School Begins to Modernize and Expand Facilities

The UC Davis School of Veterinary Medicine is engaged in efforts to regain full accreditation from the American Veterinary Medical Association by replacing facilities identified as deficient, including 50-year-old Haring Hall. Construction is underway for a student laboratory facility and lecture auditorium that will be completed this fall. Planning and fundraising continue for a series of new instructional and research buildings that are vital to the educational programs of the school and to veterinary medicine in California.

Governor Approves Funding for Key Building Project

Governor Gray Davis and Senator Richard Alarcón proposed an economic stimulus package, announced in January at UC Davis, that included accelerated funding for new school facilities. It was eventually incorporated into AB 16 (Hertzberg, D-Van Nuys) and passed by the legislature.

On April 26 Governor Davis signed the bill, which will not only place a K-12 and higher education bond proposal on the ballot in November 2002 and March 2004, but also will immediately provide $650 million for school construction across California.

One construction project included in the package is a new $77 million building for the School of Veterinary Cougars, deer, bighorn sheep and humans, page 5

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- Cougars, deer, bighorn sheep and humans, page 5
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The governor announced his plan to accelerate support for new school facilities during a press conference last January at the site of the new Veterinary Medicine Laboratory Facility, now under construction southwest of the Veterinary Medical Teaching Hospital.

Medicine. The building, referred to as “Vet Med 3A” during the planning process, is a key component of a $354 million long-range facilities plan for the school, designed to restore full accreditation status and prepare for enrollment and academic growth anticipated in the next decade.

The campus already has received $11 million in planning and infrastructure improvement money from the state for this project.

“The governor’s visionary economic stimulus package is good news for the University of California and for the State of California,” says UC Davis Chancellor Larry Vanderhoef. “We are grateful at UC Davis that the new facility for the School of Veterinary Medicine has been included in this plan and eager to play a role in the revitalization of California’s economy.”

School of Veterinary Medicine Dean Bennie Osburn says, “Veterinary Medicine 3A forms the cornerstone for restoration of our full accreditation. This public investment will strengthen the school’s ongoing ability to offer Californians access to veterinary care for pets, livestock and poultry; protection of public health and food safety; and other activities benefiting animal, human and environmental health. We thank Governor Davis for his recognition of our school and advocacy of this bold solution for veterinary education.”

The Vet Med 3A building, a 125,000-square-foot teaching, research and clinical facility, will be located northwest of the Veterinary Medical Teaching Hospital (VMTH). It will house teaching laboratories, faculty research laboratories, research support services, academic offices, clinical services and administrative offices. The building is planned for completion in 2005.

The need for improved teaching and research facilities for the veterinary school was cited in 1998 by the American Veterinary Medical Association’s accreditation committee when it visited the school for a routine accreditation review. While the school passed the review with flying colors in all other areas, it was placed on “limited accreditation”—a probationary status—for its facilities shortfalls.

To meet this need for new and improved facilities, several other construction projects near the VMTH are either underway or pending.

- The 63,000-square-foot Veterinary Medicine Laboratory Facility is now under construction on Garrod Drive, southwest of the VMTH. It will be completed in fall 2002 and will include instructional surgery suites for veterinary students, animal-holding facilities for both large and small animals, a facility for canine blood donors and an instructional lecture hall. It also will have exercise runs for dogs and other small animals, plus a pasture for large animals.

- The campus is funding a new $25 million Veterinary Medicine Instructional Facility, containing classrooms, laboratories, teaching facilities and a student learning center. This 59,550-square-foot building will be located northeast of the VMTH, complementing the adjacent Veterinary Medicine 3A building. It is slated for completion in 2004.

- Construction will begin in early 2003 on a 20,000-square-foot Equine Athletic Performance Laboratory on the east side of Garrod Drive, just south of the VMTH. The single-story building, planned for completion in 2004, will include a laboratory with three horse-size treadmills, an automated walker for exercising horses, a round pen and large-animal holding facilities.

- A future $9 million Veterinary Medical Teaching Hospital expansion, designed to better serve clients and their animals, is on the drawing boards.

Governor Approves Funding
Continued from page 1

“We thank Governor Davis for his recognition of our school and advocacy of this bold solution for veterinary education.”
Dallas Hyde, an authority on the biology of asthma and other lung diseases, was named in March as the new director of the California Regional Primate Research Center (CRPRC). Dr. Hyde has served as interim director of the center since 2000, and as associate dean for research and graduate education for the School of Veterinary Medicine since 1997.

In addition to his administrative role, Dr. Hyde maintains an active research program. He is part of a UC Davis team that has conducted pioneering studies on the relationship between air pollution, common allergies, and asthma, using the rhesus macaque monkey as a model.

In 2000, the team showed for the first time that occasional exposure to the air pollutant ozone can change how the lungs of young rhesus monkeys develop and lead to a disease similar to childhood asthma in humans. Dr. Hyde’s investigations focus on the role of white blood cells in injury and repair of the tissue that lines the lungs, especially in relation to asthma, pulmonary fibrosis and infectious diseases.

“I am eager to move my research laboratory to join the team of superb investigators at the primate center and Center for Comparative Medicine,” Dr. Hyde said. “It is a true honor to provide leadership to programs of excellence in infectious diseases, like vaccine development to prevent HIV transmission; neurologic disorders, like autism and Alzheimer’s disease; and lung diseases, like asthma. Our new focus on childhood health research is aimed at providing the missing science in primates to enhance medical treatments of AIDS, autism and asthma in children.”

After earning a doctoral degree in anatomy from UC Davis in 1976, Dr. Hyde served in the College of Veterinary Medicine at the University of Florida, Gainesville, until 1979, when he joined the UC Davis faculty. He assumes permanent leadership of the primate center just as the 40-year-old research unit is poised for growth and improvements.

UC Davis is beginning to expand the CRPRC, which is slated to grow from its current population of 3,800 monkeys to about 5,000 monkeys. Plans call for construction of new field corrals and smaller outdoor enclosures, as well as a research office building and trailer, and a rodent facility for the Center for Comparative Medicine.

The CRPRC is one of eight regional primate centers supported by the National Institutes of Health to conduct research in selected areas related to human health. To support its research program, the center maintains a large primate-breeding program. The CRPRC also provides monkeys, mostly rhesus macaques, to research programs at seven UC campuses, as well as other institutions nationwide. The programs include studies of cancer, asthma, AIDS, osteoporosis, neurodegenerative diseases, and infant development and nutrition.

### CCAH GROUNDBREAKING

**HUMANS GET ASSIST FROM “BEST FRIEND”**

A group of enthusiastic dogs was invited to help human representatives of the UC Davis School of Veterinary Medicine officially break ground for an expansion of the Center for Companion Animal Health.

Several dozen other canine, avian, feline and reptilian guests also attended the October 18 event with approximately 300 human friends of the school.

The privately funded Center for Companion Animal Health, established in 1992, supports infectious, cancerous, and nutritional diseases, as well as health problems of other types. It will be the largest center of its kind in the world, and a model for similar units at other institutions.

“This new building, when joined with existing facilities, will complete the physical development of the Center for Companion Animal Health,” says Niels Pedersen, director. “The center will then be able to concentrate fully on its primary mission of improving the health of small companion animals through studies into the cause and prevention of naturally occurring genetic, infectious, cancerous, and nutritional diseases, as well as health problems of other types. It will be the largest center of its kind in the world, and a model for similar units at other institutions.”

The expanded 33,000-square-foot facility containing laboratories, clinical cancer treatment areas and teaching space was funded through private gifts.

Scheduled for completion in 2003, the $17 million center will include the Paul C. and Borghild T. Petersen Radiation Oncology Unit, Maddie’s Fund Medical Oncology Unit, George and Phyllis Miller Feline Health Unit, Koret Foundation Comparative Genomics Laboratory, Ingrid and Reuben Hills III Canine Health Unit, Companion Animal Physical Therapy Unit, and Companion Animal Courtyard and Memorial Gardens.
CAT SCRATCH DISEASE
TICKS CARRY BARTONELLA

Bartonella henselae, the bacterial agent of “cat scratch” disease, usually causes a mild fever in humans but can be serious or fatal in patients with a weakened immune system. At present there are indications, but no clear evidence, that humans can develop the disease from tick bites.

Bruno Chomel, professor of veterinary medicine at UC Davis, and graduate student Chao-Chin Chang, working with colleagues from the Santa Clara County Department of Health Services, tested ticks collected in Santa Clara County for Bartonella DNA. They reported in the April 2001 Journal of Clinical Microbiology that almost 20 percent of the collected ticks were infected with Bartonella species found in cats, dogs, cattle and other animals.

“At the least we can say that ticks carry Bartonella DNA and could be potential vectors,” says Dr. Chomel. More research is needed to find out the role of ticks and other animals in transmitting these bacteria between animals and to humans, he says.

USDA GRANT SUPPORTS INTERACTIVE CASE STUDIES
WEB DELIVERS LESSONS IN INTERNATIONAL ANIMAL HEALTH

Three new Web-based lessons encourage veterinary students to “travel” to international destinations, test their diagnostic skills, and explore new career paths in livestock and wildlife health topics.

Actual cases, including veterinary student experiences sponsored by the school’s Office of International Programs, are the basis of the following problem-solving modules:

- Follow Saul Morfin (DVM ’99) as he unravels a costly reproduction problem at a dairy cooperative in Mexico.
- Trace the cause of sick horses and cattle found by Jonathan Arzt (DVM/MPVM ’99) on mysterious Rapa Nui (Easter Island).
- Join veterinarian Dewald Keet at Kruger National Park, Republic of South Africa, to improve management of bovine tuberculosis in Cape buffalo and wildlife.

Students are guided through the processes of initial investigation, obtaining a medical history, examination, diagnosis and development of a treatment plan. The case studies URL is http://www.calf.vetmed.ucdavis.edu/html/intl.html.

Supported by the USDA Higher Education Challenge Grants Program, the exercises were developed by school faculty experts and collaborating veterinarians and scientists in Mexico, South America and Africa. Patricia Conrad, principal investigator, supervised the Kruger National Park lesson. Technical components—video clips, maps, clinical images, and an interactive question-and-answer format—were crafted for the modules by staff members of the school’s Computer-Assisted Learning Facility.

International Programs Director David Hird says, “Travel broadens horizons, and all veterinarians face novel situations. These exercises provide engaging case material on a variety of topics and offer problem-solving tools that students can use throughout their careers.”

Plans are underway with Wildlife Information Network, a non-profit organization based in the United Kingdom, to produce compact discs of the program for distribution to wildlife veterinarians and veterinary schools worldwide.

UC DAVIS SURVEY
CATS TOP DOGS AS COMPANIONS FOR AIDS PATIENTS

Cats beat out their canine counterparts when it comes to preventing loneliness and providing important social and emotional support for men with AIDS, according to a recent study by School of Veterinary Medicine researchers.

Through a survey of male pet owners with AIDS, animal behaviorist and sociologist Lynette Hart and colleagues found that cats did a better job of evoking affection, making their owners feel needed and serving as a source of stability.

“Much of the pleasure of dog ownership is associated with physical activities like taking walks or traveling, which can be too physically demanding for some people with AIDS,” Dr. Hart says. “It may well be that cats provide similar comfort and companionship, with less effort, and they can be kept entirely indoors.”

The survey is based on the responses of 60 male pet owners with AIDS, who replied to a questionnaire sent to 500 clients of Pets Are Wonderful Support (PAWS), a San Francisco community organization that provides pet-care assistance.

“Survey responses suggest that cats complement, rather than replace, support provided by relationships with friends and family,” Dr. Hart adds. This study builds on a growing body of research indicating that companion animals offer people strong social and psychological support that in some instances also translates into overall health benefits.

Emotional support is of particular concern for AIDS patients, who may be dealing with shortened life expectancy, social stigma, and diminishing social and financial resources. For example, previous research indicates that HIV-positive men who are frequently depressed are at higher risk of developing clinical AIDS.
Unique Study to Examine Cougars, Deer, Sheep—and People

A first-of-its-kind study of mountain lions and their interactions with deer, bighorn sheep and humans is underway in the Peninsular Ranges of Southern California, a vast study area that includes two state parks.

Walter Boyce, codirector of the Wildlife Health Center at the UC Davis School of Veterinary Medicine, is coordinating the study, which examines the relationship between lions and deer, lions and bighorn sheep, and lions and people—the goal is to formulate recommendations that ensure human safety and the management of the deer, bighorn sheep and lion populations.

The study is being conducted by researchers from UC Davis in conjunction with the California Department of Parks and Recreation, the California Department of Fish and Game and the Zoological Society of San Diego.

The study area stretches about 100 miles, from I-10 near Palm Springs to the Mexican border south of I-8. The initial focus will be in 30,000 acres of Cuyamaca Rancho State Park, and later will expand to the 600,000 acres of Anza-Borrego Desert State Park.

As part of the study, which will last a minimum of three years, cougars and deer are being captured and affixed with radio collars that will help scientists keep track of their travels and, in the case of deer, learn if they have fallen prey to lions. Bighorn sheep in the area already are affixed with radio collars, and more will be collared in the near future.

Previous studies have examined relationships between lions and other mammals, including humans, but this is the first study to examine the complex interactions of all these species.

“Solid scientific information is the key to striking a balance between the needs of wildlife and people,” says Dr. Boyce. “Southern California, with its diverse wildlife and rapidly expanding human population, is the ideal spot to look for answers for how people and wildlife can co-exist.”

The study includes several goals:

- Estimating mountain lion population size, home ranges and seasonal movements.
- Quantifying lion predation rates on deer and bighorn sheep.
- Identifying activity patterns of lions in relation to people, deer and bighorn sheep.
- Investigating lion-human interactions.
- Using the data compiled to develop and test hypotheses and formulate management recommendations.

Human-lion interactions will be studied primarily in the Cuyamaca Rancho State Park region, a popular area for camping, hiking, mountain biking and horseback riding. Since most of these activities take place on established trails or campgrounds, a variety of methods (such as infrared motion sensors, 35 mm cameras, surveys and observations) will be used to document and evaluate lion activity and behavior near areas of concentrated human activity.

Over the past several years, there have been a number of human-lion encounters in the area—one resulted in the death of a woman in Cuyamaca Rancho State Park in 1994. A number of lions have been destroyed for public safety reasons resulting from incidents involving humans.

“We feel this is a very important study,” says James Burke, park superintendent for Cuyamaca Rancho State Park. “We hope the knowledge gathered from it will enable us to make better management decisions when it comes to protecting both mountain lions and park visitors.”

Officials believe the factors most likely responsible for the encounters include the presence of a large deer population—prey for the lions; a relatively large number of lions; and increasing human recreation in the area. As recreation increases, officials believe that the incidence of encounters with lions also will increase.

Steven Torres, senior wildlife biologist for the Department of Fish and Game and the coordinator of the department’s bighorn sheep and mountain lion programs, says the study results could have important implications for California in the 21st century. “The study area appears to have lions in higher densities than we’ve seen elsewhere,” Torres says. “When you combine that with the unusually high number of human-lion encounters that have been documented there, it makes for a rather unique situation.

“But as more and more people move into mountain-lion habitat, we would expect to see increased lion-human encounters in other areas of the state,” he says. “For that reason, the data we’re gathering here will have applications elsewhere.”

Bighorn sheep in the Peninsular Ranges are currently listed as federally endangered. Project collaborators have determined that mountain lions are the primary threat to the bighorn sheep there. From 1992 to 1998, lions were responsible for 69 percent of all deaths among radio-collared Peninsular bighorn sheep. Substantial new research will be conducted on the bighorn sheep and their relationship to mountain lions by Esther Rubin, a Millennium Fellow at the Zoological Society of San Diego.

The study is being funded by California State Parks, the California Dept. of Fish and Game, the UC Davis Wildlife Health Center and the Zoological Society of San Diego. Financial support for subsequent study will be sought from public and private sources.
Karly Hodge spent five weeks during the summer of 2000 at Van Exel Dairy in Lodi working with Hank and Caroline Van Exel, herdsman Anthony Reis and food animal veterinarian Ann Scearce (’99) of Fremont Veterinary Clinic. Hodge learned to palpate cattle to check for pregnancy and to artificially inseminate. She monitored the maternity pen to make sure the newborn calves got colostrum, and bottle fed calves with frozen-thawed colostrum. “The dairy enjoyed having a veterinary student who took a special interest in the cows in the hospital pen,” says Hodge. “I gave oral medications with the large pilling gun. It is harder than it looks—I had the bruises to prove it.”

Until this year Mark Langheinrich had never been on a dairy. Lisa Branstad had spent time with horses, but not cows. Sabino Herrera grew up in the inner city of Los Angeles. Most new veterinary students across the nation have been raised in cities and suburbs where they are less likely to have developed an interest in large animal medicine—the profession must challenge them to meet today’s increased demand for dairy veterinarians and food safety specialists.

Last summer, 12 students immersed themselves in the real world of dairy medicine and food safety through the Early Veterinary Student Dairy Experience Program. Now in its second year, the program aims to recruit a new generation of food animal veterinarians by encouraging more students to choose the food animal track in their studies. Each of the students worked on a modern dairy for five weeks, performing all the tasks—milking, feeding, medicating sick cows and calves, and keeping records—in order to gain dairy management experience. Five students spending their second summer in the program accompanied dairy veterinarians to farms in order to gain experience in the field and insight from mentors. As practitioner Julie Breher (DVM ’97, MPVM ’98) puts it, “You need the time in the truck—the more experience riding day-to-day with a veterinarian, the better.”

Associate Dean for Clinical Programs, Brad Smith says, “Although most students enter the DVM program with 1,600 or more hours of veterinary experience, few have been exposed to the unique environment of California’s large-scale dairies.” Dr. Smith coordinates the Early Veterinary Student Dairy Experience Program, funded jointly by the California Dairy Research Foundation, the Pharmacia and Upjohn Company and the UC Davis School of Veterinary Medicine. “We have had a shortage of dairy practitioners for about ten years,” says dairy veterinarian Mark Brandt (’86) of Mid Valley Large Animal Service. Dr. Brandt, who mentored Suzanna Muncy (’02) in 2001, has seen the role of the California dairy practitioner change over more than 15 years. “Careers are more specialized now, and the type of work in dairy medicine has changed.”

Joe Machado, manager of Ahlem Farms, Hilmar, hosted Mark Langheinrich (’05) this year. “Mark was a little tired the first day. He got better by the day. We had him checking cows, milking, doing a herd check every week with the vet, [collecting embryos from donor cows for transfer], and involved in meetings.” Langheinrich also gave medications and observed surgeries. “It was an adjustment to find myself in a small town,” Langheinrich recalls. “It’s a great place. When this [opportunity] came up, I jumped at it. It’s hard work. It’s fun.”

Lisa Branstad (’05), who wants to broaden her experience with cattle, worked on the Clauss Dairy with about 3,000 cows. She learned how to feed calves, give medications and handle heifers. Regarding the experience of working in an all-male environment, she says, “It took about a day to adjust.”

Jill Mercado (’04) found more than she expected on the Galt, Elk Grove and Lodi dairies where she spent a month with veterinary mentor Julie Breher during her second summer in the program. She says, “I thought we would go to a farm, fix a problem and leave.” But in addition to getting a feel for handling herself around a cow and learning examination techniques, Ms. Mercado learned about today’s preventive medicine approach, which primarily focuses on herd health.
“We discussed management and business, nutrition and health strategies,” she says. “I’m learning about brucellosis and human health and about drugs that could end up on our tables.”

Even for students acquainted with farm life, the program offers a fresh perspective. Frank Martin (‘04), whose family owns a Northern California dairy, had always intended to become a dairy vet. Two summers in the Central Valley, he says, “opened my eyes to different facets of the profession. At home, we milk 120 cows. Last year, at Rancho Teresita dairy, they had 2,800 head. It’s great to get large herd experience.”

Gaining solid work experience and a realistic view of the demands of the job enables students to focus their academic studies and tailor their clinical training. “The program makes me jazzed about being in vet school,” says Martin. “It reaffirms that what I am learning in class is important.”

Herdsmen are generous with their time for the students. Joe Machado says, “We’re pleased they’re here. That’s our future. Without veterinarians, we can’t operate.” C.A. Russell, manager of Clauss Dairy, also in Hilmar, adds, “We learn as much from our interns as they do from us. This kind of program is really going to benefit the industry down the road.”

“I don’t sugar coat any of this,” Dr. Brandt says about the challenge of dairy practice, which requires physical stamina and excellent interpersonal skills. “You develop incredibly close relationships with dairy owners,” he says. “You are an integral part of their livelihood. It’s a huge responsibility, but a very rewarding commitment.”

Veterinarian and program mentor Ron Terra (’82) says that in addition to bringing new tools and methods of veterinary practice to help dairy producers improve animal health, reduce mortality and improve pregnancy rates, “We’re trying to get out there and join with the industry to work on food safety and quality assurance issues.”

The Early Veterinary Student Dairy Experience Program alerts students to the need for partnerships between veterinarians and producers, says Brad Smith. “Students see the practical side of food safety issues—compliance with the Animal Medicinal Drug Use Clarification Act (AMDUCA), prevention of toxins in the food [production] chain, withdrawal times for various drugs, and ways to minimize antibiotic use.”

While students, dairymen and veterinarians concur that food animal medicine is not easy money, the rewards are substantial—good news for graduates paying off school debts. Starting salaries average $55,000 and up. Depending on the structure of the practice, graduates can earn up to $70,000 in their first year.

Completion of the program is a measure of success, yet the value of the program will ultimately be judged by the number of students who choose food animal practice. Considering experiences reported so far, several new dairy vets have emerged from the herd.

After two summers on dairies, Sabino Herrera (’02) has decided to follow a dairy medicine career when he earns his DVM degree. Frank Martin is seeking more dairy industry opportunities through the school. Lisa Branstad plans a mixed practice career emphasizing farm animals. Jill Mercado intends to practice food animal and small animal medicine. She concludes, “The program took someone like me—I grew up in Southern California with no farms nearby—and turned me around to thinking that I can do large animal medicine.”
Veterinary ophthalmology deals with anatomy, function, pathology and treatment of the eye in all species of animals. If your animal shows subtle or obvious signs that could indicate eye disease, early diagnosis and treatment by your veterinarian or veterinary ophthalmologist is the key to maintaining vision and comfort.

Ocular structures:
- **Inferior oblique muscle**
- **Superior oblique muscle**
- **Sclera**
- **Optic nerve**
- **Retina**
- **Light-sensitive membrane**
- **Cornea**
- **Lens**
- **Vitreous humor**
- **Pupil**
- ** Conjunctiva**
- **Tears**
- **Lacrimal gland**

**FINDING THE ROOT OF THE PROBLEM: HYPERVENTILATION RETINOPATHY**

Older cats may develop a combination of dental or retained debris when a small object, such as a nut, a small stone, or a piece of glass, may get stuck in the eye, causing pain and discomfort.

**Human antiviral agents for cats. In association with nutritional deficiencies or stress, feline herpesvirus may cause conjunctivitis, keratitis (pink plaque over the cornea), dry eyes, and/or keratitis (corneal cloudiness) or, sometimes, feline infectious peritonitis (white plaques or nodules).**

**PREVENTING EYE DAMAGE**

**KCS OR “DRY EYE”**

Adequate production of tears to cover the outer surface of the cornea is essential to good ocular health. Tears contain nutrients, oxygen and lubrication to the cornea. Both debris from the surface of the cornea, excessive vision and lack of sleep can lead to permanent damage.

**KERATOCONJUNCTIVITIS (KCS) OR “DRY EYE” is a common ocular disorder that affects the cornea and conjunctiva.**

KCS is usually treated with oral medications such as omega-3 fatty acids, vitamin A, and cyclosporine. However, if the condition is severe, surgical treatments may be necessary.

**RESTORING VISION**

**Cataracts**

The lens helps focus light onto the retina, where light energy is converted into electrical energy that can be interpreted by the brain. A cataract is a cloudiness in the lens, which reduces the amount of light that reaches the retina. Cataracts can be congenital or develop later in life due to age-related changes. Cataracts can affect any species of animal, but they are most common in dogs and cats.

**Cataract surgery** is a common and effective treatment for cataracts. The procedure is performed either on an outpatient basis or in a hospital setting. During the surgery, the surgeon removes the cloudy lens and replaces it with an artificial lens. The artificial lens is usually made of silicone and is designed to last for the lifetime of the animal. Cataract surgery is a relatively quick and safe procedure, and most animals recover well within a few days.

**RESEARCHING NEW TREATMENTS**

**FELINE HERPESVIRUS**

Feline infectious peritonitis (FIP) is a common and often lethal condition that can affect the eyes and respiratory tract. Most cats are infected with the virus, but some are latently infected with the virus. Most latently infected cats never develop clinical signs of the disease, but for those that do, the disease is often progressive and may be accompanied by fever, anorexia, weight loss, and decreased activity. Treatment options for FIP are limited, and the disease is usually fatal.

**ORBITAL DISEASE**

**Orbital masses** are tumors that grow inside the eye socket. Orbital masses can cause eye pain, vision loss, and even blindness. Early diagnosis and treatment are crucial to prevent complications such as orbital cellulitis, orbital abscess, or orbital cellulitis.

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MASTER OF PREVENTIVE VETERINARY MEDICINE

Graham Crawford’s passion for wildlife studies led him to enter the school’s Master of Preventive Medicine program.

The MPVM program prepares veterinarians to maintain health in animal populations, including food animal flocks or herds as well as wildlife populations or entire ecosystems. Flexible coursework accommodates diverse interests—herd health, food safety or public health—in an array of species—wildlife, livestock, poultry, laboratory animals, companion animals (e.g. shelter animal medicine) or horses. Candidates use the tools of epidemiology and data analysis to design, evaluate and implement disease control strategies or other veterinary services programs within their specialty.

Director David Hird says, “The MPVM program opens students’ eyes to the multitude of veterinary career paths outside typical small animal medicine practice—food animal practice, public health service or research, and wildlife health management, an area of growing concern to veterinary scientists around the world.”

Dr. Crawford began his MPVM degree studies in a makeshift trailer camp on Grizzly Island. He is conducting a two-year research project on wildlife health: surveillance of the tule elk herd for early evidence of Johne’s disease.

Volunteers from the California Department of Fish and Game, San Francisco Zoo, UC Davis Wildlife Health Center and his family helped Dr. Crawford obtain tissue samples from 37 animal carcasses during the annual controlled elk hunt in protected Suisun Bay Estuary.

The resulting data will be used to document the presence or absence in the Grizzly Island herd of Avium paratuberculosis, the microbacterium responsible for Johne’s disease in tule elk.

The Wildlife Health Center provided initial funding for the Grizzly Island study, and Dr. Crawford received additional grants from the Rocky Mountain Elk Foundation and the Granite Bay and San Francisco chapters of Safari Club International.

After earning his DVM degree at UC Davis in 1982, Dr. Crawford entered a private mixed practice in the Napa area. A position in small animal emergency medicine in San Jose later put him in close proximity to the San Francisco Zoo, where he spent many volunteer hours as a consulting veterinarian. He eventually became a full-time zoo veterinarian.

His interest in wildlife issues began with the zoo’s involvement in the Madagascar Fauna Group—a field consortium of 30 international zoos focused on wildlife conservation—in an effort to preserve the 32 species of lemurs that inhabit Madagascar, where deforestation and erosion threaten habitat. In 1997 and 1998, Dr. Crawford helped release captive-bred lemurs into Madagascar’s Betampona Natural Reserve.

Dr. Crawford will present the tule elk study this summer—he completes the rigorous MPVM curriculum in August. He says, “I feel really excited to be able to use the skills I’ve learned to analyze the data I already have.” He is also involved in an ongoing study of lemur nutrition.

Kevin Mallery, DVM, received an award for his study of an ultrasonography technique for treatment of hyperthyroidism in cats, presented at House Officer Seminar Day 2002.
Three alumni received the 2001 Alumni Achievement Award, the school's highest honor:

James DeMartini (’66, PhD ’72), professor of pathology at Colorado State University College of Veterinary Medicine and Biomedical Sciences, was recognized for distinguished contributions to ruminant infectious disease research, the field of veterinary pathology and veterinary medical education.

Edward Feldman (’73), professor of small animal internal medicine at UC Davis, was recognized for outstanding accomplishments and commitment to research and teaching in the fields of canine and feline endocrinology and reproduction.

Peter Quesenberry (’78, MPVM ’91), veterinarian and administrator of World Concern, an international charitable organization, was recognized for his impact on the lives of humans and animals through teaching and training in epidemiology, agriculture and public health.

Stephen Barthold (’69), director of the Center for Comparative Medicine and the UC Davis Mouse Biology Program, was elected last October to the Institute of Medicine of the National Academy of Sciences, one of the highest honors conferred upon medical and health professionals.

Gregory Ferraro (’71) director of the Center for Equine Health, was appointed by Governor Davis last June as one of three new members of the Veterinary Medical Board, which licenses veterinarians, certifies registered veterinary technicians, and regulates both.

VMTH clients Mr. and Mrs. Joseph Freid and their dog, Bandit; and Ms. Sheila Cruickshank and her dog, Punkster, received the 2001 El Blanco Award recognizing their participation in the first experimental pancreatic cell transplantation performed in dogs, which contributed to scientific knowledge and created a new opportunity to help both animals and people with pancreatic dysfunction.

Geoffrey Fosgate won the prize for best student presentation in Epidemiology and Animal Health Economics at the 82nd meeting of the Conference of Research Workers in Animal Diseases last November. PhD students enrolled in the school’s epidemiology program have won the prize four times in the last five years.

Laurel Gershwin, professor in the department of Pathology, Microbiology and Immunology, received the 2001 Pfizer Animal Health Award for Research Excellence for her work on bovine respiratory diseases, IgE-mediated diseases and animal models of allergic lung disease.

Robert Hansen, professor of physiological chemistry in the Department of Molecular Biosciences, received the 2001 Norden Distinguished Teacher Award. In June 2001, after serving for 18 years in the position, Dr. Hansen stepped down as associate dean for student programs.

Joe Harper, president and general manager of the Del Mar Thoroughbred Club, is the 2001 recipient of the UC Davis School of Veterinary Medicine’s Distinguished Service Award in recognition of his hundreds of hours of volunteer leadership of the Center for Equine Health and other school units. Mr. Harper is a charter member and chair of the Center for Equine Health Advisory Board.

Susan Hildebrand, professor of anesthesiology in the Department of Surgical and Radiological Sciences and chief of the VMTH Anesthesia/Critical Patient Care Service 1999–2001, became associate dean for student programs last July.

David Hird (’68, MPVM ’73), director of the school’s Office of International Programs, was appointed director of the Master of Preventive Veterinary Medicine Program for a three-year term beginning last July.

James Jones, professor in the Department of Veterinary Surgery and Radiology and an authority on respiratory and exercise physiology, received the 2001 Faculty Distinguished Teaching Award.

Robert Leighton, professor emeritus, was named honorary professor by the University of Buenos Aires, Republic of Argentina, last June.

Donald Low, professor emeritus, received the CVMA Distinguished Life Award last June. He serves as mentor and advisor to the entire profession, promoting continuing education of veterinarians and veterinary technicians.

Mark Nunez (’93) received the school’s 2002 Distinguished Service Award in recognition of his outstanding contributions to the Southern California Veterinary Medical Association (SCVMA) and the direct benefits provided to UC Davis students and the veterinary profession throughout California. Dr. Nunez serves as president of SCVMA, the largest local veterinary organization in the United States.

Bennie Osburn, dean, and John Pascoe, executive associate dean, were appointed by the chancellor to serve a second five-year term last September.

The Department of Population Health and Reproduction was one of nine grant winners in the Philip Morris family of companies 2001 Shared Solutions Agricultural Contributions program for an online food safety education program focusing on dairy cattle. It features a Web-based continuing education course developed for dairy veterinarians and farm advisors in six western states who will pass along pertinent information to dairy producers. The goal is to provide higher quality dairy cattle for slaughter according to new Hazard Analysis Critical Control Point requirements for meat packers.
Jon Ramsey (PhD ’95 Colorado State University) has joined the faculty as assistant professor in the Department of Molecular Biosciences. He comes to UC Davis from the University of Wisconsin; his research interests are energy metabolism as it relates to aging and obesity, and regulation of energy expenditure and energy requirements of animals.

Kevin Reilly (DVM/MPVM ’88) was appointed in September as Deputy Director of Prevention Services for the Department of Health Services to serve as principal policymaker and representative on public health issues. He oversees programs in several areas of public health including disease and injury control; AIDS; food, drug and radiation safety; drinking water and environmental management; clinical preventive medicine; and binational border health.

Jane Sykes (BVSc ’93, PhD ’98, University of Melbourne; diplomate of the American College of Veterinary Internal Medicine) joined the faculty of the Department of Medicine and Epidemiology in January as assistant professor. Dr. Sykes is also a member of the VMTH Small Animal Medicine Service. Dr. Sykes served a residency in internal medicine and was an assistant clinical specialist in small animal internal medicine at the University of Minnesota. Her primary research interests are the pathogenesis, diagnosis and epidemiological aspects of infectious diseases of dogs and cats.

Fern Tablin, professor in the Department of Anatomy, Physiology and Cell Biology, and Dean Bennie Osburn were among nine UC Davis faculty members elected to the American Association for the Advancement of Science in 2001. AAAS, the world’s largest scientific organization, publishes the journal Science and works to bridge gaps between scientists, policymakers and the public.

Tilahun Yilma (’70) was selected by the campus Academic Senate as the 2002 Faculty Research Lecturer at the University of California, Davis, in recognition of his work on vaccine development against the deadly rinderpest disease and his current work on an AIDS vaccine.

IN MEMORIAM

Robert M. Cello, professor emeritus, died May 20, 2001, of complications from leukemia at age 79.

After serving as a lecturer at UC Davis and as a private practitioner, Dr. Cello joined the faculty in 1954. He and his colleagues planned the first modern full-service veterinary medical teaching hospital—one that would use the knowledge gained from ongoing university research to understand, diagnose and treat naturally occurring diseases. The Veterinary Medical Teaching Hospital, completed in 1971, provided a model for similar facilities and programs. Dr. Cello served as the hospital’s first director, founded the Ophthalmology Service, and was instrumental in developing the nation’s first and largest residency program in veterinary medicine.

Dr. Cello’s research in veterinary ophthalmology—external and systemic diseases of the eyes in domestic animals and their relationship to human ophthalmology—won international recognition. For many years he held a concurrent appointment with the Proctor Foundation for Research in Ophthalmology at the UC San Francisco School of Medicine.

Dr. Cello received a national Outstanding Educators of America award (1972), two campus Distinguished Teaching awards (1959, 1971), and a national award from the American Animal Hospital Association (1969). He was elected chair of the UC Davis Academic Senate in 1980. Dr. Cello also served the campus for five years as vice chancellor for academic affairs.

Dr. Cello’s family contributed $73,100 toward the renovation of clinic and office space for the Ophthalmology Service, which will be named the Robert M. Cello Veterinary Ophthalmology Suite.

Robert M. Cello

Robert Fallon Larson (’53, MS immunology ’74), died June 23, 2001, at age 76. He practiced in El Cerrito, California, for many years and established Sonoma Creek Winery, which became one of the preeminent small wineries in California. Dr. Larson was known for his integrity, generosity and kindness. He died peacefully at home surrounded by his family.

Arthur Newell (’53) died in October 29, 2001 after a long battle with emphysema and congestive heart disease. He served as CVMA treasurer for many years, chair of the CVMA Insurance Committee, and executive director of the California State Veterinary Association.

Lawrence Proctor, Jr. (’54) died January 28, 2002. He was a distinguished CVMA life member and also, at various times during his life, was a disc jockey, actor, U.S. Air Force pilot, organist, published poet and cook.

Myron Schaffer, lecturer in the early days of the school, died November 23, 2001, at age 77. He established Redwood Veterinary Clinic in Santa Rosa, where Robert Cello was his partner until 1954. Dr. Schaffer’s grandson, Nathan Baliff, is completing a residency in small animal medicine at UC Davis and will take over the practice.

Russell White (’70) died in November 2001 at age 58. He had retired and lived in Idaho.

Stephen White (’62), retired small animal clinical practitioner from Chico, California, died June 24, 2001, at age 65, after a three-year battle with cancer. Dr. White founded Mangrove Veterinary Hospital in 1966, and practiced large and small animal medicine and small animal dentistry. He enjoyed his mules, swimming, bicycle riding, Yoga, learning, traveling and playing the American Indian flute. He will be remembered for his hearty sense of humor and enthusiasm for life.
DEVELOPMENT NOTES

Beginning with this edition, *Veterinary Medicine* News will include a special section. Development Notes will focus on the diverse people and organizations that support the School of Veterinary Medicine, either with charitable gifts or by serving as volunteers and advocates. Development Notes will also keep you informed about projects and programs that are attracting support.

Many of our most generous friends have never visited the UC Davis campus, but are still deeply committed to the school’s animal health and education missions. Others are well known members of our alumni or faculty communities, whose gift intentions are linked to the school’s earliest days in Haring Hall.

We hope you enjoy this new section and welcome your suggestions for future editions.

HONOR ROLL

DEAN’S CLUB

*Special thanks to members of the Dean’s Club ($1,000 or more)*

The Dean’s Club is a group of alumni, professional colleagues and parents affiliated with the UC Davis School of Veterinary Medicine. Each enrollee contributes $1,000 or more, through the Annual Fund, to assist Dean Bennie Osburn with priority projects within the school’s teaching, research and service missions. Members are invited to private events with the dean to discuss issues of interest.

Special thanks to the following 56 members of the Dean’s Club, each of whom has made a significant personal commitment of support during the past 18 months.

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**CLASS OF 1952 REUNION GIFT**

The first class to graduate from the UC Davis School of Veterinary Medicine will celebrate its 50th graduation anniversary in June 2002.

All 42 students in the class of ’52 were men, and all but one served in the armed services during World War II. Most, having come from ranches and dairies throughout the state, emphasized large animal medicine in their training. Of the 42 original graduates, 28 are still living.

They will attend the school’s 50th Commencement Ceremony, followed by a celebration of their 50-year reunion. Family members of deceased classmates are also invited to participate.

The class decided to present a 50th reunion gift to the school to mark this special occasion. A steering committee worked with Dean Bennie Osburn and learned of the pressing need for graduate student support and research. The Class of ’52 Reunion Gift Campaign was initiated to raise money for an endowment to provide support to graduate students. To date, 21 members of the class have participated and raised a total of $42,300. The goal is 100 percent participation by June 2002.

John Shirley, chair of the reunion planning committee, says “The class of ’52 is very grateful to the School of Veterinary Medicine for our education. Our training made possible very enjoyable and satisfying careers providing our communities with veterinary services. We are pleased to be able to do something to carry on this legacy to future members of our profession.”

---

Caren, Barry
Klinke, Diane G.
Osburn, Bennie, PhD ’65
Rebok, Mr. & Mrs. Douglas
Salquist, Mr. & Mrs. Roger H.
Lone Oak Veterinary Clinic
Dohner, Barry, DVM
Cripe, Wyland S., ’52
Bittle, James, ’53
Baker, Robert, ’54
Brewer, Robert, ’54
Plocher, Philip, ’54
Nelson, Charles, ’55
Wetmore, William, ’55
Coster, Ian, ’58
Kidwell, Larry C., ’58
Krupp, Jerome, ’58
Broersma, Berend, ’59
Hazarabedian, Arthur, ’59
Keagy, Richard, ’59
Tennant, Bud, ’59
Floyd, Michael, ’61
Glidden, Wallace, ’61
Fisher, Robert, ’62
Herbert, Larry, ’62
Switzer, John, ’62
Romine, Larry, ’63
Neves, Arthur, ’65
Ringen, Ronald, ’66
Russell, Stephen, ’66
te Velde, Henry, ’67
Malo, Leslie, ’68
Barthold, Stephen, ’69
Van Zwieten, Matthew, ’69
Andersen, John, ’70
Bertelsen, Lynn, ’70
Bradford, Robert, ’70
Ver Steeg, James, ’70
Boles, Charles, ’71
Buhles, William, ’71
Villalobos, Alice, ’72
Clark, R. Wayne, ’73
Crow, Steven, ’73
Shatiya, Hani, ’73
Dillon, Gary, ’74
Dillon, Renee, ’74
Ina, Michael, ’74
Cutler, Gregg, ’74
Levesque, Donald C., ’75
Pilch, Lloyd, ’75
Machado, Craig, ’76
O’Brien, Michael, ’76
Kerr, H. Jay, ’77
Friszell, William, ’79
Tripp, R. Rolan, ’79
Codington, James, ’80
Harper, Alfred, ’81
Sondag, Janice, ’82
Ulrich, C. Paul, ’82
Umeda, Paul, ’82
Montgomery, Steven, ’83
Rohrich, Pamela J., ”83
Eslinger, Loren, ’84
Watanabe, Dean, ’84
Cisneros, Pedro, ’85
Parry, Susan, ’85
Iburg, Linda, ’87
Dugan, Jessica, ’92
Schiebert, Jennifer, ’95
Chin, Michele, ’99
In appreciation of the parents of veterinary students

In response to requests for support to the newly established Parents Fund, 40 parents contributed $3,960 in unrestricted gifts. Initiated by a request from Barbara Preston, MD, mother of graduate Liesl Peterson ('97), the families of current students provided thoughtful additional support benefiting student programs with high-priority needs. The Parents Fund allows the dean to direct support to clubs and campus groups when unexpected needs arise.

Dean Osburn interacts with first-year students during Dr. Zinkl’s laboratory course in veterinary hematology.

In response to requests for support to the newly established Parents Fund, 40 parents contributed $3,960 in unrestricted gifts. Initiated by a request from Barbara Preston, MD, mother of graduate Liesl Peterson ('97), the families of current students provided thoughtful additional support benefiting student programs with high-priority needs. The Parents Fund allows the dean to direct support to clubs and campus groups when unexpected needs arise.

NEW CLASSROOMS ARE COMING

A two-story, 30,000-square-foot structure, scheduled to break ground in early 2003, will provide students with their first new, permanent School of Veterinary Medicine classrooms in more than 30 years.

When completed in 2004, the Veterinary Medicine Instructional Facility (VMIF) will become the instructional heart of the new veterinary medical campus being constructed around the Veterinary Medical Teaching Hospital.

The $25 million VMIF, as funded from state and school resources, will include three medium-size classrooms, three large classrooms, two 175-seat lecture halls, two clinical instructional laboratories, and group and individual study spaces.

Alumni and other friends of the school are helping to “expand and improve” the VMIF by adding 4,300 square feet of student-focused upgrades and improvements. A committee of volunteers is working to raise an additional $2.5 million in private funds to provide offices for student clubs, a bookstore, offices for the Pet Loss Support Hotline, a cafe and patio, and a conference room. Gift funds will also support design improvements to make the building a multipurpose facility, to increase its display and exhibit capabilities, and to reshape it as a welcoming center of veterinary education on the UC Davis campus. During weekends and nonacademic hours, the flexible new structure will be suitable for class reunions, emeritus faculty activities, annual lecture series and continuing professional education programs.

Drs. Michael Floyd and Niels Pedersen co-chair the VMIF Campaign Committee. Together with their alumni and professional colleagues, they have already begun to solicit tax-deductible gifts and multi-year pledges to raise the $2.5 million needed to complete the VMIF. Dr. Floyd made a lead gift to launch the effort. “Every VMIF contribution will help to speed completion of this badly needed instructional facility, and will help to remove the limitation on the school’s accreditation,” says Dean Osburn.
HONOR ROLL

ANNUAL FUND
Thank you, alumni and veterinary colleagues, for your support!

From July 2000 through December 2001, more than 450 alumni and other professional colleagues of the UC Davis School of Veterinary Medicine contributed to the Alumni Annual Fund. During the past year and a half, over 12 percent of the school’s alumni provided contributions for strategic priorities and underfunded programs. In the past five years, 25 percent of our alumni have donated to either the Alumni Annual Fund or other significant projects. In recognition of your generosity, contributors to the Alumni Annual Fund since July 2000 are listed below. Thank you!

Parker, Harold, ’52
Shirley, John, ’52
Bayer, Edmond, ’53
Bittle, James, ’53
Eisenhower, Arthur, ’53
Erwin, Kenneth, ’53
Hansen, Jay, ’53
Pettit, Ghery, ’53
Clinkenbeard, Charles, ’54
Herron, William, ’54
Leck, Arthur, ’54
Rifkind, Leo, ’54
Wilken, Frank, ’54
Berry, Laurence, ’54
Caston, Homer, ’55
Darling, Jack, ’55
Gregg, Henry, ‘55
Darling, Homer, ’55
Held, Joe, ’55
Hollister, John, ’55
Shenson, Mervyn, ’55
Snortum, Thomas, ’55
Wichmann, Robert, ’55
Fulton, Samuel, ’56
Locke, Louis, ’56
Robinson, Charles, ’56
Sternau, Burton, ’56
Campbell, Kirby, ’57
Gould, Thomas, ’57
Humason, Ronald, ’57
Nevin, Edward, ’57
Sanford, Janet, ’57
Warner, Horace, ’57
Barnes, Charles, ’58
Finegan, Martin, ’58
Larkin, James, ’58
Moody, Kenneth, ’58
Levine, Gabrielle, ’59
Levine, Kenneth, ’59
Akins, M., ’60
Dodd, Gloria, ’60
Jarrett, Harry, ’60
Lynch, Joseph, ’60
Dickson, David, ’61
La Pittus, Morton, ’61
Fairchild, David, ’62
Kreisberg, Michael, ’62
Porter, George, ’62
Siegel, Leon, ’62
Zimmerman, John, ’62
Crawford, Richard, ’63
Peterson, Irvin, ’63
Sears, Alson, ’63
Simpson, John, ’63
Accornero, Rneo, ’64
Colgrove, Denise, ’64
DeHart, Leslie, ’64
Didden, Daniel, ’64
Pulley, L. Thomas, ’64
Collins, Irene, ’65
Koning, Fred, ’65
Lind, Carl, ’65
Mehren, Kay, ’65
Uchimura, Richard, ’65
De Martini, James, ’66
Hirsh, Dwight, ’66
Mead, Robert, ’66
Morein, Ronald, ’66
Kluse, Michael, ’67
Passovoy, Michael, ’67
tVelde, Henry, ’67
Bailey, Thomas, ’68
Cartwright, Albert, ’68
Crew, David, ’68
Field, Marty, ’68
Grattidge, Melvin, ’68
Silverman, Sam, ’68
Williams, Thomas, ’68
Evans, William, ’69
Hacker, Richard, ’69
Halse, John, ’69
Herman, Walter, ’69
Lavidor, Stephen, ’69
Metzger, Timothy, ’69
Trevathan, Walter, ’69
Ward, David, ’69
Danselski, Thomas, ’70
Menene, Jerry, ’70
Sasaki, David, ’70
Seeman, Laurence, ’70
Smith, Bradford, ’70
Stremel, Ronald, ’70
Cohen, Jeffrey, ’71
Elgenhofer, Stephen, ’71
Ferraro, Gregory, ’71
Herthel, Douglas, ’71
Nelson, Lynn, ’71
Pyle, Thomas, ’71
Skaife, Derek, ’71
Taylor, Boyd, ’71
Cherrstrom, E. Corey, ’72
Fellers, Greg, ’72
Frey, Richard, ’72
Garcia, Robert, ’72
Keenan, Kevin, ’72
Lyman, William, ’72
McNeel, Sandra, ’72
Saari, Margaret, ’72
Schmidt, Gregory, ’72
Barrett, Ralph, ’73
Chiappella, Anne, ’73
Graben, Valerie, ’73
Muti, David, ’73
Ehler, William, ’74
Erb, Hollis, ’74
Foor, Thomas, ’74
Gurevitch, Russ, ’74
Koller, Daniel, ’74
Linett, Robert, ’74
Miller, James, ’74
Morshead, Donald, ’74
Olwin, David, ’74
Peavy, George, ’74
Plumb, James, ’74
Todoroff, Richard, ’74
Tsuruda, Roger, ’74
Zachery, Norman, ’74
Coats, David, ’75
Gardner, Donald, ’75
Herrera, Peggy, ’75
Hyton, Richard, ’75
Kerfoot, Michael, ’75
Kidd, William, ’75
Rollin, Janet, ’75
Smith, Patrick, ’75
Soares, Cecilia, ’75
Talbot, Thomas, ’75
Arrick, Robert, ’76
Chew, Margaret, ’76
Cutright, Bob, ’76
Davidson, Jeffrey, ’76
Eckstein, David, ’76
Feingold, Jan, ’76
Garrett, Janice, ’76
Greeley, Kerry, ’76
Heers, Richard, ’76
Liebau, M., ’76
Lowe, Larry, ’76
Migliore, John, ’76
Santero, Barry, ’76
Scott, Bradford, ’76
Stone, Elizabeth, ’76
Thompson, Scott, ’76
Weigel, Kenneth, ’76
Wichmann, John, ’76
Castleman, William, ’77
Kerr, H. Jay, ’77
Palmer, Michael, ’77
Petty, Robert, ’77
Taylor, M. Tamsen, ’77
Timmins, Richard, ’77
Witham, Christine, ’77
Aguilar, Gerald, ’78
Anderson, Gregory, ’78
Brown, Gaylord, ’78
Fostvedt, Karsten, ’78
Gallerstein, Gary, ’78
Kunin, Stan, ’78
Pennzien, Beverly, ’78
Slade, J. Jeffrey, ’78
Whippy, David, ’78
Ball, Stephen, ’79
Daniels, Debra, ’79
Gerrity, Kathleen, ’79
Keesling, Peter, ’79
Peckham, Richard, ’79
Presleigh, Randall, ’79
Sullenberger, William, ’79
Ameti, Irving, ’80
Attix, Edward, ’80
Bird, Karen, ’80
Bollen, Andrew, ’80
Comer, Karen, ’80
Cooper, Leslie, ’80
Flanders, James, ’80
Gee, Tara, ’80
Johnson, Lane, ’80
Morgan, Robert, ’80
Pollard, Kirk, ’80
Rowe, Joan, ’80
Warner, Charles, ’80
Welchert, Mary, ’80
Baker, Robert, ’81
Eisele, Pamela, ’81
Gandolfi, Rene, ’81
Kalset, Andrew, ’81
Lamb, David, ’81
Matsen, Karen, ’81
Sharp, Amanda, ’81
Short, Brian, ’81
Talbot, William, ’81
Thibedeeau, Joseph, ’81
Youldall, Mark, ’81
Alexander, Miranda, ’82
Cruz, Bernardine, ’82
Ertman, Robert, ’82
Hardy, Stephen, ’82
Hendricks, Joe, ’82
Humber, Kent, ’82
Humble, Joseph, ’82
Kestler, Andrew, ’82
Van Sant, Fern, ’82
Webb, Betsy, ’82
Amaral, Gary, ’83
Angulo, Frederick, ’83
Carberry-Goh, Karen, ’83
Carter, James, ’83
Hopper, Patrick, ’83
Joseph, Victoria, ’83
Laxineta, Marc, ’83
Lusk, Robert, ’83
Markel, Mark, ’83
Millar, Gregory, ’83

ENDOWED FELLOWSHIP TO SUPPORT ANATOMIC PATHOLOGY GRADS

When a campaign to establish the Peter C. Kennedy Endowed Fellowship in Anatomic Pathology was announced December 2 in Salt Lake City, more than $100,000 in gifts and pledges was already committed. The $150,000 campaign is chaired by Dr. Bill Spangler and Dr. N. James MacLachlan, chair of the Department of Pathology, Microbiology and Immunology. The fellowship pays tribute to Dr. Peter Kennedy, one of the true pioneers in veterinary pathology. Once endowed, it will provide a permanent source of annual fellowship support for students pursuing a PhD degree in anatomic pathology.
Veterinary Medicine News, UC Davis, Spring 2002

Moore, Dale, ’83
Occhipinti, Larry, ’83
Scoggin, Kevin, ’83
Sherman, Mary, ’83
Stuelpnelag, John, ’83
Tuoff, David, ’83
Davis, Martha, ’84
Elmore, David, ’84
Gilbert, Patricia, ’84
Haevernick, Timothy, ’84
Kilrain, Clayton, ’84
Kopit, Wayne, ’84
McManamon, Rita, ’84
Millman, Marilyn, ’84
Neadlerland, Marjorie, ’84
Sessa, Paul, ’84
Svihla, Richard, ’84
Werber, Jeffrey, ’84
Alt, Julie, ’85
Armstrong, Coral, ’85
Coe, Ann, ’85
Fox, Genevyr, ’85
Grauer, Elizabeth, ’85
Hagler, Robert, ’85
Harvey, Carolyn, ’85
Jonokuchi, Kathleen, ’85
Lund, Bruce, ’85
Murphy, Brigid, ’85
Noe, Laurie, ’85
O’Brien, Janice, ’85
Pelzer, Kevin, ’85
Pio, Mark, ’85
Reens, Judy, ’85
Williams, Cathy, ’85
Atton, Robert, ’86
Bates, Brien, ’86
Couper, Lisa, ’86
Downes, Lawrence, ’86
Porte, William, ’86
Reed, Holly, ’86
Robertson, Kimberly, ’86
Smith, Christopher, ’86
Steinberg, Diane, ’86
Teitler, Joan, ’86
Thomason, Karen, ’86
Wickler, Steven, ’86
Ahern, Peter, ’87
Bloland, Peter, ’87
Canan, Richard, ’87
Catania, Joseph, ’87
Day, John, ’87
Dowd, Elisa, ’87
Gray, Betsy, ’87
Gyorgyfalvy, Joy, ’87
Lowry, Jennifer, ’87
Miller, Christopher, ’87
Mitchell, Diane, ’87
Ostrowski, Stephanie, ’87
Potter, Jeanne, ’87
Rosenberg, Mona, ’87
Shields, Donald, ’87
Szucs, Elizabeth, ’87
Tucker, Pia, ’87
Wilson, Christine, ’87
Ames, Lawrence, ’88
Broussard, Gena, ’88
Dyer, Cathy, ’88
Elliot, Nancy, ’88
Hamaguchi, Joan, ’88
Iida, Carol, ’88
Levitt, Janet, ’88
Nadolksi, Sara, ’88
Newcomb, John, ’88
Rowntree, Walter, ’88
Bernard, Kristen, ’89
Christiansen, Valerie, ’89
Ehnert, Karen, ’89
Polishuk, Marjorie, ’89
Voss, Theresa, ’89
Dossey, Coleen, ’90
Dowd, Joseph, ’90
Feldman, David, ’90
Fling, Michael, ’90
Miller, Dawn, ’90
Nelson, Dana, ’90
Reider, Steve, ’90
Scott, Mary, ’90
Skiles, Mary, ’90
Sobbeck, Ruth, ’90
Cook, Lauralyn, ’91
Erickson, Teresa, ’91
Fling, Annarea, ’91
Hilinski, Keith, ’91
Kalaf, Nada, ’91
Madsen, Ralph, ’91
Miller, Leslie, ’91
Reimer, Daniel, ’91
Rupiper, David, ’91
Sutter, Steven, ’91
Towner, Sally, ’91
Wilson, Jamie, ’91
Klingbong, Jon, ’92
Nicosa, Leslie, ’92
Ortega, Teresa, ’92
Scheenstra, Debra, ’92
Siemens, Lori, ’92
Taylor, Tina, ’92
Williams, Kirsten, ’92
Bass, Kristine, ’93
Chret, Valerie, ’93
Cornel, Catherine, ’93
Dalmasso, Jennifer, ’93
Grant, David, ’93
Henry, Pegeen, ’93
Hiltunen-Hall, Pamela, ’93
Kidwell-Streeter, Katerina, ’93
Kummer, Mark, ’93
Parker, Amy, ’93
Peterson, Roberta, ’93
Pierce, Thomas, ’93
Thal, Douglas, ’93
Brown, Tracy, ’94
Hart, Carol, ’94
McConnell, Carol, ’94
McLain, Theresa, ’94
Tesoaro, Valerie, ’94
Kachulis, Cassandra, ’94
Adams, Laura, ’95
Chew, Philip, ’95
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Hebbler, Tamara, ’98
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Petersen, Christopher, ’98
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Rollen, Heather, ’98
Seward, Jennifer, ’98
Simmons, Tana, ’98
Cook, Paul, ’99
Ekblom, Nicole, ’99
Harris, Wendy, ’99
Horn, Jeffrey, ’99
Karle, Michael, ’99
Mathis, Deborah, ’99
Schoell-Almy, Kelly, ’99
Williams, Barbara, ’99
Dawson, David, ’00
McBride, Jennifer, ’00

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DEVELOPMENT NOTES

Pictured at the site of the future home of the California Dairy Technology Center are Tessa Curti, Tulare Western Future Farmers of America (FFA); Jose Urdaz, UC Davis resident veterinarian in dairy production medicine; Rebecca Chilusky, UC Davis veterinary student, Jacob DeGroot, College of the Sequoias (COS) student; Melanie Andrada, COS student; and Kim Fletcher, Tulare Union FFA.

CALIFORNIA DAIRY TECHNOLOGY CENTER RECEIVES $1 MILLION USDA GRANT

The United States Department of Agriculture has awarded a $1 million grant to the California Dairy Technology Center (CDTC), a real-world facility that will focus on student training and research to solve problems faced by dairy producers on a daily basis.

The center received the maximum award in one of only four such grants given in California. The Rural Business Enterprise Grant will be used to construct a Consumer Education Pavilion, which includes a teaching amphitheater and animal demonstration areas.

The CDTC—a partnership of the Tulare Joint Union High School District, the College of the Sequoias, and the UC Davis School of Veterinary Medicine—will be located adjacent to the school’s Veterinary Medicine Teaching and Research Center in Tulare, California.
ROOTS OF AUTISM

CENTER CREATED TO CARRY OUT CHILDREN’S HEALTH STUDIES

A faculty team representing many scientific and health disciplines at UC Davis has founded the Center for Children’s Environmental Health and Disease Prevention in order to discover the root causes of autism.

Investigators hope the findings of their studies will lead to new strategies for treatment and prevention of autism, a neurological syndrome defined by deficits in social interaction, lack of communication skills and exhibition of unusual repetitive behaviors.

The center is the first to specifically look at social behavior as a casualty of exposures to pesticides, polychlorinated biphenyls (PCBs) and mercury in the environment. It has been established by a five-year, $5 million grant from the National Institute of Environmental Health Sciences to begin identifying the many genetic factors and environmental exposures that have an impact on the development of autistic disorders. Additional funding includes $3.7 million from the M.I.N.D. (Medical Investigation of Neurodevelopmental Disorders) Institute and $350,000 from UC Davis for a total budget of $9 million.

Three major projects—the epidemiology of autism, experiments in social behavior, and laboratory studies in molecular biology—are incorporated in the center:

- Researchers will conduct a case-control study of 2,000 children ages 2–5 to review how genetic factors and exposure to chemicals such as PCBs, certain pesticides, and metals (including mercury compounds used in some vaccines) might work in concert to influence the development of autism.

- Investigators will assess whether prenatal and/or postnatal exposure to toxic chemicals will decrease normal social behavior; and if changes in social behavior are associated with alterations of brain regions linked with social behavior (e.g., the amygdala region). Researchers will develop models of autism in mice and non-human primates to observe and evaluate responses to maternal separation, newcomers, new objects, aggression, noises, sleep patterns, nesting behavior and related responses.

- In the laboratory, center team members will measure toxic compounds present in the blood of autistic and non-autistic children and investigate how chemicals affect a child’s nervous system while the brain is still developing its signaling pathways and new cells.

Center participants include UC Davis faculty and staff members under the following administrations: School of Veterinary Medicine, School of Medicine, The M.I.N.D. Institute and College of Agriculture and Environmental Sciences.

Isaac Pessah, professor of molecular biology at the School of Veterinary Medicine, directs the new Center for Children’s Environmental Health and Disease Prevention. Several studies are underway to discover root causes of autism.