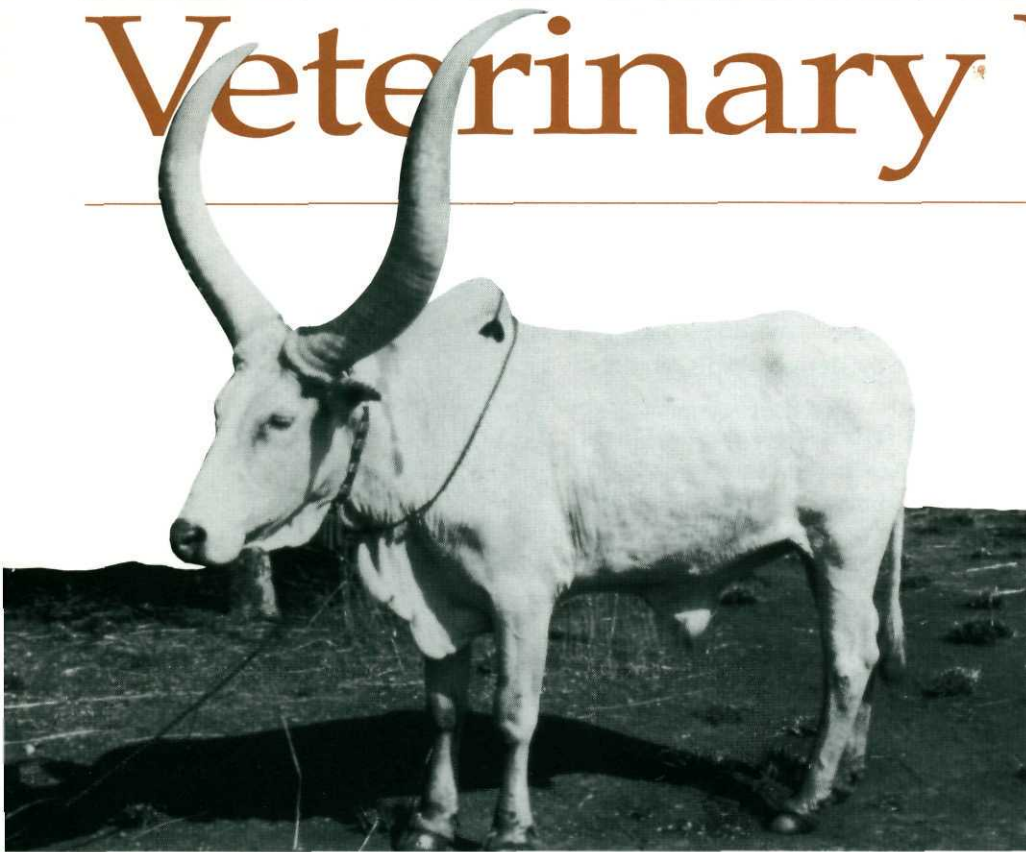


Veterinary World

FALL 1995



Last year, 1.4 million Sudanese cattle were vaccinated against rinderpest, the most devastating viral disease of cattle in Africa. The UNICEF-supported work is being conducted by Tufts under the auspices of the Pan-African Rinderpest Campaign (PARC), an ongoing multi-national effort that seeks to vaccinate more than 140 million cattle.

Sudan project links animal and human health care

GLOBAL VETERINARIANS

In southern Sudan, where the Nile River meanders across the Plains of Juba creating a vast swampland, the Dinka and Nuer people are sustained by their cattle.

For more than three decades, a brutal civil war has divided Africa's largest nation, pitting the inhabitants of arid, northern Sudan who are of Arabic descent against those of southern Sudan, who are of African tribal ancestry. In the south, air attacks, land-mined roads and guerilla fighting as well as famine, flooding and disease threaten everyday life for the pastoralists and their livestock.

Against this backdrop of natural and man-made brutality, Tufts School of Veterinary Medicine holds a key role in an innovative project that links animal and human health care as part of UNICEF's Operation Lifeline Sudan-Southern Sector relief program.

Working within a culture that can appear to grant a higher status to cattle than to women and children, UNICEF had been challenged to improve participation by the Sudanese in its children's immunization clinics. "The health and nutrition of the people is closely related to the well-being of their livestock, and the herders put a higher priority

(See SUDAN, page 10)

Jean Mayer Administration Building dedicated

A multi-million dollar gift from an anonymous donor has enabled Tufts to name the Jean Mayer Administration Building at the School of Veterinary Medicine in honor of Tufts' former president and chancellor, who died in 1993. The May 21 dedication, held in conjunction with the school's 13th commencement, celebrated Mayer's pivotal role in the establishment of New England's only school of veterinary medicine in 1979. Below from left, Dean Franklin M. Loew assists Elizabeth van Huysen Mayer, Mayer's widow, as she unveils the Jean Mayer Administration Building sign. With Mrs. Mayer are her grandchildren, Alexander Deford and Eve Mayer; Dr. Henry L. Foster, Tufts trustee emeritus and chair of the board of overseers for veterinary medicine; and her son, Andre Mayer. For more on commencement, turn to page 6.



Photo by Robert Weisman

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DEAN

by Dr. Franklin M. Loew

THE TIME IS RIGHT TO TAKE UP NEW WORK

After 13 and one-half years at Tufts School of Veterinary Medicine, I have decided to heed the call of Cornell University, my *alma mater*, to assume the deanship of its century-old college of veterinary medicine in September.

This will be a bittersweet move for me, but I know that Tufts is strong now and that the time for a dean to leave is when his or her school is strong. Change in administrative positions is necessary, both for the school and for administrators. Even Franklin D. Roosevelt, our longest-serving president, held office "only" for about 12 years.

I have many memories of my time at Tufts, and most are pleasant ones. In the early days, our future was not the bright one it is today. Doubters were everywhere, and critics were harsh. When asked how I slept at night, I replied, "Like a baby. Sleep for an hour, cry for an hour, sleep for an hour...!"

But with the combined determination of former Tufts President Jean Mayer and the Tufts Board of Trustees and the magnificent generosity of Dr. and Mrs. Henry L. Foster, Miss Amelia Peabody, our superb Board of Overseers and so very many believers in what we do here, the school's reputation grew.

Today, our nearly 800 graduates are helping animals throughout the nation and in several countries overseas. Our 70 or so faculty members, 250 or so technical and clerical staff and more than 300 students, residents and interns all consistently distinguish themselves. The buildings, grounds, hospitals, clinics, laboratories, library and equipment are superb. Truly, we have the dandiest little veterinary school anywhere!

When William Osler decided to leave the Johns Hopkins University Medical School in 1904 after 15 years on the original faculty, he was 55, my age now. Here is what Osler said then:

"... After years of hard work, at the very time when a man's energies begin to flag, and when he feels the need of more leisure, the conditions and surroundings that have made him what he is and that have molded his character and abilities into something useful in the community — these very circumstances ensure an ever-increasing demand upon them; and when the call ... comes, which in one form or another is heard by all of us, and which grows louder as we grow older, the call may come like the summons to Elijah...to take up new work..."

Finally, I need to thank my colleagues on the faculty and in the administration, especially Executive Associate Dean Martha Pokras (who alone knows the depths of despair and the soaring moments of elation that accompanied us during the building of this school), Provost and Senior Vice President Sol Gittleman (whose unfailing support and scholarly interest have been crucial to us), Senior Vice President Thomas W. Murnane (who with Jean Mayer laid the groundwork for the school) and Executive Vice President Steven Manos (who ventured with us financially).

Farewell and good luck to you all. If you would seek to remember me, do so by continuing your support of this superb school and the university of which it is a part.

• • •

We were all saddened by the untimely death in May of David McGrath Jr., long-time member of the school's Board of Overseers and father of Dr. David McGrath III, a 1986 graduate of the veterinary school. David's interest, support and helpful observations, along with his generosity, were invaluable during the past decade. We all miss him.

Long-time faculty member named interim dean



Dr. M. Sawkat Anwer, who has been with Tufts since 1983, was appointed interim dean of Tufts School of Veterinary Medicine, effective Aug. 1.

Dr. M. Sawkat Anwer
Photo by Brian DelGiudice

He succeeds Dr. Franklin M. Loew, who becomes dean of the New York College of Veterinary Medicine at Cornell University, his *alma mater*, Sept. 1.

Anwer is a professor in the veterinary school's Department of Medicine, where he is head of the section of experimental medicine, and in the Department of Pharmacology and Experimental Therapeutics. For the last two years, he also has been assistant dean for research.

"Dr. Anwer is a fine teacher, a successful investigator and an active, respected member of our community," said Sol Gittleman, senior vice presi-

(See UNIVERSITY, page 8)

TUFTS UNIVERSITY Veterinary World

Fall 1995

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Natural Lessons

YOUNG AND OLD FIND SOLACE IN THE ANIMAL KINGDOM

On the streets of Boston's Roxbury neighborhood, young people shy away from dogs, fearing attack by animals that have been trained as weapons of urban violence. At the same time, many of Roxbury's elderly residents long for the companionship that a dog could add to their often-solitary lives.

As Boston Schweitzer Urban Fellows, two veterinary students at Tufts University will be working with organizations in Boston neighborhoods and with individuals who experience widely disparate relationships with animals — Leonard Jewell with young members of Gang Peace in Roxbury and Charles Eastin with senior citizens and Eldercorps in Dorchester.

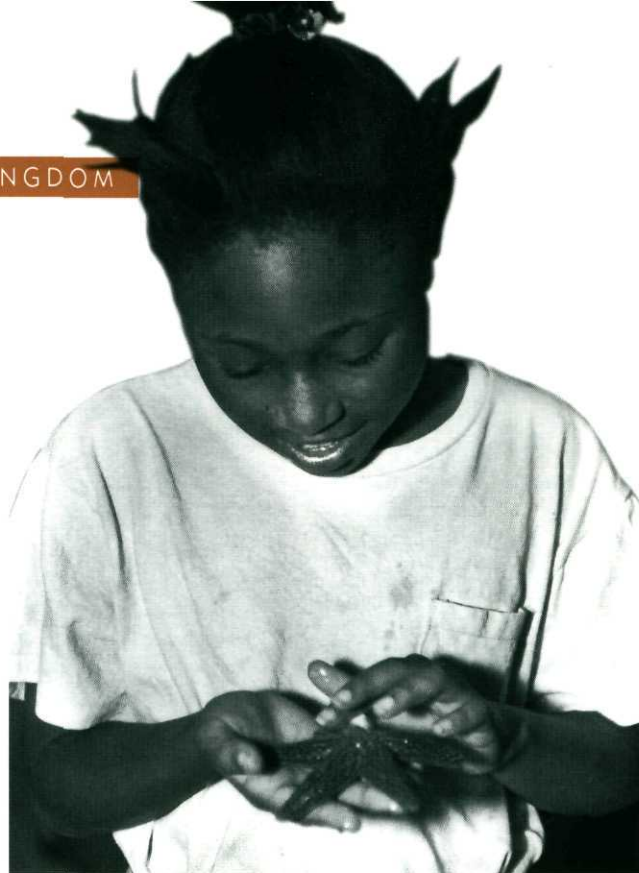
Jewell and Eastin, who are second-year students at Tufts' veterinary school, are among 21 area health sciences students to receive 1995-96 Schweitzer fellowships and \$2,000 stipends that will enable them to provide a variety of direct health-care services to under-served, inner-city residents. Jewell and Eastin are the first veterinary students to be so honored by the program, which was established in 1991 and is sponsored by the Harvard Community Health Plan Foundation.

The fellows program was inspired by the work of Dr. Albert Schweitzer, a medical missionary in Africa, who wrote: "We are not truly civilized if we concern ourselves only with the relation of man

to man. What is important is the relation of man to all life." In developing their individual projects, both Jewell and Eastin found motivation in these words.

"Albert Schweitzer's philosophy, which he termed 'reverence for life,' extends not only to the reverence for human life but also to our animal companions," said Eastin, who praised the fellows program "for recognizing the importance of animals not only in Schweitzer's work but in society as a whole."

Jewell is using animals to reinforce the concept of "reverence for life" with four 9-to-13-year-old members of Gang Peace, a Roxbury youth group that denounces violence. "Human/animal relations offer many opportunities to teach kids about having respect for themselves and others as well as for animals," said Jewell, who has planned discussions, tutorials and educational field trips, including visits to Tufts New England Veterinary Medical Center, the New England Aquarium, the New England Science Center, Southwick's Wild Animal Farm, the MSPCA's



Angell Memorial Hospital and area farms.

Working with Eldercorps, Jeff's Companion Program and animal shelters, Eastin's goal for the year is to place up to 25 well-behaved, older shelter dogs in the homes of elderly people. "The elderly in our population often are left alone when a mate dies or children leave home, resulting in feelings of loneliness and isolation," he said.

"How this plays out in physical manifestations is not entirely clear, but some studies have shown that placing animals with the elderly directly affects their quality of life by improving their mental outlook and, perhaps, their physical health," said Eastin, who is working on doctor of veterinary medicine and master's of public health degrees at Tufts.

Cristin Merck



How many people does it take to carry an 11-foot, 90-pound Burmese python? Gang Peace members, from left, Patrick Malcolm, Gilbert Stowers and Ceres Morgan help Amanda Pomeroy, wildlife assistant at the New England Science Center, and second-year veterinary student Leonard Jewell, while Katrina Oliver, top right, takes a close look at a starfish during a recent field trip to the center in Worcester.

Photos by Brian DelGiudice

BRIEFLY

2 named overseers

Noah T. Herndon of Chestnut Hill, Mass., and Sarah H. Williams of Rutland, Mass., have been appointed to Tufts University's Board of Overseers to the School of Veterinary Medicine. The 21 veterinary overseers serve as advisers to, supporters of and advocates for the university and the school.

Mr. Herndon is a partner in Brown Brothers Harriman & Co., a private banking firm in Boston. He also is a director of Fieldcrest Cannon Inc., National Auto Credit Inc. and Watts Industries Inc., among other concerns. In addition, Mr. Herndon serves as an overseer to the Museum of Science in Boston, a member of the corporation at Partners Healthcare System Inc. and a director and treasurer of Dumaines Trust.

Mr. Herndon is a graduate of Princeton University and Harvard University Graduate School of Business Administration. His son, Mark, is a member of the Class of 1997 at Tufts' veterinary school.

A lifelong animal enthusiast, Mrs. Williams has many farm and companion animals at Treasure Hunt Farm in central Massachusetts. She formerly was an avid horsewoman who showed hunters throughout New England. She also helped train companion and drug-sniffing dogs, taught canine obedience training and competed with her German shepherd and standard schnauzers, winning obedience titles in the United States and Canada.

Last year, the Harrington Radiation Oncology Program at Tufts was named

in honor of Mrs. Williams' family. It is New England's only veterinary radiation therapy center.

Mrs. Williams is a former director and a current incorporator of Girls Inc. in Worcester and was assistant treasurer and a director of Johnson & Bassett Inc. She is a graduate of Bradford Junior College and attended the former Bouve-Boston School of Physical Education and Physical Therapy at Tufts University.



Feline

friends

A cat's ability to form social relationships with other cats and other species, such as people, is strongly influenced by its experience during the "sensitive period" between its second and seventh week of life.

Because kittens readily form social relationships during this period, an owner improves the prospects of a litter of kittens becoming companionable adults by handling all kittens briefly several times each day, according to a recent issue of Tufts' newsletter *Catnip*.

Cats don't socialize only with humans. Cats raised with pet mice or birds during this sensitive period often come to view these species as companions, not prey — even into adulthood. And cats adapt more easily to dogs if they are exposed to them during their first two months of kittenhood.

For *Catnip* subscription information, call (800) 829-0926.



B A B Y B O O M

Staff members at Tufts' Equine Reproduction Center and Tufts' Marilyn M. Simpson Neonatal Intensive Care Unit were kept busy throughout the spring by about 35 foals — including a set of healthy twin thoroughbreds — that were either born at Tufts or brought in for specialized care.

Photo by Brian DeGiudice

Continuing ed

Upcoming Tufts' continuing education programs include:

- Managing Neurosurgical Conditions for the Small Animal Practitioner, Sept. 24 at Tufts.
- Llama Medicine and Surgery Symposium for the Veterinary Practitioner, Oct. 13-14 at Hindsight Farm, East Killingly, Conn.

For more information contact Janice Lennon, associate director of continuing education, at (508) 839-5302, ext. 4705.



Wildlife Clinic director named

Dr. Mark Pokras has been appointed director of Tufts' Wildlife Clinic, succeeding Dr. Charles Sedgwick, his mentor, who retired earlier this year.

This summer, Sedgwick returned after 25 years to the Los Angeles Zoo, where he assumed the newly created position of supervisor of animal health services.

An assistant professor of environmental studies and of comparative medicine, Pokras received a bachelor's degree from Cornell University in 1971 and a doctor of veterinary medicine degree from Tufts in 1984. He completed the first residency program in wildlife medicine at Tufts in 1989.

Pokras' clinical and research interests include the environmental toxicology and pathology of fish-eating birds, particularly loons and eagles, captive management of non-mammalian wildlife, avian medicine and surgical anatomy.



Wildlife Clinic director Dr. Mark Pokras, right, with a young woodchuck.

Photo by Mark Morelli



Beware of bloat

"Don't gulp your food!" is more than an admonishment for bad manners. For dogs, it may be a matter of life and death.

Gastric dilatation-volvulus (GDV), or bloat, is a potentially fatal condition in which a dog's stomach distends with gas, food and fluids (dilatation) and rotates or twists (volvulus). The twisting blocks both the entrance to and the exit from the stomach. GDV usually occurs within a few hours after a dog eats, although no single food type, ingredient or feeding method has been proven to cause bloat.

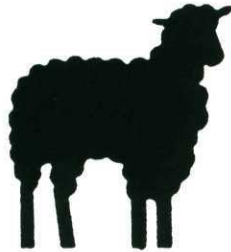
"We know some of the predisposing factors for disease development, but we don't know exactly what causes bloat," Dr. Lisa Freeman, V91, clinical instructor of medicine at Tufts' veterinary school, reported in a recent issue of Tufts' newsletter *Your Dog*.

Because it is a serious disorder that requires immediate treatment, owners should know the signs of bloat: abdominal swelling and tenderness, unsuccessful attempts to vomit, excessive drooling, restlessness and whining, panting or labored breathing and staring at the abdomen. To reduce the risk of bloat:

- Feed your dog two or three small meals daily rather than one large one.
- Make any dietary changes gradually over several days.

- Pre-mix dry kibble with water so the food expands before the dog eats it.
- Avoid feeding "people food."
- Don't vigorously exercise your dog immediately before or after meals.
- Minimize the amount of air your dog ingests by preventing him from eating large quantities of food too rapidly.
- Prevent your dog from drinking a lot of water before or after meals.

For *Your Dog* subscription information, call (800) 829-5116.



At the Big E

Tufts School of Veterinary Medicine offered mini-seminars on a variety of animal health care topics at "The Big E" in West Springfield, Mass., Sunday, Sept. 17, from 2 to 6 p.m. in the Farm-A-Rama Building.

Seamless R&D

As federal funding for research and higher education continues to decline, universities that traditionally were "allergic" to corporate research agreements will seek out that support, according to the dean of Tufts' veterinary school.

"Corporations are going to have to step up their investment in research and development, because the public sector is not going to be able to sustain our tradi-

tional level of expenditures. And companies won't have the same level of basic research findings to commercialize," said Dr. Franklin M. Loew, who was the keynote speaker at the 30th annual meeting of the Worcester Business Development Corp. (WBDC).

"We have a chance here in Central Massachusetts to invent a new type of university/business partnership, where each brings its point of view and expertise to a more seamless type of R&D," Loew said. Although conflicts of interest, research misconduct and the risk of forsaking basic research will have to be vigilantly guarded against, "the general opportunity for symbiosis is too good to pass up," he said.

For the past decade, Tufts' veterinary school faculty have been encouraged to carry out

research for biotechnology, pharmaceutical and other private science-based companies. "Today, fully 46 percent of the veterinary school's research and development portfolio falls into this category," Loew said. "I believe this to be among the highest proportions of privately sponsored research in New England, if not in the country."

To help ensure that Central Massachusetts has the space to attract and retain companies, Tufts in 1992 formed Tufts Biotechnology Corp. (TBC), a for-profit subsidiary that has a profit-sharing agreement with the Commonwealth and plans to develop a biotechnology research park on part of the veterinary school's Grafton campus. The TBC site is adjacent to the WBDC's planned CENTECH Park.

SCAVMA AUCTION



Planning is under way for this year's Tufts' Student Chapter of the American Veterinary Medical Association (SCAVMA) auction, which will be held in November. From left, Christine (Weatherup) Heinritz, V97, 1994-95 president of SCAVMA; Cheryl Rosa, V97, co-chair of last year's auction; and Kim Sanford, sales representative for Upjohn Co., which each year helps support SCAVMA activities. Last year's auction of donated items — from a year's supply of dog food to a weekend in Vermont and original works of art — raised more than \$6,000 for student activities and indigent animals. For more information about making a donation to the auction or attending the event, call (617) 636-7600.

Photo by Robert Brown

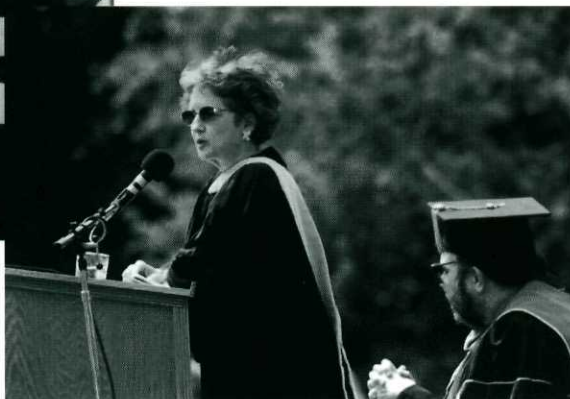
COMMENCEMENT '95

CLASS OF 1995

DOCTOR OF VETERINARIA



Husband-and-wife graduates Robert Nicholson and Deborah Veo had plenty to celebrate at the reception following commencement. During the Dean's Awards Dinner a few days earlier, Nicholson was the recipient of three awards for clinical proficiency and academic achievement, while Veo was presented with four awards, including the Irma E. Baron Humanitarian Award, presented by Dr. Jessica Baron, V87, president of the Tufts Veterinary Alumni/ae Association, and her family in memory of Baron's mother.



Science journalist Barbara J. Culliton, editor of *Nature Medicine*, tells graduates that as veterinarians, they will become involved in ethical debates over genetic research.

Veterinary school graduates 13th class

"One of the most exciting areas of science" was how distinguished science journalist Barbara J. Culliton described veterinary medicine to the 65 members of the Class of 1995 at Tufts School of Veterinary Medicine.

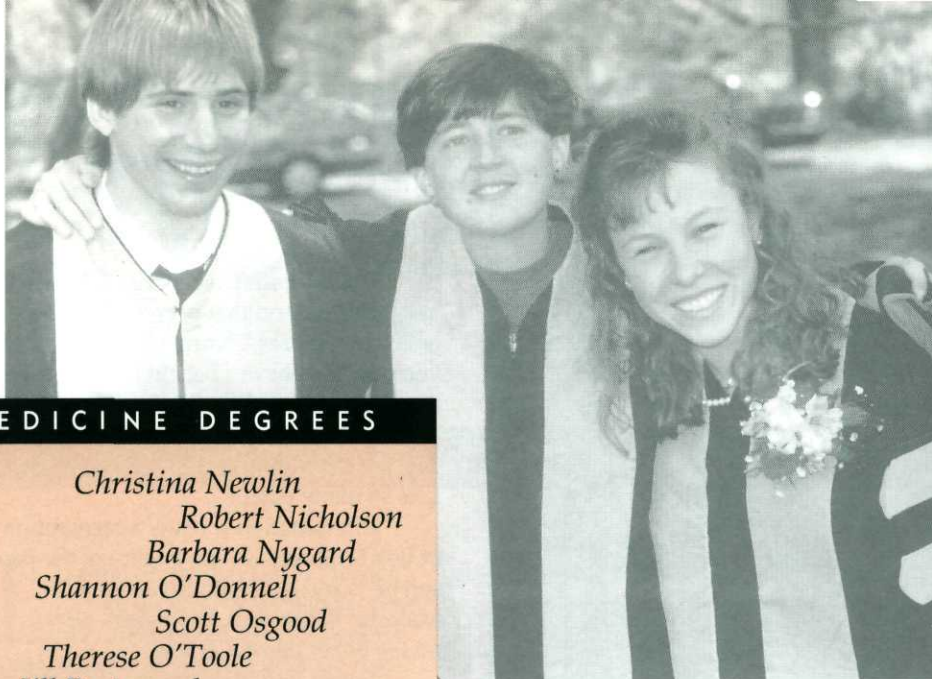
As the guest speaker at the school's 13th veterinary commencement May 21, Culliton, who is editor-in-chief of *Nature Medicine*, said that veterinarians would play an important role in the evolving debates on genetic engineering and the nature of human and animal life.

"Veterinarians are uniquely qualified to be involved in debates of human/animal interactions involving biotechnology and biomedical research," Culliton said.

Following greetings from Dr. Franklin M. Loew and Dr. Henry L. Foster, Tufts trustee emeritus and chairman of the Board of Overseers for Veterinary Medicine, the commencement program began with the dedication of the Jean Mayer Administration Building on the Grafton campus in honor of Tufts' former president and chancellor.

Dr. Charles Sedgwick, clinical associate professor of environmental studies, who until his recent retirement had been director of Tufts' Wildlife Clinic, was the faculty speaker, while Elizabeth Chittick, recipient of this year's Franklin M. Loew Book

- Linda Aronson
- Donna Avison
- Lisa Beagan
- Philip Bolton*
- Ellen Bowron
- Kimberly Boyanowski
- Laura Carmel
- Lisa Carter
- Elizabeth Chittick
- Lisa Colarusso-McCarthy
- Shawn Crawford
- Stephen DeVincent
- Cary Dyer
- Lori Feldman
- Heather Flaherty
- Donna Fortin
- Jeanne Gaughan
- Susan Gilliland
- Maria Glowaski
- Thomas Hannan
- Michael Hawes
- Liesl Hawley*
- Liesa Heineman
- Jack Heller
- Jennifer Herndon
- Neil Hess
- Susan Hilliard
- Cary Hills*
- Anelise Horah
- Helen Januszewski
- Jennifer Johnson*
- Glenn Kalick
- Jonathan Kelman
- Edward Lawrence
- Robert MacDonald
- Ashley Magee
- Bridget Malboeuf-Stewart
- Antonietta Mancini
- Daniel Massoff
- Douglas Meade
- Linda Murray
- Shannon Nakaya*



RY MEDICINE DEGREES

Christina Newlin
Robert Nicholson
Barbara Nygard
Shannon O'Donnell
Scott Osgood
Therese O'Toole
Jill Pasternack
Curtis Press
Kelley Quigley
Catherine Reese
Susan Rohrbach
William Rosenblad
Catherine Sanders
Vincent Seccareccia III
Edward Simkins
Renee Slowick
Barbara Sousa
Cynthia Stafford
Heidi Thomas
Nancy Thompson
Maria Vandis
Deborah Veo
Michael Wadanoli

* THESIS COMPLETED

CERTIFICATES OF INTERNSHIP

Dr. Christine Kreuder
Dr. Matthew Mellema
Dr. Patricia Robbins

CERTIFICATES OF RESIDENCY

Dr. Sally Colgan
Dr. Laurent Couetil
Dr. Angela Frimberger
Dr. Jennifer Hanson, V89
Dr. Alicia Karas, V89
Dr. Nicholas Macy
Dr. Janet Welch
Dr. James Wohl

Graduates Scott Osgood, Heather Flaherty and Jeanne Gaughan catch a few minutes together before the commencement procession begins.

Dr. Henry L. Foster, Tufts trustee emeritus and chairman of the Board of Overseers for Veterinary Medicine, administers the Veterinarian's Oath to the Class of 1995.



Award, was the student speaker. Co-presidents of the class, Catherine Reese and William Rosenblad, announced the class gift of a computer and printer for the student lounge.

This year's recipient of the Norden Distinguished Teacher Award was Dr. Patricia Provost, assistant professor of large animal surgery. Dr. Irwin Leav, professor of pathology, received the Pfizer Award for Research Excellence.

Following presentation of diplomas and the hooding of the graduates, Foster administered the Veterinarian's Oath to the graduates. The ceremonies concluded with presentation of certificates of internship to three veterinarians and certificates of residency to eight veterinarians who had completed advanced training at Tufts.



Members of the Class of 1995 recognized by Dr. Anthony Schwartz, third from the left, professor and chairman of surgery, for obtaining the highest grade-point averages are, from left, Jennifer Herndon (who gave birth to a son, Mitchell, on May 20 and was unable to attend commencement), Liesa Heineman, Leisl Hawley, Ashley Magee and Elizabeth Chittick. The presentations were made during the Dean's Awards Dinner, hosted by Dr. Franklin M. Loew with support from the Upjohn Co., on May 16. About 40 awards were given to students.

Photos by Robert Weisman and Brian DelGiudice



Dr. Robert Murtaugh, left, and Dr. Jennifer Graham consult on a case in the intensive care unit.

Photo by Brian DeGiudice

DOG ENTHUSIASTS FUND INTERNSHIP

Growing up, Norma Baker had a pet boxer named Sultan. Her parents, Sydney and Leah Siegel, also loved dogs. Norma likes to tell the story of how her mother once took in an old Airedale terrier “and gave it a wonderful life.”

Norma (Siegel) Baker, who received her undergraduate degree from Tufts in 1965, and her husband, Malcolm, live in Beverly Hills, Calif., where they once owned a boxer named Cindy. When Cindy became ill with cancer about eight years ago, the Bakers turned to Tufts School of Veterinary Medicine for help.

That’s how they met Dr. Robert Murtaugh, associate professor of medicine and co-director of emergency and critical care at Tufts New England Veterinary Medical Center.

“He was absolutely wonderful,” Norma Baker recalled. “He spent hours with us on the phone and spoke with specialists out here. Dr. Murtaugh is the most patient and wonderful man.”

Tufts’ veterinary emergency and critical care unit operates around the clock in much the same manner as a hospital emergency room. The unit handles more than 2,000 emergency admissions of small animals – primarily dogs and cats – each year. In addition to their medical skill, the staff provides emotional support to the owners of critically ill animals.

Despite the best efforts of Murtaugh and the Bakers, Cindy succumbed to her

cancer, lymphosarcoma of the intestinal tract. In honor of their pet, the Bakers made a donation to the veterinary school, and they have remained friends with Murtaugh and interested in the school.

Now, Malcolm and Norma Baker have provided funding for the Sydney M. and Leah Siegel Internship in Veterinary Emergency and Critical Care Medicine, a one-year internship named for Norma Baker’s parents. Murtaugh says the Bakers’ philanthropy is critical to helping Tufts attract the nation’s most qualified recent graduates who are interested in pursuing careers in emergency and critical care medicine.

“Not everyone who graduates from veterinary school does an internship,” Murtaugh said. “The people who apply for the internships are the cream of the crop; they’re looking for advanced training.”

Tufts established one of the nation’s first residency and internship programs in veterinary emergency and critical care. Before the Bakers’ gift, however, Tufts was at a disadvantage because it was unable to pay an intern a stipend to support clinical work and advanced study.

That is not the case this year. Tufts attracted Dr. Jennifer (Dyann) Graham, a 1995 graduate of the University of Minnesota College of Veterinary Medicine. Her qualifications? Exceptional recommendations from her mentors, a number-one ranking in a class of 75 students and a perfect 4.0 grade point average!

“This internship allows another person to be trained, and that person will then go on to train others,” Norma Baker said. “So you don’t just have a benefit in the present day. You have someone who will continue to pass on her knowledge. And maybe someday, we can put an end to this cancer that kills so many dogs.”

“Our donation is really a recognition of Bob Murtaugh — the quality of the person he is and his responsiveness to us,” Malcolm Baker said. The Bakers now own a boxer named Tracy.

“Norma and Malcolm Baker’s concern and generosity defy description. They are two of the most caring individuals I have ever met,” Murtaugh said. “I am deeply grateful for their continued support of Tufts’ veterinary emergency and critical care program.”

John LoDico

University to conduct national search for permanent veterinary school dean

(Continued from page 2)

dent and provost of Tufts. “Dr. Anwer will be working closely with the strong management team in place at the school while we conduct an energetic nationwide search for a dynamic new leader.”

Anwer’s research, which is supported by grants from the National Institutes of Health, seeks to improve our understanding of why certain liver functions, such as bile formation, are decreased in liver diseases.

Anwer will not be a candidate for the deanship, which requires a professional degree in veterinary medicine as mandated by the American Veterinary Medical Association.



V E T

BOOKSHELF

ETHICS: A HOT TOPIC IN VETERINARY MEDICINE

Like the proverbial James Herriot "gentle doctors," veterinarians typically are depicted as hard-working, compassionate individuals who are dedicated to helping others. Why then, would veterinarians need to be concerned about ethics?

"Built into the very essence of their professional role is a conflict – they serve both animals and people," said Jerrold Tannenbaum, an attorney, ethicist and clinical associate professor of environmental studies at Tufts School of Veterinary Medicine, who is the author of *Veterinary Ethics*. "This dual function can put veterinarians in an impossible position

when what's good for the patient is not good for the client, or when helping a client means harming the patient.

"Today, the veterinary profession is confronted by forces that challenge traditional views about animals and animal doctors," he said. Some of the contemporary issues and the ethical questions they pose include:

- *the elevated status of companion animals.* "Animals are considered valued companions, if not family members, and

people will do almost anything to keep their treasured pets safe, healthy and happy," Tannenbaum said.

- *the advent of high-tech veterinary procedures.* The availability of chemotherapy, total hip replacement and other sophisticated veterinary procedures – many of which are costly – intensifies the moral dilemmas veterinarians face.
- *the role of food, farm and sport animal practice.* "The elevated status of companion animals raises serious issues for a profession in which many of the patients are eaten, worn or ridden and raced in competition — in short, viewed not as companions but as economic resources," Tannenbaum said.
- *widening horizons.* "Veterinarians are playing an expanded role in assisting developing nations to improve their economies and food supplies. As people and animals interact more closely, veterinarians are assuming ever greater importance in public health," Tannenbaum said.

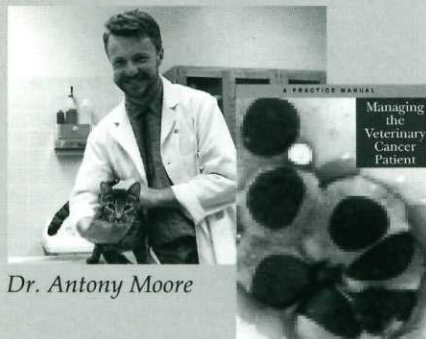
The expanded 615-page, second edition of *Veterinary Ethics* was published this year by Mosby-Year Book Inc. of St. Louis and is available for \$35.95 by telephoning 1-(800) 426-4545.



In the second edition of *Veterinary Ethics*, Jerrold Tannenbaum explores the contemporary ethical dimensions of animal health care for veterinarians and animal owners.

Photo by Brian DelGiudice

MANAGING THE VETERINARY CANCER PATIENT



Dr. Antony Moore

Cancer is the most common natural cause of death in cats and dogs today. *Managing the Veterinary Cancer Patient: A Practice Manual* provides veterinary practitioners with clinically relevant details about the diagnosis and management of animals with cancer.

Published this year by Veterinary Learning Systems of Trenton, N.J., the book is co-authored by Dr. Gregory

Ogilvie, associate professor and medical oncologist at Colorado State University, and Dr. Antony Moore, associate professor and medical oncologist at Tufts School of Veterinary Medicine.

The 542-page book is divided into five major sections — biopsy, common therapeutic and supportive procedures, oncologic emergencies, paraneoplastic syndromes and management of specific diseases. Chapters are organized by major headings that give easy access to practical information and common problems. A clinical briefing at the beginning of each chapter provides information about the most commonly asked clinical questions.

The book is available for \$59 from Veterinary Learning Systems by telephoning 1-(800) 426-9119.



VETS

Fulbright scholar to study

ENDANGERED CHIMPANZEES



For two summers, Dr. Eleni Nikitopoulos, V94, worked for the preservation of chimpanzee habitat and health in Burundi's Kibira Forest.

Africa's chimpanzees are on the world's list of endangered species, the victims of habitat loss and illegal poaching.

By studying a colony of captive chimpanzees, Dr. Eleni Nikitopoulos, a 1994 graduate of Tufts' veterinary school, hopes to further the understanding of chimpanzees' reproductive behavior.

With support from the Fulbright Scholar Program of the U.S. Agency for International Development, Nikitopoulos will travel this fall to the Netherlands, where she will work for nine months with the ethology and socioecology group at the University of Utrecht.

"I knew that I wanted to work in primate behavior even before attending veterinary school," said Nikitopoulos, who received an undergraduate degree in psychology from Tufts in 1988. From an observation tower, Nikitopoulos will observe and document the behavior of 30 chimpanzees at a Utrecht zoo. Kept on an island surrounded by a moat, the chimpanzees live uncaged and breed naturally.

"I'm interested in finding out whether females choose their mates and what reproductive criteria they use in making that decision," Nikitopoulos said.

"We already know there is a hierarchy within a colony. I want to find out if rank is a factor in choosing a mate," she said. The information will be used to help increase wild populations as well as to provide insights into evolutionary theory.

Nikitopoulos is the third Tufts veterinary graduate to receive a Fulbright award since 1991.

Sudan project benefits people and animals

(Continued from page 1)

on getting vaccines for their cattle than for their children," said Dr. Chip Stem, assistant professor of medicine, section of international veterinary medicine at Tufts. "They reasoned that if the animals died of rinderpest or other diseases, the children would die of malnutrition anyway — with or without immunization," he said.

This situation required an innovative solution: UNICEF would vaccinate the cattle against rinderpest — but only if women and children were brought to UNICEF's mobile health clinics.

Rinderpest is the most deadly viral disease of African cattle and causes up to 80 percent mortality in unvaccinated herds, said Dr. Tim Leyland, clinical assistant professor at Tufts and veterinary project officer for the UNICEF operation. "Southern Sudan is the last major focal point of rinderpest in Africa," he said.

Last year, Leyland oversaw the vaccination of 1.4 million Sudanese cattle against the disease. This year's goal is to vaccinate 1.3 million cattle. The UNICEF-supported rinderpest work in southern Sudan is being conducted under the auspices of the Pan-African Rinderpest Campaign (PARC), an ongoing multi-national effort to vaccinate more than 140 million cattle and eradicate the economically devastating disease from Africa.

Based just over the Sudanese border in Lokichokio, Kenya, the UNICEF program involves 10 non-governmental organizations (NGOs), more than 120 foreign personnel, including 10 veterinarians and 28 physicians, and 14 airplanes that are used to drop food, medicines and other supplies into otherwise-inaccessible areas of southern Sudan.

Tufts became interested in Sudan in 1990, when Dr. Albert Sollod, professor of medicine, developed the veterinary school's initial contract with UNICEF. Since then,

(Continued on next page)

Developing leading-edge solutions to the problems of live stock development, maintenance of biodiversity and veterinary public health in developing countries is the principal mission of the section of international veterinary medicine at Tufts School of Veterinary Medicine.

"Tufts' long-term, sustained commitment to faculty and program development has produced the most successful program in international veterinary medicine offered anywhere," said Dr. Chip Stem, assistant professor of medicine, who recently concluded two years as head of the section of international veterinary medicine. Tufts was the first U.S. veterinary school to include a course in international veterinary medicine for all students in its core curriculum.

International veterinary medicine is among Tufts' five "signature programs," those clinical, research and instructional areas on which the school places special emphasis. The program also is designated a World Health Organization Collaborating Center for Veterinary Public Health Systems and Research Analysis.

Since the international veterinary program was established in 1983, faculty and students have worked on long- and short-term projects in 36 countries in Africa, Asia, Central and South America and Southeast Asia.

In recent years, students have studied gastrointestinal parasites of primates at Gombe National Park in Tanzania; participated in trials of oral rabies vaccines



Dr. Tim Leyland, fourth from the left, with a group of individuals who were trained to instruct community-based veterinary workers to vaccinate cattle against rinderpest and to diagnose and treat four common cattle diseases.

for dogs in Nepal and Turkey; and conducted ethnoveterinary studies of traditional animal health practices in Afghanistan, Mexico, Kenya, Morocco and Niger, among others.

"Our students are our strength," said Dr. David Sherman, associate professor of medicine and new section head, who is writing a textbook on international veterinary medicine for Williams & Wilkins. "We attract a significant number of students who come to us with relevant overseas experience," he said.

Christine Jost, V96, learned about the international program while she was a Peace Corps volunteer in Malawi and was accepted into Tufts' dual doctor of veterinary medicine and master's degree

program with Tufts' Fletcher School of Law and Diplomacy.

"At Tufts, I knew that I would have the opportunity to explore my interests, design my own program and work overseas," Jost said.

At the conclusion of her first year at Tufts, Jost spent a summer in Quetta, Pakistan, where she worked with Sherman on a study of the effectiveness of traditional goat medicines. The following summer, in Karamoja, Uganda, Jost interviewed cattle owners for a comparative ethnoveterinary and serological study of rinderpest vaccination rates. Both projects were supported by the National Institutes of Health.

C.M.

(Continued from previous page)

a number of Tufts veterinarians and veterinary students have worked on the rinderpest project in Sudan.

In this region of extreme conditions, medical and veterinary personnel travel by car during the dry season over rugged terrain to reach the cattle camps where people congregate. But when the six-month rainy season overflows the Nile, health workers arrive on foot, slogging through mud, insects, snakes and often waist-deep water.

"The vaccine of choice for the PARC campaign is a revolutionary, heat-stable vaccine that was developed at Tufts several years ago," Leyland said. "The vaccine requires no refrigeration for up to a month, enabling veterinary teams to reach remote areas where rinderpest has persisted."

The thermoresistant rinderpest vaccine was developed by Dr. Jeffrey Mariner, a 1987 graduate of Tufts' veterinary school, in collaboration with

the U.S. Department of Agriculture's Foreign Disease Diagnostic Laboratory in New York. From Nairobi, Kenya, Mariner, who is a clinical assistant professor of medicine at Tufts, is overseeing the technology transfer and production of the vaccine at laboratories in several African countries.

Cristin Merck



P H O T O

FINISH

On the wing

At Tufts' Wildlife Clinic, Dr. Rosemarie Borkowski, above, staff veterinarian, sharpens the talons of a 12-week-old bald eagle in preparation for its release back into the wild July 12. The fledgling was severely dehydrated and emaciated when it was found on a Quincy, Mass., rooftop in late May. Wildlife biologists and veterinarians believe that the bird had trouble finding food during its flight up the East Coast from Florida or Georgia, where it was hatched. At right, after seven weeks of treatment at Tufts, the rehabilitated eagle took flight over Pocksha Pond in Lakeville, where it was released by Bill Davis, Eagle Project leader with the state Division of Fisheries and Wildlife. The area offers a plentiful food supply and already supports a pair of nesting eagles.

Photos by Barry Chin/The Boston Globe



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