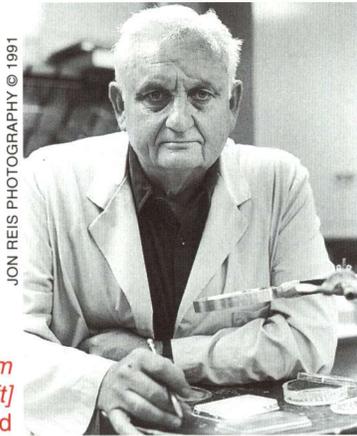




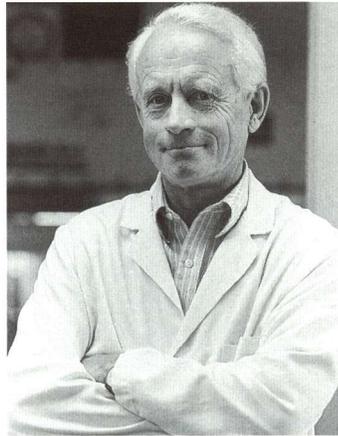
C O R N E L L

Veterinary Medicine

SPRING 1997

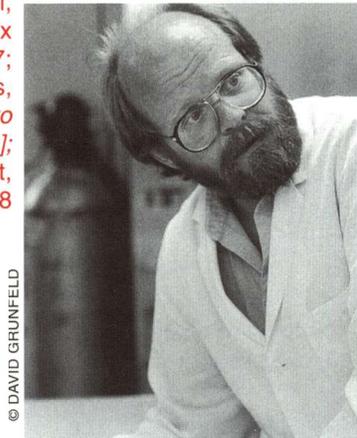


JON REIS PHOTOGRAPHY © 1991



JON REIS PHOTOGRAPHY © 1991

[clockwise from upper left] Leland Carmichael, PhD'59; Max Appel, PhD'67; Leroy Coggins, PhD'62 [photo taken in 1976]; and Karel Schat, PhD'78



© DAVID GRUNFELD



UNIVERSITY PHOTOGRAPHY

Frank Loew Resigns: Donald Smith Named Acting Dean

Franklin M. Loew, DVM '65, PhD, the eighth dean of the College of Veterinary Medicine, announced in December 1996 his resignation effective January 31, 1997, to be president and chief executive officer of Medical Foods, Inc., a Massachusetts company that researches and develops food products for people with chronic diseases.

Provost Randel appointed Donald F. Smith as acting dean, to serve until the beginning of the 1997-98 academic year. Smith, a professor of surgery, served as the College's associate dean for academic programs until his new appointment.

Dean Smith holds a DVM (1974) from the University of Guelph in Ontario, Canada. He served as assistant professor of surgery at Cornell from 1977 to 1982; he served as a faculty member and chair of the department of surgical sciences at the University of Wisconsin-Madison School of Veterinary Medicine until his return to Cornell in 1987, as professor and chair of the department of clinical services.

As associate dean, Smith provided administrative support to the faculty involved in

Dogged Efforts Pay Off

Big Red research gurus don't just concentrate on things vegetable; the animal and mineral are also well represented.

Of the more than 300 patents Cornell now holds, generating some \$2 million a year in income for the university, the single biggest moneymaker has been a vaccine against the canine parvovirus. Discovered in a flurry of work by two Cornellians—microbiologist/

immunologist Max Appel, PhD '67, and Leland Carmichael, PhD '59, the John M. Olin Professor of Virology—the vaccine has earned Cornell more than \$6 million since 1978.

"If you have your dog vaccinated in 21 countries around the world," says H. Walter Haeussler, president of the Cornell Research Foundation, "you're paying Cornell some money."

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ACTING DEAN CONTINUED FROM PAGE 1

development and implementation of the new academic program for the veterinary college.

Provost Don M. Randel, in announcing Loew's departure, said, "Frank launched important initiatives at the College of Veterinary Medicine and we have benefited from his service. He will be missed."

"I regret leaving Cornell and Ithaca after such a relatively short time," Loew said, "but this really represented an entrepreneurial opportunity I couldn't refuse."

A 1965 DVM graduate of Cornell who also earned his bachelor's degree here in 1961, Loew became dean of the College of Veterinary Medicine in September 1995. Loew also has a PhD in nutrition from Canada's University of Saskatchewan. He returned to Cornell as dean from Tufts University, where he had been dean of the School of Veterinary Medicine since 1982. Prior to that he was director of comparative medicine at Johns Hopkins School of Medicine. He is an elected member of the Institute of Medicine of the National Academy of Sciences and is well known for his research and commentary on animals and their role in society.

While at Cornell, Loew presided over the dedication of the Veterinary College's new Veterinary Medical Center in June 1996. The College's Veterinary Diagnostic Laboratory worked with several New York state departments and Canadian ministries on a mass raccoon rabies vaccination program, which Loew actively supported. During Dean Loew's tenure, the College offered a new

undergraduate course on the health and environmental effects of toxic substances, a first for Cornell and one of few offered at any American university.

A search process for a new dean is underway. Provost Randel has recruited a search committee and asked the veterinary faculty for suggested dean-ship candidates, both from within and outside the College, for consideration by the committee. "Ultimately, we must enable President Rawlings to appoint someone with the intellectual and personal qualities necessary to lead an extraordinarily distinguished College to even greater distinction," Randel said. ■

PATENTS CONTINUED FROM PAGE 1

Similarly, a vaccine against Marek's disease—which causes tumors in chickens and once posed a severe threat to the poultry industry—has earned the university more than \$3 million. And that, as they say, is no chicken feed. "The vaccine," says inventor Karel Schat, PhD '78, "has saved the poultry industry unknown millions of dollars."

A number of diagnostic tests also have come out of the College of Veterinary Medicine, including the Coggins test, invented in 1970 by virology professor Leroy Coggins, PhD '62. The test, which is now required for entry in virtually all equine sporting events and for transporting horses across state lines, detects equine infectious anemia. ■

Reprinted with permission from Cornell Magazine, December 1996.

Message from the Departing Dean

—Franklin M. Loew '61, DVM'65

Cornell is a very special place in US veterinary medicine and serving as dean is a very special honor. It was especially difficult for me to decide to give it up. But when the opportunity arose to become president and CEO of a new company, it touched every entrepreneurial bone in my body.

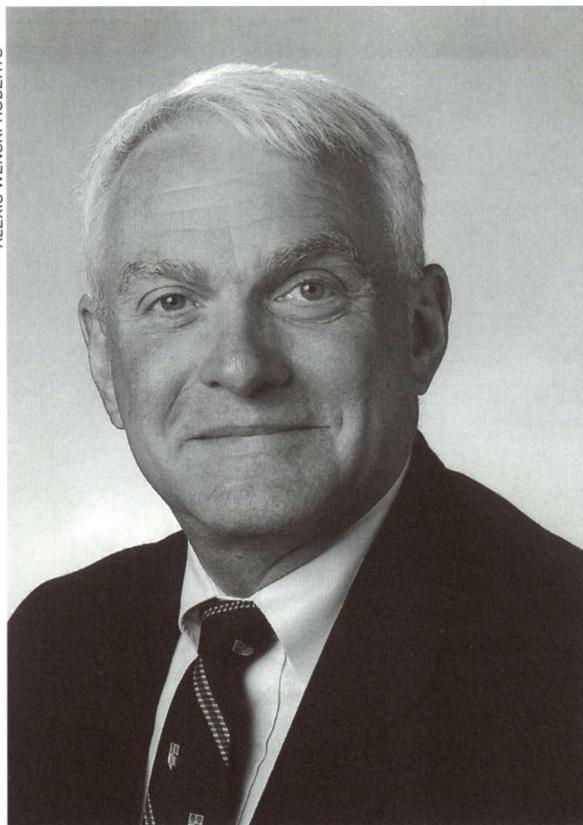
Thus, on February 1, I became the president of Medical Foods, Inc., a company that takes research from Harvard Medical School and develops what the FDA categorizes as medical foods for people with particular disease conditions. My PhD is in nutrition; much of my early research career was spent in developing what is now canola oil for human use. So this really was a chance for me to preside over technology-transfer in a for-profit setting, after 31 years in academic life.

Cornell was left to me in fine shape by my predecessor, Dean Robert Phemister, and I am leaving it in good shape (I believe) to Dr. Donald Smith who has acceded to Provost Randel's request to serve as acting dean.

I especially want to thank the College's staff, students, and faculty for their support. And while I feel guilty about departing so soon, I've been around long enough to know that they are the ones on whom the College's reputation rests.

Cornell's alumni/ae are simply the best, and I wish you each all the success your hard-earned DVM can bring you. ■

ALEXIS WENSKI-ROBERTS



Francis Kallfelz,
DVM, PhD, new
James Law Professor
of Medicine

University Names New James Law Professor

Francis A. Kallfelz, DVM, PhD, professor of medicine and director of the Veterinary Medical Teaching Hospital, has been named James Law Professor of Medicine at the College of Veterinary Medicine. The appointment, approved by the Cornell Board of Trustees at their March meeting, was announced by University Provost Don M. Randel.

A member of the college faculty since 1966 and director of the Veterinary Medical Teaching Hospital since 1991, Kallfelz conducts research in the areas of clinical nutrition, mineral metabolism, metabolic diseases of domestic animals, and veterinary nuclear medicine.

Kallfelz, Cornell DVM'62 and PhD'66, is a Diplomate and

past-president of the American College of Veterinary Nutrition, as well as past-president of the American Academy of Veterinary Nutrition. Since 1990 he has served on the Canine Nutrition Experts Committee and Feline Nutrition Experts Committee of the Association of American Feed Control Officials. He is the author or co-author of more than 150 scientific publications in his research fields, as well as a frequent contributor to the popular companion-animal press.

With the appointment, Kallfelz becomes one of five James Law Professors at Cornell University. The professorships are named for the first professor of veterinary medicine at Cornell, and in the United States. ■

Animal Clinical Chemists To Meet

The College of Veterinary Medicine will host the 1997 spring meeting of the Division of Animal Clinical Chemistry, of the American Association for Clinical Chemistry, on March 21 at the Statler Hotel on the Cornell campus. The meeting topic is "Diseases Transmissible from Animals to Humans Via Blood and Other Tissues."

Speakers at the symposium will be members of the College of Veterinary Medicine faculty. Douglas D. McGregor, MD, DPhil, associate dean for research and graduate education, will present the welcome address; Susan E. Wade, PhD, senior research associate, will speak on "Parasitic Diseases"; Edward J. Dubovi, PhD, associate professor of virology, will speak on "Viral and Bacterial Diseases"; Fred W. Quimby, VMD, PhD, professor of veterinary pathology, will speak on "Bloodborne, Nonhuman Primate Diseases"; Lawrence D. Carbone, DVM, Center for Research Animal Resources, will speak on "Special Concerns for Immunosuppressed People"; Larry J. Thompson, DVM, PhD, director of biosafety, will speak on "Bloodborne Zoonoses and Governmental Regulations"; and Thomas J. Reimers, PhD, professor of endocrinology, will moderate a question-answer session with all speakers.

Meeting organizers are Thomas J. Reimers, MS, PhD, chair-elect of DACC and Cornell Veterinary College professor of endocrinology, and Stephen Lamb, manager of technical services at the College's Diagnostic Laboratory. ■

International Groups Cooperate To Control Raccoon Rabies

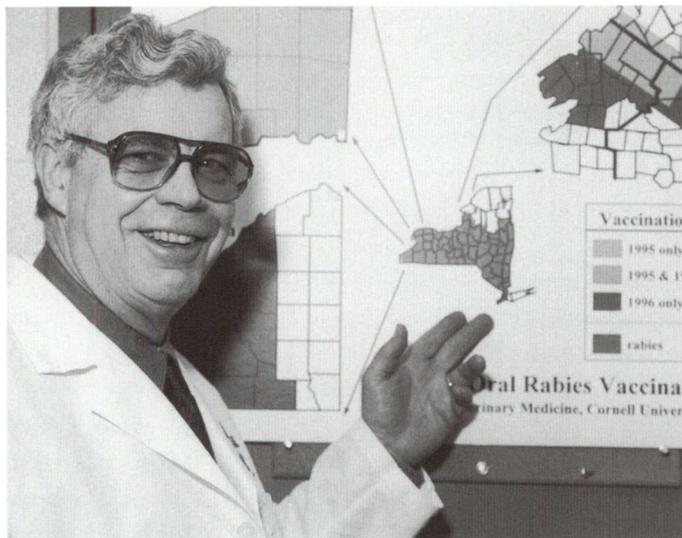
Concerned that raccoon rabies could infect wildlife and humans, Canadian authorities are reaching across the border to help support oral vaccination programs in Northeastern states by veterinarians and wildlife biologists from Cornell's College of Veterinary Medicine. The Province of Quebec is joining Ontario to assist programs that distribute vaccine-filled baits for raccoons in northern counties of New York, New Hampshire, Vermont, and Maine.

"Our Canadian colleagues have been struggling to control fox rabies, and they have demonstrated success with oral vaccines in baits," said Laura Bigler, PhD, leader of raccoon rabies vaccination programs in the College's Diagnostic Laboratory. "The last thing they need now is for raccoon rabies to spread to those provinces."

But raccoon rabies has progressed northward in the northeast United States at the rate of about 25 miles a year. International borders mean nothing to wandering animals. Nor do borders separated by rivers, which freeze in winter or can be bridged by stow-away raccoons. So the Cornell program attempts to immunize susceptible populations of

raccoons, beginning with areas along the US-Canada border.

To date, support for the raccoon vaccination efforts has come from government agencies where the greatest local threat was perceived—from some counties in northern New York, from the New York State Department of Health, and from funds allocated by members of the New York State Legislature. In 1995, Ontario began contributing scientific assistance, personnel, funding, and aircraft to drop vaccine baits in New York counties in the Niagara and St. Lawrence river areas.



Don Lein, DVM, PhD, showing areas in the Northeast where raccoons have been immunized

Financial assistance from Quebec in 1997 will allow the raccoon vaccination program to expand strategically to border regions of northern New York and Vermont, according to Donald Lein, DVM, PhD, director of the Diagnostic Laboratory. However, a truly regional approach—treating raccoon rabies in New England

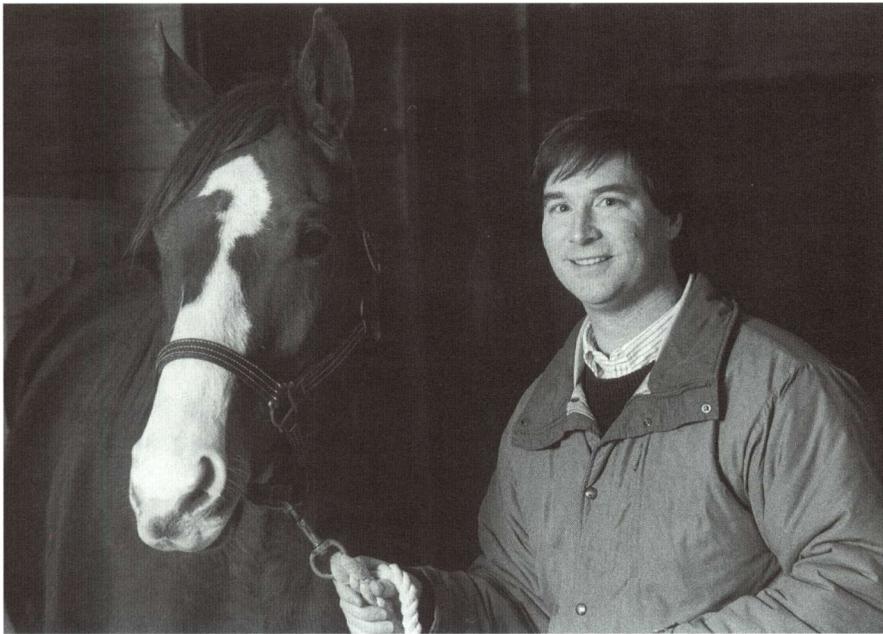
and the Northeast, and including Ohio, Pennsylvania, and Virginia—awaits federal, state, and local support, he noted.

"In one sense, this is still an experiment," said Bigler. "We are still collecting data in New York to evaluate types of baits and the best distribution strategies and densities, to further improve the cost-effectiveness and efficacy of these programs."

Explaining why Canada is spending money to treat American wildlife, Bigler said that raccoon rabies is considered to be a greater threat to human health than fox rabies because the more numerous raccoons live in closer association with humans. Annual costs of post-exposure treatment for people who are exposed to the deadly disease from animals far exceed expenditures for preventive immunization of wildlife.

"Canada sees working with us as a better investment than waiting for raccoon rabies to walk across the border," Bigler said. "We have shown that we can stop raccoon rabies at the border, and even move the vaccinated, disease-free zone southward. Our St. Lawrence barrier already has moved south since the first application in 1995."

Oral vaccine programs in New York and elsewhere, including Cape Cod, are demonstrating the potential for the strategy, Lein said, predicting: "We can put a noose around raccoon rabies and eliminate this disease from the Northeast once and for all." ■



Dr. James MacLeod
with Paterby at the
College's Equine Research Park

CHARLES HARRINGTON

Trying To Prevent Equine Joint Disease

As race horses pound the track, show horses jump high fences, and dressage horses are asked for full extension, these horses stress their joints. The resulting pain, swelling, and lameness have profound implications for owners and trainers and compromise many an equine athletic career.

To learn more about the early stages of cartilage degeneration, James MacLeod, VMD, PhD, assistant professor of molecular genetics at the College's James A. Baker Institute for Animal Health, studies acute joint inflammation. "We are trying to learn how inflammation of the soft tissues surrounding a joint results in cartilage lesions and degenerative arthritis over time," he explains. "We're finding that in early stages of joint inflammation while the cartilage still looks healthy, changes are already occurring in chondrocytes, the cells that make the cartilage. This information may

provide important insight into how structural cartilage lesions subsequently develop."

When joints become inflamed, veterinarians often prescribe corticosteroids. Some people blame these medications for somehow weakening cartilage and ligaments, accelerating the disease process, and possibly increasing the potential for catastrophic and life-threatening breakdown injuries.

Dr. MacLeod has been examining how corticosteroids affect different cell types in a joint—both cells in the surrounding soft tissues and the chondrocytes themselves. This knowledge should help veterinarians optimize the beneficial therapeutic effects of corticosteroids while minimizing deleterious side effects.

"We've found, for example, that Depomedrol, a popular corticosteroid, significantly alters gene expression in chondrocytes," he says. "This is an unintended effect of the medication."

Specifically, corticosteroids suppress the expression of type II collagen—a very important structural protein in cartilage that gives this tissue its strength. When joints become inflamed, chondrocytes respond by increasing their synthesis of type II collagen, possibly to help maintain the structural integrity of the cartilage matrix.

"Our research suggests, however, that the corticosteroids, while reducing inflammation in the soft tissues, have the unintended effect of dramatically inhibiting this type II collagen synthesis response. In this way, it appears that corticosteroids may interfere with the ability of the chondrocytes to respond appropriately to the disease process," Dr. MacLeod explains.

In addition, Dr. MacLeod, in collaboration with Dr. Nancy Burton-Wurster, has discovered that cartilage contains high levels of a unique form of fibronectin, a protein that is expressed in almost all tissues and is important in regulating how a cell interacts with its surrounding environment.

"Since fibronectin is known to be very important in other tissues of the body, we suspect that this unique form of fibronectin will have major functional significance here as well, although we don't yet know how," MacLeod says. "We're very excited by this discovery and are continuing our experiments to expand our knowledge base about the normal function of fibronectin in cartilage and how quantitative or qualitative changes in fibronectin expression of chondrocytes might contribute to the development of osteoarthritis." ■

Canine Eye Disease:

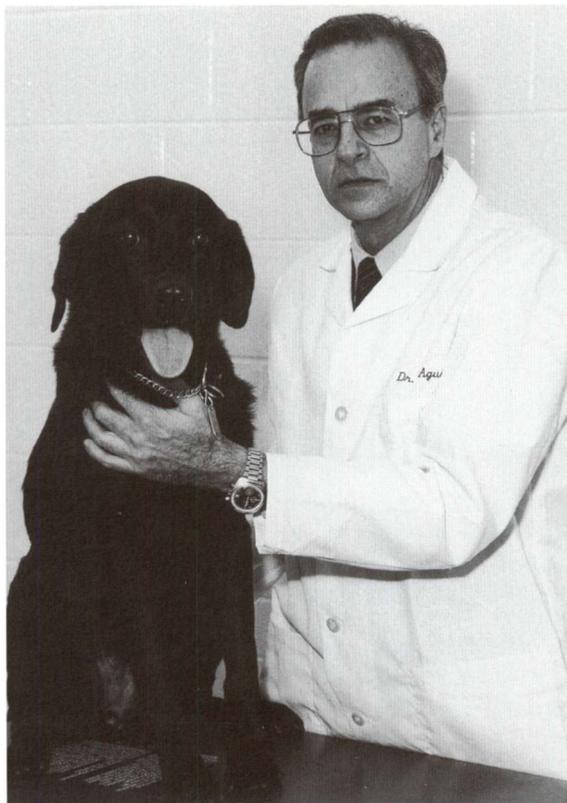
Progressive Rod-Cone Degeneration

Gustavo Aguirre, VMD, PhD and co-investigators Gregory Ackland, BVSc and Kunal Ray, PhD at the Baker Institute for Animal Health at Cornell's College of Veterinary Medicine, have completed the first phase of a progressive rod-cone degeneration study. Morris Animal Foundation, The Seeing Eye, Inc., and the Puget Sound Labrador Retriever Club cosponsored this study.

Problem

Progressive rod-cone degeneration (prcd) is included in a group of hereditary eye diseases called progressive retinal atrophy (PRA), common in many different breeds of dogs. Early studies showed that PRA was broadly consistent from breed to breed, but had unique characteristics within breeds. Dr. Aguirre's recent studies have defined several breed subtypes of PRA that are autosomal recessive diseases. In other words, a dog with the defective gene but that appears normal (called a carrier) can pass on the defect to some of its offspring. A dog that has the defective gene and displays the gene will pass the defect to its offspring.

PRA symptoms are similar, starting with reduced night vision, progressing to impaired day vision and eventually total



Dr. Gustavo Aguirre and his black labrador Friskie, a participant in the study

blindness. Although PRA symptoms are similar, Dr. Aguirre's studies have shown that subtypes affect dogs at different ages and are the result of different genetic mutations that cause unique physiological and biochemical differences.

Prcd usually appears in dogs at three to six years of age in many breeds such as retrievers, spaniels, poodles, and others. Efforts to control prcd through selective breeding programs have been ineffective because symptoms appear after the onset of breeding age, and early detection is difficult.

Dr. Aguirre's team set out to understand the gene mutation of prcd in order to develop a

blood-based DNA diagnostic test to identify genetically normal, affected, or carrier dogs at a young age.

Accomplishment

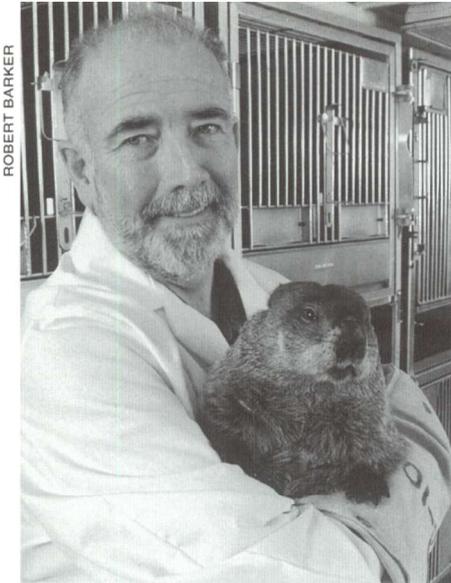
Dr. Aguirre's team has identified a genetic marker linked to prcd that will facilitate cloning the gene and will permit its use to develop a linkage-based DNA test.

These findings are an important step in identifying and defining the gene mutation in different breeds. According to Dr. Aguirre, "These findings will allow for a blood-based DNA test to distinguish affected carrier dogs from normal dogs at a young age. Carriers could then be allowed to breed with genetically normal dogs, to keep their genetically normal progeny as future breeding stock."

This strategy is currently in place for control of a different PRA subtype in Irish setters.

With funding from The Seeing Eye, Inc., Ross Seal, and Morris Animal Foundation, Dr. Aguirre has started the second phase of this investigation, entitled "Molecular Genetic Studies of Canine Progressive Rod-cone Degeneration (prcd) — Phase Two."

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ROBERT BARKER

Dr. Patrick Concannon and friend

Woodchucks and Human Medicine

Woodchucks undergo dramatic seasonal cycles that profoundly alter their reproductive activity, food intake, basal metabolism, body fat, and total body weight from season to season. During the year, for example, woodchucks vary their daily food intake by 2,000 percent, and both their body weight and metabolic rates increase up to 100 percent and then decline by 50 percent.

Patrick W. Concannon, PhD, an endocrinologist and reproductive biologist at the College of Veterinary Medicine, suspects that most mammals have similar annual cycles. These cycles, he believes, are driven by hormonal signals, synchronized by annual changes in photoperiod, and influence functions such as metabolism, reproduction, hair growth, and fat deposition.

To better understand annual cycles and how they might affect liver and fat metabolism,

liver carcinogenesis, thyroid function, brain function, and even obesity, Concannon has been experimenting with the circannual cycle of the woodchuck.

"We have found that woodchucks have very powerful endogenous cycles," Concannon said. "They undergo a series of seasonal changes that trigger one another and involve about a one-year cycle, even when there are no light cues to entrain them to 12 months."

He has determined that woodchuck cycles can be influenced by photoperiods—but only if nature is mimicked closely and the animals are exposed each day to a slightly longer or shorter day. By exposing the woodchucks to computer-controlled lighting, with gradually lengthening or shortening "days," Concannon has been able to entrain one group of woodchucks to a circannual cycle as if they were living in Australia or South America, and another group to an 8-month year.

Concannon's studies have been the first to conclusively demonstrate that the endogenous circannual cycle in these animals—and probably in all temperate species—is entrained by photoperiods and that daily changes in light are more critical than day length.

Now, he is turning to the hormonal controls of these annual cycles. Concannon is studying, for example, thyroid hormone activity, which regulates the animal's metabolism. "We now have a powerful animal model to study endogenous cycles in general, which we think will prove to have profound influences on many biological functions." ■

Zweig Committee 1997 Awards

The 1997 awards to researchers at the College of Veterinary Medicine from the Harry M. Zweig Memorial Fund for Equine Research total \$265,199.

New Awards

\$40,000 to Dwight Bowman, MS, PhD, associate professor of parasitology; Thomas Divers, DVM, associate professor of medicine; and Hussni Mohammed, BVSc, DPVM, MPVM, PhD, associate professor of epidemiology, for EPM: isolation of *S. faliculata*, PCR for sporocysts, and immunization of horses.

\$57,376 to Yung-Fu Chang, DVM, MS, PhD, assistant professor of microbiology, for vaccination against Lyme disease in the horse, part I, experimental induction of Lyme disease.

\$32,959 to Patrick Concannon, MS, PhD, senior research associate of physiology, and Peter Daels, DVM, PhD, assistant professor of theriogenology, for induction of reproductive function in anestrous mares using a dopamine antagonist.

\$20,000 to Alexander deLahunta, DVM, PhD, James Law Professor of Veterinary Anatomy; Thomas Divers, DVM, associate professor of medicine; and Hussni Mohammed, BVSc, DPVM, MPVM, PhD, associate professor of epidemiology, for an international conference at Cornell on equine neurology,

Generational Pride:

Families with Three Generations of Cornell DVMs

There is a certain pride that comes with graduation from the College of Veterinary Medicine at Cornell University. You can imagine the extraordinarily powerful feelings when that pride is multiplied by not one, not two, but three or more generations of DVM graduates in the same family. We'd like you to meet three such Cornell families.

The Brown Family

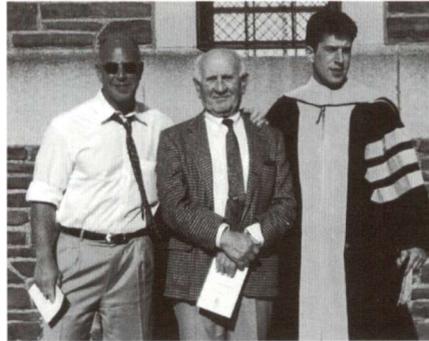
—Robert, DVM'36; Thomas, DVM'62; and Thomas, DVM'94

Now fully retired, Dr. Robert Brown spends time with his wife Elizabeth enjoying their home in the Adirondacks. The Plattsburgh Animal Hospital, a small animal practice that was begun by Robert, is now operated by his grandson Dr. Thomas J. Brown with two other veterinarians and a staff of six. Robert's son, Dr. Thomas F. Brown, who once ran the Plattsburgh clinic for several years, now runs an animal clinic in Antigua (begun by Robert when he first retired and traveled to the Caribbean).

"The combination of enjoying animals and people was perfect for me," says Robert, looking back on his veterinary career. "I never had a dull day."

Veterinary medicine is clearly a Brown tradition. Elizabeth's father, Roy Stephenson, also was a DVM, class of 1909, and her uncle, Hadley C. Stephenson, DVM'20, was a veterinary faculty member at Cornell in the 1920s.

Tom J., the youngest Brown veterinarian, has been practicing since 1994. He agrees with his grandfather Robert: "Every day is different. I truly enjoy the community interaction. It's a wonderful lifestyle."



Three generations of Ferber DVMs

The Ferber Family

—Robert, DVM'39; Alan, DVM'70; and Michael'96

North Shore Animal Hospital in Bayside, New York is a family affair. Begun in 1939 by Dr. Robert Ferber, recently retired, the full-service hospital is now run by his son Dr. Alan Ferber; they handle a yearly caseload of 10,000.

"Medicine and surgery have always held fascination for me," says Robert, explaining his enjoyment of his veterinary career.

Alan agrees. "It's exciting, hectic, and challenging. Veterinary medicine is in my blood."

Alan's son Dr. Michael Ferber is also one of the six veterinarians in the practice. "When you get out of vet school, you're green-with-a-capital-G," says Michael, the youngest Ferber DVM. "If you find a quality practice with experienced clinicians, they'll help you. My dad has been instrumental in teaching me."

The Ferbers have had four DVMs in the family thus far—Dr. Leonard Ferber, Cornell DVM'43, Robert's brother, passed away last October. He also had been part of the family practice, having joined Robert in the late 1940s.

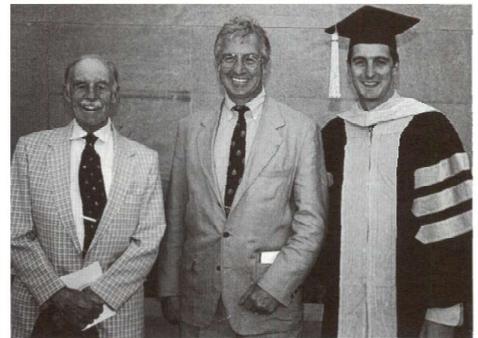
"There may be a fifth Ferber DVM yet," says Robert, speaking of his granddaughter Casey, now 14, who is interested in equine medicine as well as riding.

The Fredericks Family

—Arthur, DVM'31; Richard, DVM'69; and Russell, DVM'96

They all ride horses—quite well—and they're all veterinarians. Dr. Arthur Fredericks formally retired last summer from the North Shore Veterinary Hospital, a Long Island practice that he began in his grandfather's house in 1931.

"I never refused a call, not even in the middle of the night,"



Three generations of Fredericks DVMs

Arthur says. His vet practice, explains the man who was Master of the Smithtown Hunt for 25 years, originally cared for purebred cattle, race and foxhunt horses, pigs, dogs, and cats.

Today the practice, now run by Arthur's son Dr. Richard Fredericks, is a small-animal practice with five veterinarians.

Richard, whose two dogs are with him 24 hours a day, also has six horses and still plays polo, reminiscent of his undergrad days as captain of Cornell's polo team. "To be a good vet," Richard says, "you have to get your hands wet—make clinical decisions and take responsibility, without necessarily having someone there to back you up."

Arthur's son, Dr. Russell Fredericks practices in Florida at VCA Gulfview Animal Hospital; his future plans are with the family practice. "I grew up with veterinary medicine," Russell says. "Challenge and self-achievement—it's a lifetime adventure." ■



Cornell Launches New Animal Health Newsletters

Pioneered by the *Harvard Health Letter* nearly 20 years ago, the no-advertising, paid-subscription health newsletter field now has numerous entries, from such institutions as Johns Hopkins, the Mayo Clinic, and the University of California at Berkeley.

Now, the College of Veterinary Medicine will begin publishing two subscription newsletters, *CatWatch* and *DogWatch*, "the newsletters for cat people and dog people."

The newsletters were launched by Dean Franklin Loew and are administered by Assistant Dean Bonita Voiland; the faculty editors-in-chief are, for *DogWatch*, Katherine Houpt, VMD, PhD, professor of physiology and director of the Animal Behavior Clinic, and for *CatWatch*, James Richards, DVM, senior extension associate and director of the Cornell Feline Health Center.

The newsletters are successor publications to *Perspective on Cats*, a past publication of the Cornell Feline Health Center, and the *Animal Health Newsletter*, a former, multi-species publication of the College.

Each monthly issue will contain eight pages of articles on animal care, nutrition, behavior, and topics of interest to members of the general public who identify themselves as "cat people" or "dog people."

The first issue of *CatWatch* includes articles on feline leukemia, the right time to spay, effective ways to give your cat a pill, when your senior cat may need a professionally prescribed diet, and how many cats can be managed in a single household.

The first issue of *DogWatch* contains information about heartworm, obedience training, when your dog may need a professional diet, and great Danes as a breed.

Introductory subscriptions for recipients of the *Cornell Veterinary Medicine* newsletter are \$20. Alumni of the College will receive complimentary subscriptions of both publications, which begin in March 1997.

Revenues from *CatWatch* and *DogWatch* will eventually be substantial, according to Loew, and will help the College to offset the cuts in state funding that have become an almost annual experience. As well, the newsletters will help educate and inform cat and dog owners about the latest in veterinary care, animal behavior, animal nutrition, and related matters.

To sign up for your copy, return the attached reply card for the publication you prefer. ■

Alumni: You will receive a free subscription to both publications, unless you inform the office of public affairs that you do not wish to receive copies. **Alumni do not need to return reply cards.**



Cat and Dog Experts Needed!

The new subscription newsletter will need DVMs with canine and feline expertise to interview for articles in the newsletters. All articles are reviewed for content by each newsletter's editor-in-chief, the dean, and, depending on content, a member of the advisory board before going to print.

If you have a particular expertise you are willing to share, call or drop a note to:

Bonita Voiland, Assistant Dean
Box 39
College of Veterinary Medicine
Cornell University
Ithaca NY 14853-6401
email bsv2@cornell.edu
phone 607-253-3743

Awards of Unrestricted Alumni Funds

Twice each year, a joint committee of members of the general committee and College alumni meets to allocate unrestricted funds donated by alumni. These funds are distributed in the form of small competitive grants.

The primary goal of the program is to maintain the margin of excellence of the College of Veterinary Medicine, according to John F. Wooton, PhD, chair of the joint alumni/faculty committee on unrestricted funds.

Awards Approved in December 1996

\$2,896 to Michael Ball, DVM, resident in large animal medicine; Wayne Schwark, DVM, Msc, PhD, professor of pharmacology; Sang Shin, DVM, associate professor of microbiology; and William Rebhun, DVM, professor of medicine and ophthalmology, for continued evaluation of a 1-percent itraconazol/DMSO drug combination as a promising ophthalmic anti-fungal agent

\$6,623 to Peter R. Daels, DVM, PhD, assistant professor of theriogenology, for a stereomicroscope for teaching, research, and clinical service in theriogenology

\$6,640 to Todd Deppe, DVM, resident in small animal medicine; Kenneth W. Simpson, BVM&S, PhD, MRCVS, assistant professor of medicine; John F. Randolph, DVM, associate professor of medicine; and Sharon A. Center, DVM, associate professor of medicine, for prospective investigation of renal



ALEXIS WENSKI-ROBERTS

Purchased with one of the May awards: I-stat handheld blood chemistry analyzer

function and water balance in dogs with congenital porto-systemic vascular anomalies before and after surgical ligation

\$20,000 to Nathan Dykes, DVM, assistant professor of radiology, for ultrasound equipment for teaching veterinary students and for use in the Veterinary Medical Teaching Hospital

\$8,900 to James A. Flanders, DVM, associate professor of surgery, for flexible fiberscope for evaluation of small animal urinary tract and nasal disease

\$5,287 to Richard P. Hackett, Jr., DVM, MS, associate professor of surgery, for on-line resources for clinical teaching

\$7,700 to Francis Kallfelz, DVM, PhD, professor of medicine and director of the Veterinary Medical Teaching Hospital, for a pet loss/grief support line at the College of Veterinary Medicine

\$5,790 to Andrea Looney, DVM, resident in anesthesiology, for acupuncture analgesia for arthrotomy trial

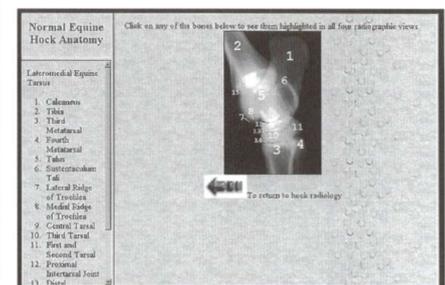
\$957.50 to Thomas J. Reimers, MS, PhD, professor of endocrinology, for normal concentrations of 17B estradiol in ferrets in various reproductive states

\$9,485 to Kenneth W. Simpson, BVM&S, PhD, MRCVS, assistant professor of medicine, for treatment of gastric helicobacteriosis in dogs

\$7,450 to Beth A. Valentine, DVM, PhD, assistant professor of pathology, for diagnosis and incidence of polysaccharide storage myopathy in draft horses

Awards Approved in May 1996

\$9,363 to Dorothy Ainsworth, DVM, MS, PhD, assistant professor of medicine; and William Rebhun, DVM, professor of medicine and ophthalmology, for an I-stat handheld blood chemistry analyzer



ALEXIS WENSKI-ROBERTS

Funded by one of the May awards: development of a database of digital images of radiographs from large and small animal species, for use in computerized teaching programs

\$4,524 to Christina Cable, DVM, resident in large animal surgery; Michael Ball, DVM, resident in large animal medicine; Susan Fubini, DVM, associate professor of surgery; and Wayne Schwark, DVM, Msc, PhD, professor of pharmacology, for research to determine an appropriate dose and dose interval for orally and rectally administered cisapride (a gastrointestinal prokinetic) in the horse

CONTINUED ON PAGE 12



COURTESY GEORGE KOLLIAS

Kudos to Cornellians

from American Association of Zoo Veterinarians

Last November, a group of 7 veterinary medical students, 2 faculty and more than 20 alumni from Cornell's College of Veterinary Medicine attended the International Conference of the American Association of Zoo Veterinarians in Puerto Vallarta, Mexico.

Scientific papers were presented by George Kollias, DVM, PhD, the Jay Hyman Professor of Wildlife Medicine; Noha Abou-Madi, MSc, DVM, a postdoctoral associate in wildlife medicine; Eric Linnetz '97, and a number of alumni.

Several awards were presented by the American Association of Zoo Veterinarians to students, faculty, and alumni.

Fourth-year student Eric Linnetz was selected as the recipient of the Student Manuscript Award for his paper and presentation entitled "High Prevalence of Gout at Necropsy in Giant Day Geckoes (*Phelsuma madagascariensis*) at the National Zoological Park."

Dr. Kollias accepted the American College of Zoological Medicine Manuscript Award for Dr. Ramiro Isaza, DVM'88 and currently a veterinarian at the Los Angeles Zoo, for the research paper they co-authored entitled "The Prevalence of Benzimidazole-Resistant Trichostrongyloid Nematodes in Antelope Collections in Florida," published in the *Journal of Zoo and Wildlife Medicine* in 1995.

Max Appel, DVM, PhD, professor of virology at the James A. Baker Institute for Animal Health, received an award for his meritorious research and contributions for the prevention of *Morbillivirus* infections in exotic carnivores. Richard J. Montali, DVM'64 and director of the pathology department at the National Zoological Park, accepted the award on Dr. Appel's behalf. He cited Dr. Appel's work in isolating the strain of canine distemper found in red pandas and black-footed ferrets and in helping

Part of the group of Cornellians at the conference:

(front row, left to right)

Dr. Vicki Clyde (small animal intern, Cornell 1987-88), Milwaukee County Zoo, Milwaukee, WI; Dr. Stephen Osofsky, DVM'89, Biodiversity Program Fellow, U.S. Agency for International Development, Washington, D.C.; Dr. Della Garell, DVM'88, Cheyenne Mountain Zoo, Colorado Springs, CO; Dr. George Kollias, Cornell's Jay Hyman Professor of Wildlife Medicine. (back row, left to right) Dr. Ilse Stalis, DVM'88, pathology department, San Diego Zoo; Christine Petersen '98; Heather Nevill '98; Rachel Smith '98; Dr. Christine Miller, DVM'85, Miami Metro Zoo, Miami, FL; Dr. Mary Denver, DVM'92, department of small animal surgery and medicine, Auburn University, Auburn, Alabama; Dr. Roberta Wallace, DVM'85, Milwaukee County Zoo, Milwaukee, WI; Dr. Peregrine Wolff, DVM'84, Walt Disney World Animal Programs, Lake Buena Vista, FL.

provide an experimental, inactivated vaccine to save them and other carnivore species from canine distemper. Dr. Montali also spoke about Dr. Appel's key role in identifying the emergence of *Morbilliviruses* in a new host range — most notably the canine distemper outbreaks in captive, exotic felids in North America and the canine distemper epizootic in lions and other African carnivores in the Serengeti.

The Association also presented a certificate of appreciation to Cornell's James A. Baker Institute for Animal Health for its sustained support and contributions to the study of infectious diseases of zoological species:

"Excepting the sequelae resulting from the Wednesday night banquet," explains Dr. Kollias, smiling, "the meeting was excellent and provided students and faculty an opportunity to share information and interact with colleagues from around the world." ■

AWARDS CONTINUED FROM PAGE 10

\$8,185 to Yung-Fu Chang, DVM, MS, PhD, assistant professor of microbiology; Sang Shin, DVM, associate professor of microbiology; and Donald Lein, DVM, PhD, associate professor of theriogenology and director of the diagnostic laboratory, for the development of diagnostic tools for dogs and horses infected by *Ehrlichia* species, an emerging infectious disease of animals and humans

\$4,808 to Christopher Davies, DVM, PhD, assistant professor of immunology; Douglas Antczak, VMD, PhD, Dorothy Havemeyer McConville Professor of Equine Medicine and director of the James A. Baker Institute for Animal Health; and Donald Schlafer, DVM, MS, PhD, associate professor of pathology, for a study of the genetic factors influencing retained placenta in cattle

\$7,780 to Nathan Dykes, DVM, assistant professor of radiology; Normand Ducharme, DMV, MSc, professor of surgery; Amy Yeager, DVM, staff veterinarian in the Veterinary Medical Teaching Hospital; and Alan Nixon, BVSc, MS, associate professor of surgery, for developing a digital image database of normal and abnormal radiographs from large and small animal species for use in computerized teaching programs

\$1,000 to Kathy Earnest-Koons, graduate research assistant in avian and aquatic animal medicine; and Margaret Barr, DVM, PhD, senior research associate in veterinary medicine, for support in funding transport of textbooks from Cornell's College of Veterinary Medicine to veterinary colleges in Uganda, Uruguay, and Kenya

\$1,035.29 to Kathy Earnest-Koons, graduate research assistant in avian and aquatic animal medicine; and Paul Bowser, MS, PhD, professor of aquatic animal medicine, for additional specimens and glass slides for a proposed course on gross and microscopic anatomy and histology and physiology of fish

\$5,500 to James Farese, DVM, resident in small animal medicine; and Rory Todhunter, BVSc, MS, PhD, assistant professor of surgery, for the evaluation of computed tomography in the quantitative assessment and structural analysis of the dysplastic canine hip and pelvis

\$5,240 to Anna Gelzer, DVM, resident in cardiology; and Sydney Moise, DVM, MS, associate professor of cardiology, for research on the effects of fixed and rate-responsive pacing on ventricular arrhythmias in dogs — to determine if specific programmed pacing can decrease the frequency of ventricular arrhythmias in dogs

\$7,560 to Ruben Gonzalez, DVM, MPVM, PhD, senior research associate in microbiology; and Ariel Rivas, DVM, MS, PhD, postdoctoral associate in quality milk production services, for research on rapid diagnosis of intramammary infections due to *Mycoplasma bovis* and *Streptococcus agalactiae* based on polymerase chain reaction (PCR)

\$2,932.85 to George Kollias, DVM, PhD, Jay Hyman Professor of Wildlife Medicine, for a modular resource learning station for avian and reptilian clinical anatomy



CHARLES HARRINGTON

Dr. Thomas Kern (left) and Emily MacInnis '97 (right), with wire-haired dachshund Oscar—demonstrating an ocular exam with a laser indirect ophthalmoscope and video adapter, purchased with one of the May awards

\$3,847 to Paula Moon, DVM, assistant professor of anesthesiology; Hollis Erb, DVM, MS, PhD, professor of epidemiology; John Ludders, DVM, associate professor of anesthesiology; and Robin Gleed, BVSc, MRCVS, associate professor of anesthesiology, for risk-factor analysis of neonatal mortality after cesarean section in the dog

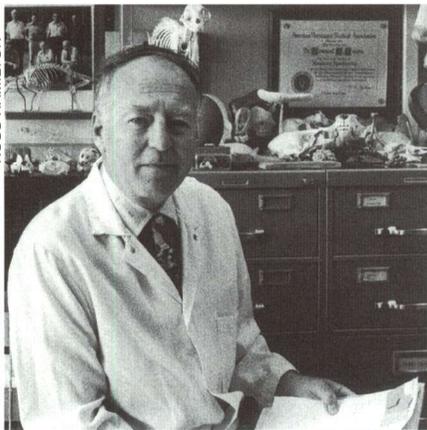
\$1,011 to Shari Renaud-Farrell, VT, BS, cardiology/ultrasound technician; Anna Gelzer, DVM, resident in cardiology; and Sydney Moise, DVM, MS, associate professor of cardiology, for an indirect blood pressure machine for cardiac patients

\$14,800 to Ronald C. Riis, DVM, MS, associate professor of ophthalmology; Thomas J. Kern, DVM, associate professor of ophthalmology; and William Rebhun, DVM, professor of medicine and ophthalmology, video adapter for laser indirect ophthalmoscope for video recording of ocular examinations

\$2,500 to Wayne Schwark, DVM, MSc, PhD, professor of pharmacology; and Lauren Trepanier, DVM, graduate research assistant in pharmacology, for evaluation of dose management and therapeutic serum drug concentrations in epileptic dogs treated with bromide ■

PEOPLE, HONORS, AND AWARDS

Gustavo Aguirre, VMD, PhD, Alfred H. Caspary Professor of Ophthalmology, has been selected as one of three recipients of an American Kennel Club Excellence in Canine Research Award from the American Veterinary Medical Foundation. The award will be presented at the 1997 meeting of the American College of Veterinary Internal Medicine, in Orlando, Florida, in May 1997.

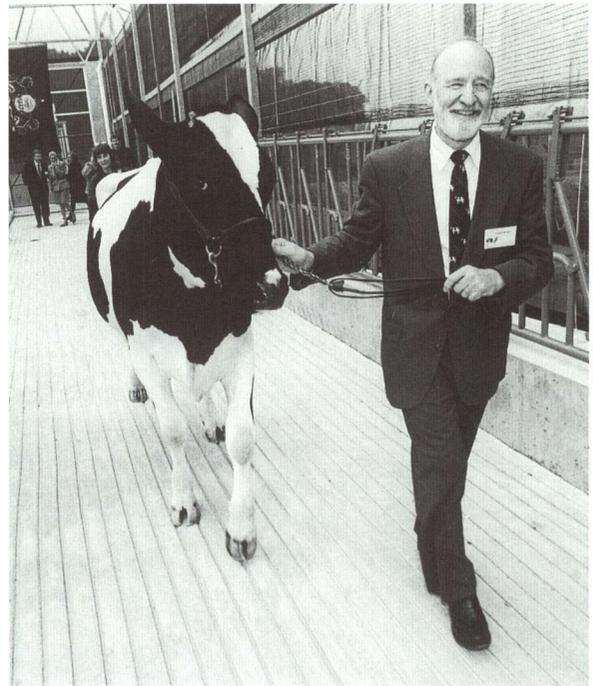


Dr. Howard Evans

Howard E. Evans, PhD, professor emeritus of veterinary and comparative anatomy, has authored *Anatomy of the Budgerigar and Other Birds*, a chapter in the book *Diseases of Cage and Aviary Birds*, third edition, edited by Walter J. Rosskopf, Jr., DVM and Richard W. Woerpel, MS, DVM, published in 1996 by Williams & Wilkins, Baltimore.

David E. Harling, DVM'55, has received board certification as a diplomate of the American College of Veterinary Ophthalmologists. He is also a diplomate of the American Board of Veterinary Practitioners, canine and feline species. He serves as adjunct faculty in companion animal and special species at North Carolina State College of Veterinary Medicine in Raleigh and is in practice at Animal Eye Care of Greensboro.

Robert Marshak, DVM, a graduate of the Class of 1945 at Cornell's College of Veterinary Medicine, was honored by the University of Pennsylvania School of Veterinary Medicine, which named its new 200-head dairy barn for him. Dr. Marshak, emeritus professor of medicine at the University of Pennsylvania School of Veterinary Medicine, served as dean of the school from 1973 to 1987.



Dr. Robert Marshak

Peter Nathanielsz, MB, PhD, ScD, MD, James Law Professor of Reproductive Physiology has been selected by the Society of Perinatal Obstetricians as its singular 1997 honorary member for service to the field of perinatal medicine. He also has been invited by the Perinatal Research Society to deliver its 1997 Liley Lecture.

Eric Rosario joined the College of Veterinary Medicine in February as director of development. He has varied institutional advancement experience at Cornell, serving most recently as assistant director of development for the College of Agriculture and Life Sciences. His professional affiliations include the Council for the Advancement and Support of Education and the National Agriculture Alumni and Development Association. He first set foot on the Hill in 1986 as a freshman in the College of Arts and Sciences. He is co-founder and vice president of the Latino Civic Association of Tompkins County; an appointee to the

Ithaca Economic Development Committee; and a past member of the Financial Aid Committee and mentor for students at Cornell's Summer College.

Janet M. Scarlett, DVM, MPH, PhD, has resigned from her position as associate dean for student services, effective February 15, 1997, to return to



Dr. Janet Scarlett

full-time teaching and research responsibilities as an associate professor of epidemiology in the College's department of clinical sciences.

RUSS HAMILTON

COURTESY UNIVERSITY OF PENNSYLVANIA

UNIVERSITY PHOTOGRAPHY

PEOPLE CONTINUED FROM PAGE 13

"Dr. Scarlett has provided strong leadership and support to the College community, particularly to our students," says Donald Smith, acting dean of the College. "We express our sincere gratitude and wish her well in her professorial and research activities."

Peter Ostrum, DVM '84 and a veterinarian in Lowville, NY, recently found himself on the pages of *People* magazine. In 1971, Ostrum, then a 13-year-old, starred in the film *Willy Wonka and the Chocolate Factory*. *People* published the Ostrum story in its November 25, 1996 issue, on the film's rerelease, marking its 25th anniversary.

William C. Wagner, DVM '56 and PhD '68, was the recipient of the 1995 David E. Bartlett Lecture Award from the American College of Theriogenologists and the Society for Theriogenology. The award—a statue of a sacred bull—is given in recognition of outstanding career contributions to the art and science of theriogenology. Dr. Wagner's award statue is displayed in the Centennial Room in the Veterinary Medical Center at Cornell.

"I had the opportunity to be associated with many leaders in animal reproduction who were my mentors and colleagues here at Cornell during the early part of my career," says Dr. Wagner, the National Program Leader for Veterinary Medicine at the US Department of Agriculture's Cooperative State Research, Education, and Extension Service (CSREES) in Washington, DC.

Michael J. Wildenstein, farrier instructor at the Veterinary

Medical Teaching Hospital, has authored an article entitled "The Fetlock Support Shoe," published in the magazine *Hoofcare & Lameness*, Issue No. 67.

In Memoriam

Girard H. Hottendorf, DVM '61, died in November 1996 at his home in Mt. Pleasant, South Carolina, after a long illness. He retired in 1993 from the Medical University of South Carolina, in Charleston, where he had been a professor of pathology and comparative medicine. He also had been associated with Bristol-Meyers Co. in Syracuse, New York, from 1966 until 1986, when he retired from his position as associate director of pathology and toxicology. He held a PhD in veterinary pathology from the University of Connecticut and was an elected member of the American College of Veterinary Pathologists.

Melvin Foster Mather, DVM '63, died in March 1996 at his home in Henrietta, New York. At the time of his death, he was the northeast animal care field inspector for the US Department of Agriculture in Rochester. Prior to that, he was assistant supervisor for regulation and enforcement of animal care for the southeast sector of the USDA, in Tampa, Florida. He also had served with the Connecticut Department of Agriculture. He owned and operated the Durham Veterinary Hospital in Durham, Connecticut, until 1979, and was self-employed in farm animal veterinary services until 1985. He was an instructor at Cornell's College of Veterinary Medicine from 1963 to 1965, in the department of large animal medicine, obstetrics, and surgery.

Robert B. McClelland, DVM '34, died in December 1996 at his home in Kenmore, New York, after a long illness. A practitioner in the Buffalo area, he was a member and past president of the New York State Veterinary Medical Society and a member of the Western New York Veterinary Medical Association. He was named New York State Veterinarian of the Year in 1972; he received the NYSVMS gold centennial medallion in 1990 for his life-long contributions to the profession of veterinary medicine; he received the NYSVMS Distinguished Life Service Award in 1981. He was named a hospital director emeritus by the board of directors of the American Animal Hospital Association in 1982, one of the first six members so honored. He was recipient of the Practitioner Research Award from the American Veterinary Medical Association in 1967, for his intensive survey of methods for immunizing dogs against distemper.

Harold C. Phelps, DVM '42, died in November 1996 at his home in Owego, NY. Known in his community as "Doc" Phelps, he practiced veterinary medicine for 45 years in the Owego area, retiring in 1989. He was a longtime member of the Owego community and active in numerous civic organizations. Dr. Phelps was a past president of the New York State Veterinary Medical Society. He served as a Captain in the US Army during World War II in the 20th Battalion Medical Detachment, 475th Infantry Regiment; Dr. Phelps received the Bronze Star for Meritorious Achievement. ■

ZWEIG AWARDS

CONTINUED FROM PAGE 7

to be held in honor of the late Dr. John Cummings and his many contributions to the field.

Renewed Awards

\$43,711 to Douglas Antczak, VMD, PhD, Dorothy Havemeyer McConville Professor of Equine Medicine and director of the James A. Baker Institute for Animal Health, and Christopher Davies, DVM, PhD, assistant professor of immunology, for a horse genome project.

\$61,453 to Alan Nixon, BVSc, MS, associate professor of surgery, for research about growth factor gene expression patterns in the repair of equine articular defects.

Revised Awards

\$9,700 to Douglas McGregor, MD, D Phil, professor of immunology and associate dean for research and graduate education, for career development training for equine researchers. ■

Recent Gifts to the College**Notable Gifts**

The estate of Joseph Thomas, DVM '29, gifted the College with a grand \$850,000 for the Class of 1929 Scholarship Fund.

The H.H. Dukes & Mary Dukes Library Fund, valued at \$165,000, has been established as an endowment for the purchase of books and periodicals in the physiological and biomedical sciences. Dr. H. Hugh Dukes, a professor and chair of the College's department of physiology from 1932 to his

retirement in 1960, was renowned for his innovative lecture-demonstration method of teaching.

The Mrs. Cheever Porter Foundation made a \$50,000 grant to the College designated to purchase a genetic analyzer for the James A. Baker Institute for Animal Health.

Corporate Awards

Texaco Foundation awarded \$15,000 to Cornell's Institute for Comparative and Environmental Toxicology—for promoting educational opportunities in environmental toxicology.

Lloyd's of London provided a \$1,000 scholarship on behalf of Patricia A. Erickson '97.

Bequests from Grateful Clients of Alumni

The Clark J. and Martha B. Baker Scholarship, valued at nearly \$500,000, has been established by the estate of Clark J. and Martha B. Baker. The Bakers, who owned a wholesale florist business in Buffalo, New York, had been longtime, happy clients of veterinarian Guy Tillou, DVM '78, who inspired their gift.

The Mary Essaian Scholarship, valued at \$100,000, was established by the estate of Mary Essaian. The gift to the College was inspired by Ms. Essaian's friend and veterinarian, John Kazmierczak, DVM '72.

The estate of Adelaide Millea presented the College with an unrestricted gift that had been inspired by veterinarian Robert Milkey, DVM '52, of Granby, Connecticut. ■

You and Estate and Financial Planning

The College is sponsoring a free seminar during March Conference for alumni and friends:

WIN-WIN: You and Estate and Financial Planning**Friday, March 21, 1997****4 to 6 pm****Centennial Room****Veterinary Medical Center**

Win-Win promises to be interesting and informative. Renowned speaker and financial expert Elwyn Voss, BS '64, MS '70, will help you learn how to use assets to generate income for yourself and heirs, and help Cornell (or another favorite charitable organization) in the process. You will walk through an exercise—discretely, without divulging personal information—to demonstrate how your current estate plan matches your personal and financial goals.

This is an informational, not a sales, seminar. Feel free to bring your own financial advisor if you so desire. Space is limited. RSVP to Nancy Gehres in the College's office of public affairs: 607-253-3747. ■

CORNELL
Veterinary Medicine

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Calendar of Events

Events are at Cornell unless otherwise noted. Call 607-253-3200 with questions about continuing education programs; for information about other events, call 607-253-3744.

March

- 21-22 DACC Spring Meeting
- 21-24 Annual Conference for Veterinarians
- 24-25 Veterinary Education Symposium
- 24-26 College Advisory Council meeting

April

- 12 31st Annual Open House

May

- 25 Commencement

June

- 5-8 Reunion Weekend



ALEXIS WENSKI-ROBERTS

On a Historical Note

The Town of Ithaca is marking its 175th anniversary by erecting commemorative markers at places of local historical interest — three at Cornell. The marker shown above, installed on Caldwell Road, commemorates the history of the College of Veterinary Medicine. Another marker notes the history of the College of Agricultural and Life Sciences, and a third has been placed on Judd Falls Road near Campus Road in honor of the founding of Cornell University.