calving intervals. Cows respond to PG injections only when they are between days seven to 17 (diestrous) of a 21-day estrus cycle. Seventy five to 95% of diestrous cows will be in estrus three to five days following a PG injection. In the remaining cows estrus will be on day two or between days six to 10 following the injection. By random chance in a group of cycling cows 52% of cows will be diestrous on any given day. An additional 15% of cows will be proestrus, one to three days prior to estrus, 5% will be in estrus, and 29% of cows will be in metestrus (one to six days post estrus). If all cows in a random group of cows were given an injection of PG, approximately 71% of the cows will appear to be in estrus one to five days following injection. Depending on the heat detection program, various numbers of cows will be observed in estrus and inseminated following the PG injection. Cows in metestrus will not respond and will not be in estrus following the injection.

Fourteen days later, 95-98% of cows in this random group of cows will be diestrous or proestrus. A second injection of PG 14 days following the first injection will apparently induce estrus in 95-98% of cows. Cows metestrus at the first injection and cows in estrus following the first PG injection will be diestrous at the second injection. Thus, synchronization of estrus will be high following a second injection 14 days after the initial injection. Synchronization will be almost 30% higher using a 14 day rather than an 11 day schedule.

Penn's researchers recommend that farmers establish a voluntary waiting period (VWP) for the herd. They routinely recommend 50 days post calving, but this may vary, depending on the goals of the farm. As cows reach the end of VWP, assign a day of the week to give PG, for example, Friday. Cows at or past the end of VWP each are given a PG injection on this Friday. Heat detectors are placed on their back. From Monday to Friday following injection, about 70% of these cows should be in standing estrus and inseminated. Cows not inseminated are scheduled for a second PG injection 14 days later, along with new cows who have reached the end of VWP. Cows receiving a second PG injection may be inseminated on standing estrus or an appointment at 80 to 104 hours post injection. Cows are re-bred if not seen in estrus 21 days later.

Cows are checked for pregnancy 32 to 40 days postbreeding. If open, they re-enter the PG pool.

Prostaglandin synchronization provides a number of benefits: more cows are in heat at the same time, increasing expression of estrus; labor may be focused to watch for estrus at known times; increased likelihood that cows are in heat following the second injection, improving the efficiency of timed insemination; fewer days to first breeding; synchronization of pregnancy exam to always find open cows prior to 12 days postbreeding, reducing days between breedings.

Prostaglandin is approved in dairy cows to initiate and synchronize estrus. Relatively inexpensive and easy to administer, it is metabolized rapidly by the cow and has no side effects on the animal. The hormone enables the dairy farmer to control the length of the calving interval in his cows and to reduce his veterinary costs because fewer visits are needed to perform pregnancy checks in a synchronized herd.
1994 Saratoga Benefit

In December, representatives of A WEEKEND IN OLD SARATOGA presented a check in the amount of $112,000.00 for New Bolton Center to Dr. Alan Kelly, dean of the University of Pennsylvania School of Veterinary Medicine. The check represented the proceeds of the very successful benefit held in Saratoga in August. Monies will help support the building of a new wing for the Comparative Orthopedic Research Laboratory and for Sports Medicine Endowment.

A WEEKEND IN OLD SARATOGA is a non-profit organization which sponsors four days of carriage driving in Saratoga each August. The weekend consists of a country carriage drive, a drive to a polo match, and a carriage parade at the Saratoga race course. Activities culminated in "An Evening in Old Saratoga," a black-tie gala and silent auction held at the Gideon Putnam Hotel in the Saratoga Spa State Park on August 8, chaired by Mrs. John R. Landan, Jr., Chester Springs, PA. More than 290 people attended the event and enjoyed the music by the Robert Hardwick Orchestra. Prior to the gala, a champagne reception was held at the Saratoga Springs home of Miss Beverly R. Steinman, Lancaster, PA, for underwriters and patrons. This was the second year that the gala has benefited New Bolton Center, the large animal facility of the Veterinary School in Kennett Square, PA.

Chairperson of the board of A WEEKEND IN OLD SARATOGA is Mrs. Lawrence E. Enson, Jr., of Philadelphia, PA, and president of the organization is Mr. John R. Landan, Jr. of Chester Springs, PA.

Honorary chairpersons of the gala were Mrs. Harry W. Lunger, Wilmington, DE, and Mr. Dinwiddie Lampton, Jr., Prospect, KY. The silent auction was headed by Mrs. James A. Orsini, Kennett Square, and Mrs. Hector Alcaide, Arlington, VA.

Members of the Gala Committee included such local residents as Mrs. Richard I. G. Jones, Unionville, PA, and Mr. and Mrs. Michael Rapp, Downingtown, PA, Mr. Gregory L. Landis, Wayne, PA, also assisted the Gala Committee.

The honorary committee for the New Bolton Center benefit included Mr. Seymour Cohn, New York, NY, Mr. Walter M. Jeffords, Andrews Bridge, PA, Mr. and Mrs. William C. Liecke, Montchanin, DE, Mr. J. Maxwell Moran, Paoli, PA, Mr. and Mrs. Vincent B. Murphy, Far Hills, NJ, Miss Beverly Steinman, Mr. and Mrs. Judson L. Streicher, New York, NY, Mrs. Anne F. Thorington, Malvern, PA, Mrs. Jacqueline Mars Vogel, Bedminster, NJ, and Mr.

George A. Weymouth, Chadds Ford, PA, New Bolton Center's George D. Widener Hospital for Large Animals and the Field Service treat more than 25,000 animals annually.

Approximately 1,500 of these equine patients are seen through the Center of Sports Medicine, a multi-specialty group encompassing clinicians from orthopedics, surgery, cardiology, internal medicine, radiology and nuclear medicine. The contribution to the Equine Sports Medicine endowment will enable the Center to pursue programmatic research such as the investigation of the equine airway smooth muscle and the development of new ultrasound techniques to detect tendon problems.

The other recipient of the funds, the Comparative Orthopedic Research Laboratory, will use the monies for the building of the new wing of the Kline Center to house expanded laboratory facilities for comparative orthopedic research. This laboratory, under the direction of Dr. David Nunamaker, has investigated the development of bone failure and training regimens that show promise of reducing the incidence of bucked shins in young horses. Another area of investigation is the development of new techniques and surgical approaches to fracture fixation to improve the outcome.

"The School greatly appreciates the dedication and hard work by the members of A WEEKEND IN OLD SARATOGA for the outstanding event in Saratoga for New Bolton Center's benefit," said Dr. Alan Kelly, dean of the Veterinary School.

The 1995 benefit took place August 7, and again was very successful.

$445,000 from Raymond C. Firestone Charitable Trusts

The University of Pennsylvania's School of Veterinary Medicine has received $445,000 from charitable trusts established by the late industrialist Raymond C. Firestone. He was a lifelong equestrian and had supported the School's research programs for many years.

The funds are earmarked for the Dr. Loren H. Evans Research and Equipment Fund. The grant will be used for computerization upgrading in the new Scintigraphy unit at New Bolton Center and for equine research by resident faculty.

The grant to the University of Pennsylvania is one of 10 to institutions nationwide. Firestone, who died last September, was the retired chairman and chief executive officer of The Firestone Tire and Rubber Company.
Graduation

Commencement exercises for the Class of 1995 were held on May 22, 1995. The Commencement Address was given by Dr. Michael S. Garvey of the Animal Medical Center, New York, NY. Dean Alan M. Kelly presented the diplomas to 75 women and 28 men. He was assisted in the presentation and hooding ceremony by Assistant Dean Jeffrey A. Wortman, V’69, Associate Dean Charles D. Newton, and Dr. Mark E. Haskins, V’69.

Dr. Jack Bregman, V’66 and Dr. Ellis Rubin, V’62, presented diplomas to their children, Eric Michael Bregman and Deborah F. Rubin. Dr. Stephen Syken, V’86, president of the Veterinary Medical Alumni Society, presented the Class Flag to Dr. Steven Eugene Suter, V’95, class president. The Veterinarian’s Oath was administered by Dr. Joseph D. Slick, V’53, president of the Pennsylvania Veterinary Medical Association.

Class of 1995
Margaret Ann Anthony**
Nancy Lee Ashley
Archie Edwin Barkdoll III*
Bonnie Claire Berman
Dawn Norma Binder
Kenneth D. Boehm
Michelle Collette Boyden
Nancy Jo Brady
Eileen Marie Brandon
Eric Michael Bregman
Kimberley Lynn Bressee
Mary Amour Bryant
Debra Kay Buchanan
Christine Angela Caseria
Kristen Carol Casulti
Ann Margaret Caulfield
Larisa Clare Chavin***
Carole Ann Chiaravalle
Katherine Ann Chronister
Joshua Hashbrouck Clay*
Blaine Patrick Connor
Lisa Ann Corsello
Amy Louise Crawford
Jamie Eugenia DeGarmo
Lynne Terese Denyer
Lisa Jane DiPaolo-Fischer
Ellen Marie Dziedzicki
Jenifer Ann Farrell**
Eileen Frances Fisher
Derex Lewis Fried
Jean Ogden From
Lawrence David Gallagher
Michelle Diane Gels-Hawks
Lynda Carol Green
Jane Suzanne Hacker
Kathleen Marie Hall
Christopher Lee Hallihan
Gregor Zvi Havkin
Kathleen Noelle Heffner
Eileen Heldmann***
Carsten Wolf Henkel
Deborah Elaine Holler
Carmela Jo Holler
Harvey Edward Hummel
Huberle Jan Kanreman
Patricia Maria Kuhly*
Nancy Jo Krueger
Kathryn Elizabeth Kropp
Jill Overmier Kulig
Michele Joan Leso
Sheila Hogan Levie
Ann MacCormac
Lori Spencer Mann
Jeanne Louise Martinec**
Deborah Lynn Mara
Beatrice McBride
James Michael McNamara, Jr.
Todd William Meister
Mary Elizabeth Morgan
Catherine Hall Mullin
Robert Thorley Neff, Jr.**
Sharon Bridget O'Toole
Cristian Ricardo Palma
Krista Ann Price***
Award Recipients

Leonard Pearson Prize
Alexander John Anthony Travis
J. B. Lippincott Prize
Krista Ann Price
1930 Class Prize in Surgery
Eileen Heldmann
Auxiliary to the American Veterinary Medical Association Prize
Mary Amour Bryant
Auxiliary to the Pennsylvania Veterinary Medical Association Prize
Karen Marie Shuler
1956 Class Medal for Achievement in Pathology
Krista Ann Price
James Hazlett Jones Prize in Biochemistry
Eileen Heldmann
American Animal Hospital Association Award
Eileen Heldmann
Merk Awards
Small Animal Award
Krista Ann Price
Large Animal Award
Ellen Marie Dzedzicki
George M. Palmer Prize
Larisa Clare Chavis
Everingham Prize for Cardiology
Margaret Ann Anthony

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Small Animal Award
Krista Ann Price
Large Animal Award
Ellen Marie Dzedzicki
George M. Palmer Prize
Larisa Clare Chavis
Everingham Prize for Cardiology
Margaret Ann Anthony

Senior Awards Previously Announced

Anatomy Prize
Eileen Heldmann
The Mikus Prize
Joshua Hasbrouck Clay
American College of Veterinary Radiology Award
Katherine Elizabeth Rohrer
Dr. Sherbryn W. Ostrich, V’63, was installed as president of the American Veterinary Medical Association at the 132nd annual meeting in Pittsburgh, PA. He is the 12th V.M.D. to lead the organization.

Dr. Joseph D. Slick, V’53, took office as president of the Pennsylvania Veterinary Medical Association in January.

Dr. Adrian R. Morrison, professor of anatomy, has been named to the External Scientific Advisory Board of the Air Force Office of Scientific Countermeasures for Jet Lag and Sleep Deprivation. The Center is a consortium of laboratories at Harvard, Penn and Stanford. Dr. Morrison was elected president of the National Animal Interest Alliance, an organization founded by two dog breeders to support the humane use of animals to improve animal welfare and educate the public about the difference between animal welfare and animal rights.

Dr. Donald A. Aht, V’61, Robert R. Matshak Term Professor of Aquatic Animal Medicine, was elected president-elect of the International Association of Aquatic Animal Medicine at the recent annual meeting of the organization.

Dr. Robert Washaba, V’82, assistant professor of medicine, received the Lindback Award for Distinguished Teaching.

Dr. Harry Rozmirek. University veterinarian and professor of laboratory animal medicine, was installed as president of the American College of Laboratory Animal Medicine at the annual meeting of the organization in July. In October of last year, Dr. Rozmirek was the recipient of the Griffin Award, the most prestigious award given by the American Association for Laboratory Animal Science. The award is annually given to an individual for outstanding accomplishments in the improvement of the care and quality of animals used in biologic and medical research. It is named after the late Dr. Charles A. Griffin, a pioneer in the breeding and maintenance of laboratory animals.

Dr. David Knight, professor of cardiology, was honored by the American Heartworm Society and received a Special Recognition Award for "outstanding contributions to the knowledge of heartworm disease and for exceptional dedication to the American Heartworm Society." Dr. Knight is vice president of the organization and program coordinator for the society's symposia, held every three years.

Dr. Donald F. Patterson. Charlotte Newton Sheppard Professor of Medical Genetics, received the 1995 American Kennel Club Career Achievement Award in Canine Research. The award was presented at the AVMA convention in July. Dr. Patterson also was appointed to the scientific advisory board of the AKC Canine Health Foundation.

Dr. Peter Hand, V’61, professor of anatomy, organized the School's hosting of the 1995 Annual Meeting of the American Association of Veterinary Anatomists in July. Dr. Hand was recently elected president-elect of the American Society of Acupuncture.

Dr. Joseph Romatowski, V’82, received the AVMA's 1995 Practitioner Research Award at the association's annual meeting in Pittsburgh in July. Dr. Romatowski was recognized for his contribution to a study of the effectiveness of feline leukemia virus vaccination carried out collaboratively with members of the University of Washington's Department of Applied Mathematics. Dr. Romatowski has a feline practice in Seattle and is the author of a number of articles and a chapter on feline anesthesia in the book Feline Medicine and Surgery.

Dr. Carl E. Aronson, associate professor of pharmacology and toxicology, is the first recipient of the American Academy of Veterinary Pharmacology and Therapeutics Service Award.

Dr. E. Neil Moore, professor of physiology, was appointed visiting professor of medicine at Johns Hopkins University Medical School and adjunct professor of medicine at Hahnemann University. Dr. Moore received a grant from the W.W. Smith Charitable Trust for research on defibrillation. In the fall he presented a seminar at the Houston Electrophysiology Society on Ventricular Fibrillation and Defibrillation; he also presented medical grand rounds at the University of Texas Medical School, Houston, TX. Dr. Moore gave a multimedia presentation on Mechanisms of Common Arrhythmias at a symposium sponsored by the College of Physicians and Surgeons, Columbia University, held at Lake Louise, Alberta. He served on the faculty for the Cardiovascular Board Review Course for Electrophysiology, sponsored by the American College of Cardiology. He presented a talk on atrial fibrillation, sponsored by the University of Southern California and held in Hawaii.

Dr. Garry Smith, associate professor of population biology and epidemiology,
presented an invited lecture at the Pan American Conference of Veterinary Science in Acapulco, Mexico.

Dr. Gerhard Schaud, professor of parasitology, attended a World Health Organization meeting in Geneva, Switzerland, in December, as a consultant for the working group on hookworm diseases in women. He also went to New Delhi to organize a hookworm research program in rural India.

Dr. Leonard Kravitz, V'39, received the PVMA Outstanding Service Award for using his musical talents to provide entertainment at senior citizen recreation centers, churches, hospitals, nursing homes and retirement facilities. Dr. Kravitz is a clarinetist and saxophonist.

Dr. Richard Detwiler, V'48, received the 1994 PVMA Distinguished Veterinarian Award.

Dr. Wesley H. Towers, Jr., V'68, was installed president of the United States Animal Health Association. Dr. Towers received the Delmarva Poultry Industry's 1994 Medal of Achievement Award for outstanding achievement and service on behalf of Delmarva's poultry industry. Dr. Towers is the Delaware State Veterinarian.

Dr. Karen Overall, V'83, director of the behavior clinic at VHUP, recently became certified by the Animal Behavior Society as an Applied Animal Behaviorist. She is also a Delta Society Certified Evaluator of Pet Therapy. Dr. Overall presented a course at the AVMA meeting and she lectured at the World Veterinary Congress in Tokyo, Japan, on canine behavioral medicine.

Amanda Fine, V'97, gave a presenta-
tion at the New Jersey Society for Parasitology meeting in February.

Dr. Steven Melman, V'73, received the Dog Writers' Association of America Maxwell Award for Best Book in the Science and Health category for his book *Skin Diseases of Dogs and Cats: A Guide for Pet Owners and Professionals.* The book received a Certificate of Excellence from the Cat Writers Association.

Dr. Helen Acland, associate professor of pathology, was installed as president of the American College of Pathology.

Dr. Hilton J. Klein, V'80, director of laboratory animal resources, Merck Research Laboratories, was invited to serve on the board of trustees of the Scientist Center for Animal Welfare and as a board member of the organization.

Dr. Peter Ichke, V'72, received the CYCLINE® "FIDO" Award in recognition for "significant advancements in small animal medicine or surgery." Dr. Ichke is chief of service in dermatology at the veterinary medical teaching hospital, University of California, Davis.

Dr. Edwin J. Andrews, V'67, former dean of the School, was appointed senior vice president, science and technology, at Mallinckrodt Veterinary, Inc., headquartered in Mundelein, IN.

Dr. Paul W. Pratt, V'73, has been appointed executive editor in veterinary medicine by Moby-Year Book, Inc., a publisher of health sciences books and periodicals.

Dr. Roselyn J. Eisenberg, professor of microbiology, was appointed as a member of the Experimental Virology Study Section, Division of Research Grants, National Institutes of Health.

Dr. John Wolfe, V'82, associate professor of pathology, was appointed to the Medical Biochemistry Study Section, Division of Research Grants. Dr. Philip Scott, associate professor of parasitology, was appointed to the Tropical Medicine and Parasitology Study Section.

Dr. J. Clyde Johnson, V'62, has been elected president of the American Association of Equine Practitioners.

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**Promotions and Appointments**

Dr. Michaela Kristula has been appointed assistant professor of medicine and chief of the Section of Field Service at New Bolton Center. Dr. Dean Richardson has been promoted to associate professor of surgery and Dr. James Ferguson, V'81, has been promoted to associate professor of nutrition. Dr. Alan Kilde, V'65, has been promoted to professor of anesthesia and Dr. Urs Giger has been promoted to professor of medicine and medical genetics.

Dr. Virginia B. Reef has been appointed chief of the Section of Sports Medicine and Imaging at New Bolton Center. Dr. Susan Crane, V'82, has been appointed assistant professor of medicine in Field Service. Dr. Michael Atchison has been promoted to associate professor of biochemistry in Animal Biology. Dr. Mattie J. Hendrick, V'78, and Dr. Thomas J. Van Winckle, V'75, each were promoted to associate professor of pathology in pathobiology. Dr. Phillip Scott was promoted to associate professor of parasitology in pathobiology.

Dr. Erich J. Parente was appointed assistant professor of sports medicine in Clinical Studies, New Bolton Center. Dr. Paul Pitcher was appointed assistant professor of swine production medicine. Dr. Thomas Nolan was promoted to adjunct associate professor of parasitology.

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**On Line**

The School has a home page on the information highway. You can find us at the following address: http://www.vet.upenn.edu/

Parts of the page are still under construction, but every week more information is put on line. We list events and other items. Look us up!
**Tri-Color Cats**

Color in cats is a complicated subject. A calico is a white cat with patches of red and black. A tortoiseshell is black with patches of red and sometimes with white. Genetically, calicos are tortoiseshell with white. Nearly 99% of these cats are female. The gene producing this color is sex-linked. The males are generally sterile because of the genetic abnormality.

Calicos are popular, possibly because of a widespread superstition that they bring good luck. In English folklore, they are referred to as “Money Cats.” The good luck cat of Japan, the maneki neko, is a calico. If a statue of this cat faces the front door, Japanese tradition says it will bring good fortune and money.

The standards of different cat breeds have descriptions of the many colors. Tabby is a color and the classic pattern include bracelets on the legs, necklaces and frown marks on the forehead forming the letter “M.”

Color and markings are inherited features and can be an intriguing field to study.

**Pancreatitis**

Pancreatitis is inflammation of the pancreas — an organ which secretes digestive enzymes and insulin. The cause is usually unknown but contributing factors may include a high-fat diet, infection and some drugs.

The clinical signs are nonspecific and common to many other gastrointestinal disorders. Depression, vomiting, diarrhea and abdominal pain may occur. Leukocytosis (increased white blood cell count) is a frequent laboratory finding. There is no ideal test and diagnosis usually tentative. Middle to old-aged dogs are most often affected.

Treatment includes temporarily withholding food to place the pancreas at physiologic rest. Fluid therapy is used to replace lost fluids and maintain the animal. Mild cases improve in one or two days; serious cases may require several days of hospitalization. Oral feeding may start after there has been no vomiting. The diet should be high in carbohydrates (rice, pasta, potatoes) and low in fat. Antibiotics may be indicated.

In some dogs, pancreatic insufficiency may develop. These dogs may lose weight in spite of excessive food consumption. Supplementing the diet with pancreatic enzymes usually helps these cases. Lifelong treatment is necessary.

Your veterinarian should be consulted about the treatment and management of gastrointestinal problems. Many different conditions have the same clinical signs but the treatments may differ. An important rule is that fluid replacement is indicated when there is severe diarrhea and vomiting. Don’t delay seeking professional help.

**Pure-Bred vs. Mixed Breed**

Many factors are involved in selecting a dog as a companion. Whether or not a purebred is selected is not as important as knowing what to expect from a puppy.

The big advantage of a purebred is predictability. The characteristics of a registered breed have been established over many generations. Size at maturity, coat characteristics and temperament will help determine if the dog selected will fit your lifestyle. If a dog is obtained from a breeder, you should have an opportunity to see adults and learn what is required for proper care, such as grooming and exercise.

There are many good mixed-breed pets and some feel that adopting a dog from a shelter is one way to help with the over-population problem. The blame should be placed on the irresponsible owners who do not provide proper care and training and allow unwanted pregnancies because their animals are not neutered. Unfortunately, many people decide they do not want a dog after all and abandon it. A dog should be a part of the family for at least 10 years.

If your interest is dog shows and possible breeding, you must start with a purebred. The American Kennel Club now has a Limited Registration Program for purebreds that may not meet the breed’s standard in all respects. These dogs are considered unsuitable for breeding (any offspring could not be registered) and are not eligible for entry at championship conformation shows. To the untrained eye, they can look like show dogs and they are wonderful pets and companions.

**Jack Russell Terriers**

Jack Russell Terriers, called Parson Jack Russell Terriers in England, are a small breed, very much like a small, short-legged Fox Terrier. The breed is recognized by the Kennel Club (England) and the United Kennel Club (United States), but not by the American Kennel Club. The dog was reduced in size to develop a hunting terrier which would go to ground and bolt the fox. They are excellent family pets and readily adapt to house and apartment life.

The dogs are smooth, rough or broken-coated. All are predominantly white with tan, brown or black markings. The docked tail, about four inches long, provides a good hand-hold. They are active and alert with a happy, fearless disposition. Their height ranges from 10 to 15 inches and they weigh around 15 pounds.

There is a U. S. Registry for the breed.
but conformation showing is not encouraged — the parent club wants to focus on working qualities.

The breed takes its name from Parson John (Jack) Russell, born in England in 1795. He was one of the founders of England’s Kennel Club in 1873 and judged Fox Terriers in 1874 at the first Kennel Club show in London. He did not exhibit his own dogs. It is said that he believed the true measure of any terrier was his degree of gameiness and it annoyed him that many owners who showed their dogs considered them too valuable to engage in the task for which they were originally bred.

**Microchips**

The American Kennel Club has established the AKC Companion Animal Recovery Program with a 24-hour phone and fax line to unite lost pets with their owners. An essential part of this program is a central database that will record, for a fee of $12.50, the permanent identification of a pet. Tattoos or microchips from any manufacturer are considered permanent identification. Collars and tags are not. The registry is open to any pet, and fax line to unite lost pets with their owners. An essential part of this program is a central database that will record, for a fee of $12.50, the permanent identification of a pet. Tattoos or microchips from any manufacturer are considered permanent identification. Collars and tags are not. The registry is open to any pet, and fax line to unite lost pets with their owners.

Enrollment forms may be requested from AKC Companion Animal Recovery, 5580 Centerview Drive, Suite 250, Raleigh, NC 27606-3394.

A microchip is a tiny transponder with a unique number that is implanted by injection under the skin in the shoulder area of the animal. The chip is read with a scanner. Unfortunately, there is no scanner that reads all microchip brands, though scanners will indicate the presence of a chip, so a different scanner can be tried. The AKC and others are working toward a universal scanner.

Microchips are implanted by veterinarians. Your veterinarian may use the AKC-recommended chip or another one. No matter which one is used, to recover a lost pet, the permanent identification must be registered. At this point, it appears that the AKC Companion Animal Recovery Program is the only national registry for all types of permanent identification. The phone number to report a lost or found pet is 800-252-7894 and the fax number is 919-233-1290.

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**HUP and VHUP surgeons use new technique to help dog**

Oliver’s lungs had a slow leak. A tiny hole in one of the lobes let air escape into his chest cavity, normally a vacuum, causing a spontaneous pneumothorax, a serious medical problem. Oliver couldn’t breathe properly because the air in his chest prevented his lungs from expanding fully.

The 12-year-old Siberian husky was admitted to VHUP for treatment. Here he made veterinary surgical history by becoming the first clinical canine patient treated by thoracoscopic and thoracoscopic surgery. His owner offered VHUP surgeons the use of special instruments and Dr. Larry R. Kaiser, a thoracic surgeon at HUP who developed the instruments and the procedure, agreed to come to VHUP to help Oliver.

“Normally we would have opened his chest sternally,” explained Dr. Joan Hendricks. “This is very painful and the recovery is lengthy. We also could have attempted to inject some irritants, hoping that scarring on the exterior of the lung lobe would close the leak. Both are pretty drastic steps. So a thoracoscopy looked very promising. We accepted the offer by Dr. Kaiser and the owner worked out the details for the joint effort by VHUP and HUP surgeons to help the dog and spare him a painful, lengthy recovery.”

Oliver’s owner works for a medical instrument company where the Kaiser-Pilling™ No Cannula Thoracoscopy Instruments are manufactured. Invented by and named after Dr. Kaiser, these instruments permit a surgeon to perform procedures within the closed chest cavity. They are used in conjunction with a thoracoscope equipped with a light source and camera chip. The instruments are inserted into the chest through a relatively small incision.

“These instruments have a special configuration to allow their usage in the chest,” said Dr. Hendricks. “They are longer and curved in a special way and include forceps, hemostats, spatulas, knives, suction tubes, and a stapling device as well as other items. It was incredible: we saw the interior of Oliver’s chest, projected onto the TV screen and then watched as the lung lobe was gently manipulated by Dr. Kaiser. The hole was found and closed.”

Oliver was up and around shortly after he woke up from anesthesia and went home a few days later. “This procedure changed a major operation into a relatively minor procedure,” said Dr. Hendricks. “This is so promising, particularly for older patients. It could replace the thoracotomy when we need to perform a chest exploratory. We are quite excited and are trying to figure out a way to acquire the thoracoscope and the instruments so we can use the technique here. We are lucky in that Dr. Kaiser and his colleagues are just down the street, so training our surgeons will not be a big problem as there is a great cooperation between the two hospitals and schools.”

The technique has been used successfully in human patients in Europe for a number of years and Dr. Kaiser is a leading proponent of the procedure. It is less invasive and the recovery time is much shorter than for the traditional methods of open chest surgery.
Veterinary Teaching Awards

The Veterinary Medical Student Government Teaching Awards were presented at a dinner dance on April 1, 1995 at the University Museum. Each year students honor special teachers, not only clinical and classroom instructors but also interns, residents and technicians.

The Classes of 1995 and 1997 selected Dr. Robert Washabau, assistant professor of medicine, as their award recipient. Dr. Washabau also received the Norden Distinguished Teacher Award.

Dr. David Holt, assistant professor of surgery, was honored by the Class of 1996, and the Class of 1998 presented its award to Dr. Peter Dodson, professor of anatomy.

The Class of 1995 honored two technicians, Donna Sisak, anesthesia at VHUP, and Eileen Rule, nursing at NBC. Their Intern Award went to Dr. Tina Wahlstrom, and Dr. Steve Giguere received the Resident's Award.

Dr. Giguere was also the recipient of the William Boucher Award for Outstanding Teaching at New Bolton Center by a House Officer. The Jules and Lucy Silver Animal Bedside Manner Award was presented to Dr. Rachel Esrig, an intern.

Dr. Charles Pugh, assistant professor of radiology, received the Residents' Award for Outstanding Teaching by a Faculty Member. The Interns' Mentor Award was presented to Dr. Dorothy Brown, resident in surgery.

Justin Soli, Krista Price and Robert Neff, all members of the Class of 1995, received the Senior Student Patient Care Award, presented by the nursing staff.

Harcum nursing students honored technicians Martha Stevens at VHUP and Colleen Klein at NBC with their Nurse Teaching Awards.
Pet Memorial Donors for Fiscal Year 1995

Instituted in 1982, the Pet Memorial Program provides a thoughtful vehicle for practitioners to express their sympathy for the loss of a client's pet. The program helps strengthen the bond between veterinarians and their clients, while generating important unrestricted dollars for the School.

One family expressed their thanks and said, "It's nice to know that we are not the only ones who miss him." Another owner wrote, "Your kindness will always be in my heart; everything you have done for Tipster and me." And, as this couple confided, "we have always wanted to tell you how hard it was to put Blackie to sleep. But you made a very painful situation much easier by your caring and sensitivity."

We thank the 86 veterinarians and hospitals listed below who participated in the program in 1994-1995. The contributions, totaling close to $23,865, enhance teaching and patient care programs at the Veterinary Hospital of the University of Pennsylvania and the George D. Widener Hospital for Large Animals. If you are interested in participating in the Pet Memorial Program, please contact the Development Office at (215) 898-4234.

Frederic K. Buff, V.M.D.
Michelle C. Barlus, V.M.D.
Albert M. Beck, D.V.M.
Michele B. Belisle, V.M.D.
Robert L. Bergman, V.M.D.
Frank A. Borzio, Jr., V.M.D.
Alvin J. Brown, V.M.D.
Charles E. Brown, V.M.D.
John P. Burlein, V.M.D.
John S. Bush, V.M.D.
Doris A. Cappiello, V.M.D.
Thomas Carreras, D.V.M.
Kevin P. Coogan, V.M.D.
William Corbett, V.M.D.
Henry L. Cruff, Jr., V.M.D.
Deborah Cronin, V.M.D.
Robert P. Cusanno, V.M.D.
Paul W. Donovan, V.M.D.
Beth V. Dronson, V.M.D.
Robert C. D'Urso, V.M.D.
Diane R. Eigner, V.M.D.
William G. Farrell, V.M.D.
Jeffrey Feinman, V.M.D.
Paul Fenster, V.M.D.
Fred Fernich, V.M.D.
Juan L. Ferrer Perez, V.M.D.
Caryn Finnegan, V.M.D.
Susan Fisher, V.M.D.
Sherwood Gloth, V.M.D.
Mark B. Guise, V.M.D.
M. B. Gulick, V.M.D.
George L. Hantenstein IV, V.M.D.
Betsy K. Kennon, V.M.D.
James A. Kepner, V.M.D.
Denise Kessler, D.V.M.
Cynthia Kosack, V.M.D.
Sharon P. Lachctte, V.M.D.
Kay Steinmarc Larkin, V.M.D.
Theodore J. Leit, V.M.D.
Jennifer Lewis, V.M.D.
George Lewis, V.M.D.
Lawrence J. Linnetz, V.M.D.
Ann Wayne Lucas, V.M.D.
Robert F. Martin, V.M.D.
Carolyn M. McDaniell, V.M.D.
James McFarland, V.M.D.
Elizabeth R. McKinstry, V.M.D.
Jonathan E. Meincke, V.M.D.
Patricia A. Morgan, V.M.D.
Michael K. Moss, V.M.D.
Joseph A. Ncbydoski, V.M.D.
Kerry Jo Nebzydoski, V.M.D.
Barry S. Newuman, V.M.D.
Fredric D. Nisenholz, V.M.D.
Michael P. Rainur, V.M.D.
Arthur Richards, Jr., V.M.D.
Barbara Rogolsky, V.M.D.
Dan Rosenberg, V.M.D.
Charles F. Ruggiero, V.M.D.
James R. Rummel, V.M.D.
Farid C. Salch, V.M.D.
Ira H. Silver, V.M.D.
Raymond W. Stock, V.M.D.
Lisa Susiak-Brown, V.M.D.
Cynthia J. Swingle, V.M.D.
Brett A. Sylvester, V.M.D.
William B. Tarpley III, V.M.D.
Gregory M. Thibodeau, V.M.D.
R. C. Troyes, V.M.D.
Mark D. Tyson, V.M.D.
Boyd C. Wagner, B.V.M.S.
Joan Yarnall, V.M.D.
Burn Mill Veterinary Center
Northern Tier Animal Hospital
Wilmington Animal Hospital
Animal Assisted Therapy and Education Certificate Program

Harcum College, The Duveen Foundation and the University of Pennsylvania School of Veterinary Medicine

FIRST SEMINAR — "People in Place" — How contacts with companion animals and nature maintain human health and emotional balance. The 12 three hour sessions start September 19, 1995.

This seminar will review the recent scientific evidence which confirms the ancient wisdom that our living environment — our pets, gardens, parks, rural landscapes, wild and domestic animals — have important positive effects on health and well-being.

The seminar is the first part of a certificate program in Animal Assisted Therapy and Education, but may be taken independently. It will be taught by Dr. Aaron Katcher and guest lecturers. A second seminar "Nurturing Healing: Shaping Therapeutic Encounters between People, Animals and Nature" will be taught in the 1996 spring semester. The certificate program is designed to meet the Delta Society's standards for accreditation and will include, in addition to the two term seminars, the Delta Society's Pet Partners home study course and seminar on temperament testing as well as supervised clinical experience. It is intended for health care professionals and open to others with permission. For a complete description of the certificate program and registration materials, please contact Continuing Education at Harcum College, Bryn Mawr, PA 19010, (610) 526-6100.

Brandywine Valley Driving Club Show

Horse & Pony Show at Devon

The Brandywine Valley Driving Club, Inc. held an Open Pleasure Driving Show in June. Portions of the proceeds were donated to New Bolton Center. Shown here is Mark Schofield, groom, holding one of the winning competitors. (photo by Lisa Barbone)

Last summer the Horse and Pony Show at Devon, organized by Mrs. Dolores Swann, was held as a benefit for the School. Shown here are some young competitors getting ready for their classes.

Donation to Microscope Program

The University of Pennsylvania Women's Club has made a donation to provide new microscopes for students in financial need.

This is the fifth award to the Boucher microscope program given in honor of the late Dr. William Boucher and Mrs. William Boucher.

Scholarships

The Iris M. McGee Scholarship was awarded to Kelly Georgeau, V'96.

Christine Lundy, V'96, received the Israel and Anna Live Scholarship. The General Federation of Women's Clubs of Massachusetts has awarded Pandora Davis, V'99, a Memorial Education Fellowship.


The following students were recognized by The American Kennel Club with a scholarship: Emily Elliot, V'97, Ernest Weber, V'97, Stacey Conarello, V'97, Caroline Garzotto, V'96, and Christine Harshbarger, V'97. The Amlan Foundation Scholarship was given to Debra Kriftcher, V'96. The Lloyd's Underwriters, Lloyd's Brokers and Kentucky Agents Joint Equine Research and Education Program Committee have granted an award to David T. Runk, V'96.

Three students, Michael Yarnall, V'96, Andrea Straka, V'97, and Kelly Georgeau (McCarrab), V'96, received the Berks County Kennel Club Scholarship, and the Burlington County Kennel Club Scholarship went to Karen Bullock, V'96. The Alonzo Edmiston, Jr. Book Fund was presented to Valerie Heartsfield, V'96, Mary Jane Potter, V'97 and Julianne Grady, V'96 received William Goldman Foundation Scholarships.

The following were awarded a scholarship by The New Jersey Veterinary Education Foundation: Donald Force, V'96, Karen Bullock, V'96, Catherine Racek, V'96, while the Pennsylvania Veterinary Foundation awarded a scholarship to Guy Hammond, V'96 and John Ruffing, V'96.

Four senior students received the Dr. E. Salsbury Scholarship: Ruth Shedwick, V'96, Daryl Denevich, V'96, Bridgette Jablonsky, V'96, and Guy Hammond, V'96. The Union County Kennel Club Scholarship went to Brian Karolewski, V'97 and the Westminster Kennel Foundation awarded Brenda Klaauken, V'96 with a scholarship. The Clifford E. Wright, Jr. Scholarship was given to David Bentzel, V'96. The University of Pennsylvania Women's Club Scholarship for the purchase of microscopes was donated to Kerri.
Dr. Ginnie Lieblein Memorial Scholarship Endowment Fund Created

The University of Pennsylvania School of Veterinary Medicine recently received a Memorial Scholarship Endowment Fund in the name of Dr. Ginnie Lieblein, V’78 from her husband, Mr. Walter C. Wells. This fund is to be awarded to one or two students in the senior year of Veterinary Medicine. The following veterinarians, hospitals, associations, and other individuals have also made a contribution to the Doctor Ginnie Lieblein Memorial Scholarship Endowment Fund:

Audubon Veterinary Association
Isabel T. Bedrosian
Dr. Jill Beech
Berkshire Veterinary Hospital
Nancy M. Bromberg, V.M.D.
Brooklyn Veterinary Hospital
Patricia A. Brown, V.M.D. and Randall E. Brown
Burnt Mill Veterinary Center
L. Clarke Cushing, V.M.D., PA
Dr. Richard O. Davies and Inge E. Davies
Michael A. Eckhaus, V.M.D.
Robert W. Fox, V.M.D.
John H. Heidgerd, V.M.D. and Jean P. Heidgerd

Mattie J. Hendrick, V.M.D.
Sarah Drabing Hill, V.M.D.
Donald E. Hoening, V.M.D. and Lynn K. Koenig
Dr. Lin Klein
Mark C. Klingensmith, V.M.D.
Ms. Catherine C. Larmore
Katherine H. Maxwell
Joan E. Miller
Jane Morello, V.M.D.
Susan D. Morgan, V.M.D.
The Patt Veterinary Hospital
Mrs. Virginia C. Peters
Charles W. Raker, V.M.D.
Charles F. Rutk, D.V.M.
Sara E. Rice, V.M.D.
Francis Lynn Sanderson, V.M.D. and Paula D. Sanderson
James E. Simpson, Jr., V.M.D.
Richard Smitherman, V.M.D. and Mrs. Angela E. Smitherman
Thomas G. Walzond, V.M.D.
Ricarda Kelly-Walzond, V.M.D.
West Mountain Animal Hospital, Inc.
Michael Woltz, V.M.D.
Karen M. Young, V.M.D., Ph.D. and Albee Messing, V.M.D., Ph.D.

Planned Giving Programs for the School of Veterinary Medicine

Over the years, the School of Veterinary Medicine has received generous support from donors who have made planned gifts through the Planned Giving Programs of the University of Pennsylvania.

Planned gifts are flexible: tax-advantaged arrangements that enable donors to make substantial gifts in ways that complement their personal financial planning. They can be designed to generate life-long income, obtain significant income tax deductions and reduce or eliminate estate taxes. Planned gifts can also be a means of converting low-yielding assets into a higher income stream at a reduced capital gains cost.

The Office of Planned Giving Programs of the University of Pennsylvania offers a variety of life income arrangements including: Charitable Gift Annuities, Deferred Gift Annuities, Pooled Income Funds, Charitable Remainder Trusts and Charitable Lead Trusts. The Office of Planned Giving Programs can also help donors tailor bequests and structure gifts of life insurance and other assets for the benefit of the School of Veterinary Medicine.

Participation in any of Penn’s Planned Giving Programs also bestows the benefits of membership in The Charles Custis Harrison Society. Those benefits include: annual luncheons, seminars and the University’s planned giving newsletter, Partners in Penn’s Future.

The Office of Planned Giving Programs is always willing to meet with donors and their financial advisors to design the most advantageous ways of giving to the School of Veterinary Medicine. For more information, please contact John Foster, Deborah Layton or Tom Hofstetter of the Office of Planned Giving Programs at (800)-223-8236.
Special Gifts

The following made a donation to the Friends of the Small Animal Hospital of the University of Pennsylvania in honor or memory of their devoted pets:
A gift by Ms. Susan Clark
A gift by Ms. Tina Gold
A gift by Ms. Lee Anna Rutledge
A gift by Ms. Evelyn Yost
A gift in memory of AMHER by Mrs. Mary Roberts Robinson
A gift in memory of COREY by Mr. and Mrs. Dennis Fleming
A gift in memory of DRAC H by Mr. and Mrs. Alfred Inglis
A gift in memory of HONEY BEAR by Ms. Jeanne Hope
A gift in memory of HUGGIE by Ms. Joan Kaufman
A gift in memory of HUGGIE by Mr. and Mrs. Stanley Richmond
A gift in memory of JASON by Hilary Ingalls and Ken Geller
A gift in memory of MAX by buzz and Charlotte Stephany
A gift in memory of "P.J." by Mr. and Mrs. Gary E. Chevakiier

The following are gifts to the Friends of New Bolton Center in memory or honor of a special animal:
A gift in memory of ANNE by Mrs. Nancy Fiorman
A gift in memory of BARON and HARBOUR TOWN by Lockwood Avenue Animal Clinic
A gift in memory of BLACK JACK the goat by Ms. Donna M. Oppen
A gift in memory of BLUE BAYOU by Susie Almon-Matangos and Bill Matangos
A gift in memory of JUMPER to the Tamworth Fund from Woodville, in care of Ms. Janet Elliot
A gift in memory of JOKI by Ms. Elizabeth W. Glasscock
A gift in memory of TOO HOT FOR YOU a.k.a. CAJ1 by Mr. and Mrs. Robert Wilker
A gift in memory of WOODSTOCK by Ms. Barbara Bauer

A bequest from the estate of Esther Lovett Vail was made to the School of Veterinary Medicine in memory of her husband Edward L. Vail, V'36

Zeneca Inc. has awarded a grant of $5,000 to The Wildlife Service at the School of Veterinary Medicine to fund the purchase of an incubator, microwave oven, heating pads, and lamps to improve the survival rate of critically ill wildlife.

The following have made gifts to the Friends of New Bolton Center in honor or memory of the person listed:
A gift in honor of Dr. Mark Allam by Mr. Matthew G. Fox
A gift in memory of Mr. and Mrs. Dean Bedford by Mr. and Mrs. John H. Livingston
A gift in memory of Phyllis Christmann by Ms. Bonnie Toth
A gift in memory of Philip B. Hofmann by Ms. Judy Richter
A gift in honor of Lauren P. Kelley by Mr. Scott Kelley
A gift in honor of Dr. M. Lynn Meyers by Ms. Margie Fierman
A gift in memory of Mr. H. Willier Murphy by Ms. Katherine M. Watson
A gift in honor of Dr. Dean Richardson by Ms. Susan Rotner
A gift in memory of Drs. Ray and Corinne Sweeney by Neal C. Ralston, V.M.D.
A gift in memory of Mr. Chuck Timo by Ms. Marlene Prosky
A gift in memory of Mr. Thaddeus R. Trout by Mr. and Mrs. John J. Buikholder
A gift in honor of Dr. Eric Tulleners by Mr. and Mrs. Samuel H. Rogers of White Oaks

The donors to the Dr. William B. Boucher Fund are as follows:
Ralph W. and Anna Lee Barrow
Ms. Margaret E. Beck
Sara E. Childers
Choir of the Presbyterian Church of Kennett Square
Robert and Margery Davis
Mr. and Mrs. Robert M. Dunn
Mr. and Mrs. Hamilton D. Eaton
Dr. and Mrs. Frank Ferrigno
Howard E. and Elizabeth A. Fisher

Mr. and Mrs. Wallace M. Hunt
Ms. Catherine C. Larmore
Ms. Eileen Love and Ms. Sue Barrett
Dr. Liam P. O'Leary
Mr. Willa Passmore
Mr. and Mrs. Arthur C. Ritter
Dr. Harry K. and Norine G. Royer
Ms. Sara G. Sperling
Mr. and Mrs. Wallace G. Taylor

Listed below are individuals who made gifts to the Friends of New Bolton Center in memory of Mr. Otis R. Dodson:
Best Western Country Oven
Mr. and Mrs. John A. Bogar
Ms. Betty A. Hardesty
Mr. and Mrs. John W. Knauber
Mr. Willard G. Morrow
Pennsylvania National Horse Show
John W. Purcell, Esq.
Runnymede Stables

The following individuals contributed to the Tamworth Fund in memory of Mrs. Edith Joan Elser:
Mr. and Mrs. Jack Bass, Jr.
Ms. Susan T. Chulftield-Taylor
Mr. and Mrs. Charles D. Cowles
Mr. George Haas
Mr. and Mrs. E. Edward Houghton
Mr. Edgar R. Owen
Dr. Monica Reynolds
Mr. Edgar Scott, Jr.
Mr. and Mrs. Richard Thompson
Unionville Equine Association, P.C.
Ms. Katherine M. Watson

Contributors to the Lawrence E. Ensor, Jr. Memorial Fund are:
The British Bloodstock Agency, Plc.
Mr. Elliott Burch
Caper Hill Farm, Inc.
Ms. Christine C. Connelly
Mr. and Mrs. Richard P. Cunningham
Mr. and Mrs. John T. Dee
Suzanne and Metin Enderi
N. B. Fairclough & Son, Inc.
Mr. and Mrs. Bertram R. Firestone
Foxfield Thoroughbreds, Inc.
Mr. and Mrs. John A. Gayler
Griggs, O'Neal and Kidder P.S.C.
Equine Veterinary Associates
Penn Annual Conference

Many thanks to the 650 veterinarians, the majority of whom are alumni, who attended the 1995 Penn Annual Conference on January 25 and 26 at the Adam's Mark Hotel. We are also grateful to the 80 exhibitors who provided support for the Conference. The 1996 Conference will be held on January 24 and 25.

Dr. Charles Newton presented certificates to patrons and sponsors of the event.

Mrs. Patricia J. Hall
Jerry Bailey Training Stable
Jonabell Farm, Inc.
Ms. Catherine C. Larmore and
Mr. Thomas H. Beddall
Ms. Jean G. Lee
Ms. Mildred Levin
Mr. and Mrs. Brian A. Maloney
Maryland Horse Breeders Association, Inc.
Adrian Maxwell
Mrs. J. Maxwell Moran
Ms. Caroline Moran
Nicholas P. Zito Racing Stables, Inc.
Mr. and Mrs. Kenneth Noe, Jr.
The New York Racing Association, Inc.
Dr. and Mrs. James A. Orsini
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Mr. and Mrs. Frank Stark and
H. Scott and Beth Lucken
Ms. A. Mina Von Voss
Walmac International Stud, Inc.
Mrs. C. V. Whitney
Ms. Margaret C. Woolums

The following are gifts to the Friends of New Bolton Center in memory of Mr. Melvin L. Pinera:
Mr. and Mrs. Joseph A. Bisdale
Mr. and Mrs. Frank Ehrnsperger
Mr. and Mrs. Anthony D. Guess
Mr. and Mrs. Arline Lister Green
Mr. and Mrs. Patricia Hooven
Penny and Rick Kunze
Mr. and Mrs. Harry J. Lister
Lucky Extra's Bowling League
Mrs. Elizabeth J. Pinera
Ms. Susan Pinera

Gifts in memory of Dr. Albert Wagner, Jr. were made by:
Bucks-Montgomery Veterinary Medical Association
M. Josephine Deubler, V.M.D.
Doris Sell Emerson, V.M.D.
Mr. Samuel F. Grauer
Mr. David Hopkins
Ms. Marjorie J. Kinsley
Thomas S. Kube, D.V.M

Corporate matching gifts, an increasingly important source of revenue for the Friends of New Bolton Center, were provided in Fiscal Year 1995 by Air Products, Johnson & Johnson, and Merck & Company.
Calendar

October 15, Back in the Park, a walk-a-thon with canine companions in Pennypack Park, Philadelphia, to raise funds for the American Cancer Society with a portion of the proceeds donated to the School for cancer research. For more information call 215-898-1475.

November 5, Pennsylvania Hunt Cup Races, Unionville, PA, to benefit New Bolton Center. For additional information call 610-869-0557.

November 9 and 10, 1995, Equine Breeders' Short Course on the stallion and mare for horse breeders and farm managers, New Bolton Center. For additional information call 610-444-5800, ext. 2222.


January 27, 1996, Canine Symposium for dog breeders and owners, VHUP.

March 30, 1996, Feline Symposium for cat breeders and owners, VHUP.

University of Pennsylvania
School of Veterinary Medicine
3800 Spruce Street
Philadelphia, PA 19104-6008

Address correction requested