

INSIGHT

Spring 2003

College of Veterinary Medicine and Biomedical Sciences

Special Issue: Report on Private Giving

Colorado State University

Knowledge to Go Places

INSIGHT
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COLLEGE OF VETERINARY MEDICINE
 AND BIOMEDICAL SCIENCES

On the cover: A special montage of photos from the openings of our two newest facilities, the hospital's new wing and the Gail Holmes Equine Orthopaedic Center.

REPORT on PRIVATE GIVING

The *Report on Private Giving* is published once each year by the College of Veterinary Medicine and Biomedical Sciences, Colorado State University, as a special edition of *Insight*.

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www.cvmb.colostate.edu

W elcome to the *Report on Private Giving*

Late last year, the College of Veterinary Medicine and Biomedical Sciences' community came together for a long-anticipated celebration. Faculty, staff, students, and friends of the College gathered at the James L. Voss Veterinary Teaching Hospital to rejoice in the grand opening of the new wing of the hospital. The eager crowds toured the Animal Cancer Center, the Argus Institute for Families and Veterinary Medicine, and the Shipley Center for Natural Healing. The event was the culmination of a multi-year effort that required time, resources, dedicated people, and, most importantly, private donors. This was one project that never would have made it off the ground without the support of the many individuals who gave so generously.

Just a week before the grand opening of the new wing, the College also celebrated the completion of the Gail Holmes Equine Orthopaedic Research Center. Again, without the generous donations of many individuals, this exciting new facility dedicated to improving the diagnosis and treatment of orthopaedic conditions in horses never would have gotten off the drawing board.

The *Report on Private Giving* is dedicated to recognizing these donors and so many others who have given throughout the past year to support the College's work. This support is especially important as the nation struggles through an economic downturn and here, in the State of Colorado, where budget cuts are straining resources for all state entities, including its universities. Our donors support not only essential capital construction, but also innovative programs, knowledge-building research, student scholarships, and professional support for faculty. ■

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Message from the Dean

Dear Friends,

I'd like to take this opportunity to thank each of you for all that you have done for the College during the past year. 2002 was a banner year for the College, with the grand openings of the Robert H. and Mary G. Flint Animal Cancer Center, the Shipley Natural Healing Center, the Argus Institute for Families and Veterinary Medicine, and the Gail Holmes Equine Orthopaedic Research Laboratory. None of this would have been possible without your support, both financially and personally.

It is my honor to announce that we have ended the year with a special gift of \$2.5 million from the Walton Family Foundation. The Walton family's generosity, through Alice Walton, will be used to strengthen programs and provide additional services, equipment, and personnel in the areas of equine orthopaedics and equine reproduction. We are very grateful to the Waltons for their gift and look forward to a rewarding partnership.

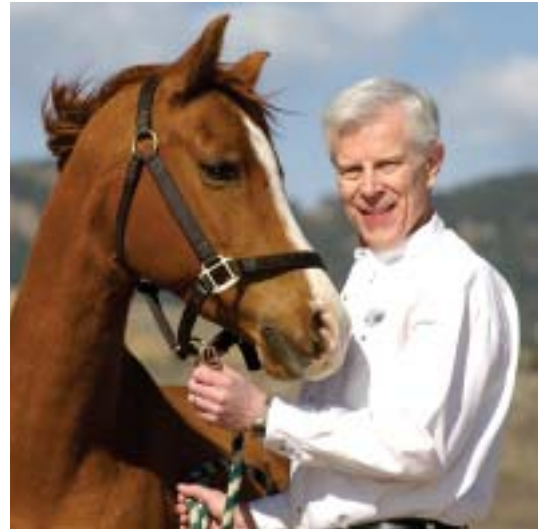
I want to thank Dr. Lynn Leadbetter, from the PVM Class of 1943, for his \$100,000 gift to fund scholarships for PVM students. Dr. Leadbetter wanted his scholarships to go to students who are in financial need and also less academically qualified than some of their peers. Dr. Leadbetter notes he was one of those students and, though he has done just fine for himself, remembers the struggles of those early days in veterinary school. We sincerely appreciate Dr. Leadbetter's funding of student scholarships and feel very privileged to count him among the College's friends and colleagues.

In 2002, we received a very special gift from Barbara Cox Anthony, a longtime friend of the College. Her donation

of \$6 million went to create two endowed chairs, one in equine orthopaedics and one in oncology. We are proud to announce that Dr. Wayne McIlwraith has been named to the Barbara Cox Anthony Chair in Equine Orthopaedics and that Dr. Robert Ullrich has been named to the Barbara Cox Anthony Chair in Oncology. This prestigious honor is a reflection of the personal character and dedication of both of these individuals. We thank Barbara Cox Anthony for her visionary thinking and her gracious generosity.

This year also saw the completion of the College's 25-year plan (see related story on page 4). While we may not know exactly what the future holds for the College, by planning for that future, we will be better able to control it. As someone once said, those who fail to plan, plan to fail. We would rather not be in the latter group, so we have put together a comprehensive plan for the south campus, including the James L. Voss Veterinary Teaching Hospital. Private donations will continue to be important in helping us to achieve our goals and keeping our College a national and global leader in veterinary medicine and the biomedical sciences.

Private support will be especially critical in the years to come. As many of you have read or heard or experienced, the State of Colorado is in a significant economic downturn, and budgets are being slashed. Colorado State University is no exception. We have gone beyond belt-tightening and moved into a full-fledged high-protein diet – no fat, no



Dr. Lance Perryman

carbs! At the College, we have always worked hard to be responsible stewards of money we receive both from state and federal funds and from private donations, but we will redouble our efforts to squeeze out value wherever we can.

In closing, I'd like to go "off-topic" and give a special thanks to all the pet owners who write to the College telling us of the extraordinary care their pets received while at the Veterinary Teaching Hospital. Your words give us comfort and cheer and provide moral support to those working at the front lines. We appreciate your kindness and kind words.

Thanks again to all of you who contributed so generously to the College during the past year. I look forward to seeing you in 2003. ■

With Best Wishes,

Lance E. Perryman, D.V.M., Ph.D.
Dean

25-Year Plan Takes College into the Future

What will the world look like 25 years from now? Today's young professionals will be approaching their 50s, and babies born today will have graduated from college and might be starting families of their own. It's hard to imagine that far ahead and how things will change, but the College of Veterinary Medicine and Biomedical Sciences has formulated a comprehensive 25-year plan to help project into the future and be prepared for whatever comes our way.

"We asked our faculty members to look ahead to 2025 – to temporarily set aside their own short-term goals – and help develop a vision for the future of the College based on current societal trends and the future potential of technology," said Dr. Lance Perryman, Dean of the College. "The task was challenging, often requiring great imagination and a suspension of preconceived notions, but the results of this exercise were very rewarding. We now have a plan that will help us acquire the resources we need, preserve the space necessary for expansion, and serve as a roadmap as we make our way through the next quarter century."

Dr. Martin Fettman, Associate Dean for the Professional Veterinary Medical Program, took the lead in developing the 25-year plan, which focuses primarily on the College's South Campus, including the James L. Voss Veterinary Teaching Hospital (VTH). The plan details how the 85-acre site will be developed and what types of facilities will be needed. The national architectural firm, Flad & Associates, working with Fort Collins-based company Aller-Lingle Architects, developed the overall plan based on site visits and the College's future needs as presented by the faculty and staff.

"When Dr. Perryman came on board last year, the development of a 25-year plan was one of his primary objectives for the College," said Dr. Fettman.

"It was an all-out effort, but well worth going through the process. We now have a clear view of the direction in which we are heading."

A master planning committee for the College of Veterinary Medicine and Biomedical Sciences met extensively with various user groups within the College to determine present conditions and future needs.

"The easiest part was identifying what we have," said Dr. Fettman. "The hard work was projecting our space needs over the next 25 years. We used historical growth to help us determine what our future growth would be, as well as input from the user groups at the hospital. Something quite interesting that came out of this was the fact that the College has built a new veterinary hospital every 27 years. Construction began on the last one in 1977, so we are about due. Of course, we won't be building a new hospital from scratch, but we will be expanding and extensively renovating."

The new wing of the Veterinary Teaching Hospital, which houses the Robert H. and Mary G. Flint Animal Cancer Center, Argus Institute for Families and Veterinary Medicine, and the Shipley Natural Healing Center, was the first step in the new plan.

After identifying existing facilities, the next step in the planning process was to determine space and location for each function. The last step was prioritizing projects so that the College's most urgent needs would be met in a timely manner.

Below are some of the College's construction priorities as detailed in the 25-year plan:

- Construct a new building for the Veterinary Diagnostic Laboratory, to be located on the north end of the existing hospital facility, and build a new facility to house second-year Professional Veterinary Medical students.

- Expand the Small Animal Critical Care Unit to include an intermediate ward and emergency medical services.
- Build a new and/or expand the existing equine and food animal facilities (barns, procedure rooms, and surgeries), paying particular attention to biosecurity issues and functionality.
- Expand Small Animal Surgery.
- Develop additional teaching laboratory space for Professional Veterinary Medical students and continuing education.
- Build a new Community Practice/Dentistry structure as a southwest wing on the VTH.
- Build a new research facility, moving Laboratory Animal Resources out of the VTH.
- Build new small animal wards and procedures area.
- Expand business offices and reception area.

Dr. Fettman said all expansions take into account the need for research and teaching, incorporating one into the other where possible, as well as grouping together complementary research and teaching groups.

"Priorities detailed in the plan are what we would like to see happen in an ideal world," said Dr. Fettman. "These priorities will guide our capital construction requests as well as our development program with private donors. But the fact of the matter is, what we build first is what we get the money for first. And then it becomes a giant game of dominoes with one change or remodel or new building leading to the next logical project."

The College of Veterinary Medicine and Biomedical Sciences' 25-year plan will be available to view online later this spring. You can check it out at www.cvmbs.colostate.edu. ■

Private Funding Helps Pave Way for Critical Research Programs

The College of Veterinary Medicine and Biomedical Sciences has a long and noble record of conducting innovative scientific research. It ranks consistently in the top three colleges of veterinary medicine in terms of research funding from the National Institutes of Health (NIH), USDA, Centers for Disease Control, and other federal agencies. Over the years, researchers within the College have made breakthroughs in the areas of cancer treatment, equine orthopaedics, tuberculosis, mosquito-borne illnesses, veterinary emergency care, and many other areas. With such success in hand, one would think that all is milk and honey.

But clinical research can be a vicious circle. It's hard for researchers to get money to conduct research into new fields until they can prove that the new research has potential. But it's hard to prove potential without money. Or, researchers often find themselves in situations where they have been given federal dollars to conduct research but don't have the laboratory facilities or equipment to support the research – and the grant does not allow money to be used to build facilities or buy equipment.

While some scientists in long-standing laboratories with detailed records of research successes find it relatively easy to apply for and receive government support, others struggle to get programs off the ground or to branch off into new and unproven areas. A particular problem for veterinary researchers is that little government funding is available for small animal studies unless direct ties to human health can be shown. Private donations to support research are critical in all these cases.

The Miki Society at Colorado State University is one example of how private donations support new research. Since the inception of the Miki Society in 1988, hundreds of veterinarians, clients,

and animal lovers have donated to the memorial fund. Most of the donations are not large, but together they enable the College to provide around \$50,000 in grants each year to support pioneering research. This year, Miki grants are supporting five research projects including the use of dietary supplements to treat arthritis in dogs, the causes of uveitis (a common eye infection) in cats, improved treatment of antifreeze poisoning in cats, and a possible treatment for atopic dermatitis in dogs.

Private foundations also provide support to researchers at the College. The Morris Animal Foundation sponsors a variety of research projects for companion animals at the College. Dr. Anne Avery, an Assistant Professor in the Department of Microbiology, Immunology, and Pathology, said support from private foundations has been critical to her work.

“The Morris Animal Foundation, along with the American Veterinary Medical Association, funded development of a diagnostic test for lymphoma in dogs,” Dr. Avery said. “Without that support, it would have been very difficult to conduct the research and studies necessary. This type of work, unless there is a direct link to human health, is not funded at all through the NIH or the USDA.”

The test developed by Dr. Avery's research team is now self-supporting and providing improved diagnostic testing not only for patients at the College's James L. Voss Veterinary Teaching Hospital, but also for patients of veterinarians across the country.

Dr. Kurt Beam, a Professor in the Department of Biomedical Sciences, said he doesn't know if he would be in the research business today if it weren't for private donations.

“When I was an Assistant Professor at the University of Iowa, I had to renew a grant for NIH money, and the renewal was denied,” said Dr. Beam. “If it wasn't

for money I had from the Muscular Dystrophy Foundation, my lab would have been shut down, and that would have killed my career.”

Dr. Beam and his research team study the proteins that are involved in the link between electrical signaling in, and contraction of, muscle cells. When these proteins are mutated, they can cause human diseases such as central core disease and periodic paralysis. Understanding these diseases may one day lead to better treatment and perhaps even a cure for related diseases including muscular dystrophy.

“It's often difficult for beginning investigators to win large NIH grants, so smaller funding sources are extremely important,” said Dr. Beam. “Private donations also help to provide expensive equipment or to give a researcher flexibility to explore avenues of study that are a bit riskier. Another important aspect for us is that groups such as the Muscular Dystrophy Foundation that have an interest in a particular disease keep our research more grounded. They force us to think about the consequences of basic research to human health, to think about the cause and the cure, and to keep in mind the human importance of what we do.”

Private donations act as a bridge for many programs and as a sole funding source for others. Private donations provide seed money to new research ideas, helping researchers to prove viability of their concepts so they can obtain larger grants. Private donations help with capital construction and equipment purchases and fund chairs and professorships, enabling world-class scientists to approach their work without the fiscal constraints that otherwise may hold them back. Without the private sector, much research of vital importance to the advancement of science and medicine, particularly veterinary medicine, would be difficult if not impossible to conduct. ■

Fifth Annual Stallion Auction Benefits Equine Programs

Owners of 25 top cutting stallions have come together once again to help support Colorado State University's Equine Orthopaedic Research Program and the Preservation of Equine Genetics Program. More than \$130,000 was raised for these two innovative research programs during the Cutting Stallion Auction.

The auction, held from Dec. 1, 2002, until Jan. 15, 2003, is an annual fundraiser. In addition to the cutting horse breedings donated this year, Bully Bullion, donated by Chavers Racing, became the first racing quarterhorse to join the auction.

Special thanks go to Elaine Hall of Larry Hall Cutting Horses, FLP, for donating a breeding to her cutting stallion, Peptoboonsmal. This breeding was auctioned off live at Hanes Chatham's Sale Extravaganza in Fort Worth, Texas, on Dec. 12, bringing in \$50,000 to the equine research programs.

"I recently visited the equine facility at Colorado State and could certainly see the benefits from the stallion breedings donated," said Hall. "I could tell the staff is very dedicated to the equine department in every way."

Many of the stallion owners participating in the auction are longtime supporters of Colorado State's equine programs, including Jack and Susan Waggoner from Bridgeport, Texas, who donated the services of their stallion, High Brow Cat.

"The best veterinarians we've had experience with are from Colorado State's Veterinary Teaching Hospital. We're giving back to them because they have taken such wonderful care of our animals," said Jack Waggoner.

Colorado State's Orthopaedic Research Program researches the underlying causes of musculoskeletal disease and injury and is developing improved methods for diagnosis, treatment, and prevention. The Preservation of Equine Genetics Program at Colorado State is working to improve all areas of equine reproductive health.

Stallion Donors

6666 Ranch/Burnett Ranches, Ltd.	Holmes Cutting Horses
Bet On Me 498 Syndicate	Kedon Farms
Chavers Racing	Kit Dual Partners
Circle C Ranch Company – Dan Churchill	Little Rush Syndicate
Glenn and Debbie Drake	Tommy Manion
Esperanza Ranch	Bobby Pidgeon – Bar H Ranche
GCH Cattle Company	Slate River Ranch
Elaine Hall – Larry Hall Cutting Horses, FLP	Smokin Trona Syndicate
George and Susan Hearst	Peter and Nora Stent
Ken Hill	Twin Willows Ranch
	Jack and Susan Waggoner

Primrose Fundraiser Helps CSU Equine Ambulatory Division

Several years ago, Primrose the donkey gained a certain amount of notoriety the hard way. As a baby, Primrose was attacked by a pack of dogs that severely damaged her left hind leg. Primrose's owners took her to the James L. Voss Veterinary Teaching Hospital, where they were told the leg could not be saved. But the owners couldn't bear to put Primrose down, so veterinarians at the hospital decided a prosthesis was the best answer.

Upon seeing the story of Primrose in the local paper, Fort Collins sculptor Dawn Weimer was so drawn to the little donkey that she decided to sculpt her. An idea took hold to have the sculpture available as a fundraiser for the Equine Ambulatory Service (after all, donkeys are equines, too), and art collectors now have the opportunity to purchase the work of a nationally renowned artist and help out horses (and donkeys) in need.

Sculptures of Primrose (with natural or with prosthetic leg) are available in several sizes, ranging in price from \$500 for a 4-inch full-body, free-standing edition of 300 to a life-size, full-body edition of 15 for \$15,000. Fully 40 percent of the purchase price of the sculpture goes to benefit the Equine Ambulatory Service. For additional information, contact Weimer at (970) 204-1900, or visit her Web site at www.dawnweimer.com.

By the way, Primrose still comes to Colorado State for regular fittings of new prosthetic legs and check-ups with her doctors. When not at the hospital, she romps and roams the foothills of Golden, Colorado, having adjusted remarkably well to her new leg. ■

Phi Zeta Thanks Corporate Sponsors

The College of Veterinary Medicine and Biomedical Sciences' Society of Phi Zeta, Tau Chapter, would like to thank the sponsors of its annual Research Day. The event offers Professional Veterinary Medical students the opportunity to showcase their research work in poster form and in oral proceedings.

Silver sponsors were the Iams Company and Pfizer Animal Health. Bronze sponsors were Colorado Serum Company and Nestle Purina PetCare. Hill's Pet Nutrition, Inc., was an individual sponsor. On behalf of all students who participated in Research Day, thank you for your continued support. ■

C VMBS Vital Statistics

The College

The Veterinary School was founded in 1907 and renamed the College of Veterinary Medicine and Biomedical Sciences (CVMBBS) in 1967.

Undergraduate degrees have been offered through the College since 1967. The College comprises four academic departments and the Veterinary Teaching Hospital. The four departments are:

- Biomedical Sciences
- Clinical Sciences
- Environmental and Radiological Health Sciences
- Microbiology, Immunology, and Pathology

The College participates in the Western Interstate Commission for Higher Education (WICHE) program and serves as the regional veterinary school for nine western states: Alaska, Arizona, Hawaii, Montana, Nevada, New Mexico, North Dakota, Utah, and Wyoming.

The Staff

Number of faculty: 131
 Special appointment faculty: 63
 Research associates: 131
 Administrative and professional staff: 41
 State-classified support staff: 274
 Residents: 38
 Postdoctorates: 90

The Students

Undergraduates in Microbiology and Environmental Health: 303
 Graduate degree students: 343
 Biomedical Sciences Open Option: 222
 Professional Veterinary Medical (PVM) students: 537

The Graduates

From 1907 to 2002, 5,861 graduates received Doctor of Veterinary Medicine degrees and 2,031 received advanced degrees (M.S. and Ph.D.).

The Cost

2002-2003 Tuition and Fees

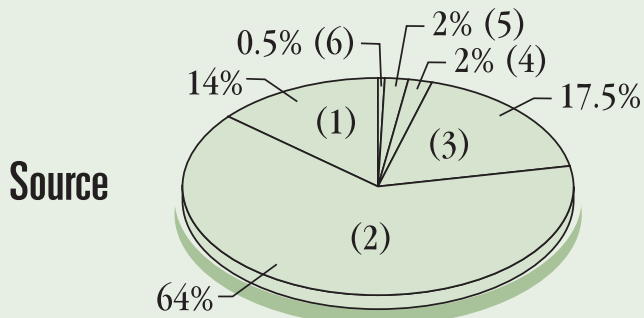
Undergraduate:	Resident	\$3,435
	Nonresident	\$12,705
Graduate:	Resident	\$3,838
	Nonresident	\$13,217
PVM:	Resident	\$10,008
	Nonresident	\$32,608

Priority Research/Other Programs

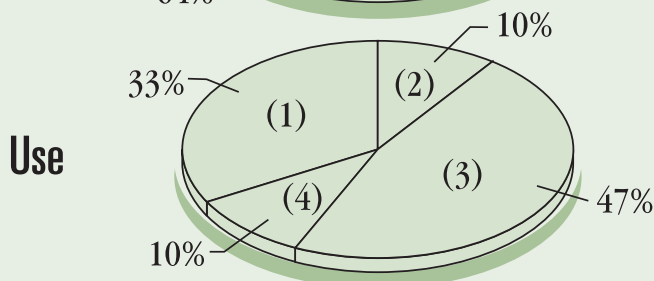
- Cancer: Its Causes and Treatments
- Environmental, Toxicological, and Radiological Health Sciences
- Infectious and Immunological Diseases
- Molecular, Cellular, and Integrative Neurosciences Program
- Reproductive Biology and Genetic Engineering
- Veterinary Medical Program
- Student Scholarship Support
- Orthopaedic Research Program
- Human-Animal Bond Programs ■

Report on Private Giving – Gift Analysis

Total: \$12,233,359 (Calendar Year 2002)



1. Business/Corporations – 14%
2. Friends – 64%
3. Foundations/Organizations – 17.5%
4. Alumni – 2%
5. Trusts/Estates – 2%
6. Faculty/Staff – 0.5%



1. Research – 33%
2. Student Assistance – 10%
3. Buildings and Equipment – 47%
4. Academic Programs – 10%

University Chairs and Professorships

The College of Veterinary Medicine and Biomedical Sciences is honored to have eight Named University Chairs and Professorships within its departments. University Chairs and Professorships are faculty positions that are funded through private endowments.

Faculty members selected for a Chair or Professorship are outstanding in their field of study, gifted teachers and researchers, and internationally known for their work. The title of University Chair is one of the highest honors Colorado State University can award to a faculty member.

The current Chairs and Professorships as of December 31, 2002 are:

- The John Alexander Chair in Large Animal Reproduction
- The Barbara Cox Anthony University Chair in Oncology
- The Barbara Cox Anthony University Chair in Orthopaedic Research
- The General H. Norman Schwarzkopf Professorship in Surgical Oncology
- The Kenneth W. Smith Professorship in Small Animal Clinical Veterinary Medicine
- The Stuart Chair in Oncology
- The Mabel I. and Henry H. Traubert Professorship in Animal Genetics
- The University Chair in Orthopaedic Research

Additional new funds include the VTH Tribute Garden, Livestock Production, Global Equine Orthopaedic Research Alliance, Custer Cardiology, Joseph C. and Cora E. Mumford Endowment, Equine Medicine Clinical Services and Research, Racetrack Surface Research, Public and Animal Biosecurity Research, Shockwave Therapy, Pet Hospice, Tumor Immunology Research, SCAVMA Advanced Technology, and Bismarck Canine Cancer Research. ■

Scholarships and Awards

One of the top priorities for the College of Veterinary Medicine and Biomedical Sciences is scholarship support for students in our undergraduate and graduate programs. Financial hardship is increasingly a restrictive factor for students seeking a degree, and the College and its donors are working hard to help as many students as possible overcome this burden.

This year, as in years past, support from donors to the College's scholarship program has increased. For the school year 2002-2003, the College distributed 376 scholarships and awards, with a total dollar amount of \$878,180, slightly higher than the previous year.

For many students, these scholarships mean the difference between successfully completing a degree and having to quit school for lack of resources. For these students, receiving a scholarship means opportunity. It's with this in mind that we thank all of you who contribute so generously to the scholarship and awards program.

We have a number of new scholarships to give special recognition to this year. Dr. Lynn Leadbetter and family have established a newly endowed scholarship. Three new pending endowed scholarships created this year are the DVM Class of 1976 Scholarship, the

George Holzer Memorial Scholarship, and the Bismarck Scholarship.

Creating New Scholarships

Several ways exist for alumni, friends, corporations, associations, and organizations to create scholarships and fellowships at Colorado State University.

Expendable Fund

Expendable funds are used to create annual scholarships and fellowships. A minimum gift of \$500 opens a named scholarship expendable fund account.

Pending Endowment Fund

Pending endowment funds eventually become true endowment funds for scholarship use when gifts total \$25,000. A fund may be a pending endowment for a period not to exceed five years, with all earnings reinvested during the five-year period. If \$25,000 is not accumulated through gifts and interest earnings within five years, the pending endowment becomes an expendable fund.

Endowment Fund

If you wish to establish an endowment, your gift will create a perpetual source of funding for scholarship use. The principal of the endowment remains intact, while earned income is used to support student scholarships. A minimum gift or combination of gifts totaling \$25,000 establishes a named scholarship for restricted use. ■

Endowed Scholarships and Awards

Abney Foundation Scholarship
David Adams Memorial Scholarship
John Alexander Memorial Scholarship
Dr. D. Warner Anderson Scholarship
Arizona Horse Lovers Foundation
Scholarship
G. Bill Atchison Memorial Scholarship

James C. Beckley, D.V.M. Scholarship
in memory of Bruce (Bud) Elwood
Brownson
Bismarck Scholarship
Blackstock Scholarship
Beulah and Doyle Blair Memorial
Scholarship

Endowed Scholarships and Awards

- George S. Calderwood Memorial Scholarship
 Edward J. Carroll Memorial Scholarship
 Cole Memorial Scholarship
 Colorado Environmental Health Association Scholarship
 Colorado Kennel Club/Agnes Miner Memorial Scholarship
 Colorado Veterinary Medical Association Scholarship
 Leo F. and Doris M. Conti Scholarship
 Erin Corcoran Memorial Scholarship
 Lisa Marie Craft Memorial Graduate Scholarship
 Floyd Cross Memorial Award
 CVMBS Endowment Board Scholarship
 Dr. and Mrs. Robert W. Davis Veterinary Anatomy Scholarship
 James D. DeField Memorial Scholarship
 DVM Class of 1944 Scholarship
 DVM Class of 1950 Scholarship
 DVM Class of 1961 Scholarship
 DVM Class of 1962 Scholarship
 DVM Class of 1963 Scholarship
 DVM Class of 1964 Scholarship
 DVM Class of 1968 Scholarship
 DVM Class of 1976 Scholarship
 DVM Class of 2003/2004 Scholarship
 DVM Class of 2005 Scholarship
 James N. Dupree Scholarship
 Equestrian Trust Scholarship
 Barbara (Bobi) Fleischaker and Bill Sallada Memorial Scholarship
 Kathleen Foster Memorial Scholarship
 Gallatin Dog Club Scholarship
 Mark A. Gearhart Memorial Scholarship
 Richard and Dawn Goates Scholarship
 Dr. Reginald L. Gotchy Memorial Scholarship
 Pamela Hill Griffith Memorial Scholarship
 Dr. Joseph W. and Arlene R. Harrison Scholarship
 Roberta Ann Hartman Memorial Scholarship
 James P. and Kate A. Hatfield "Blarney" Memorial Scholarship
 Philip J. Hiebert Memorial Scholarship
 Dr. Joseph J. Hird Memorial Scholarship
 George L. Holzer Memorial Scholarship
 Ed H. Honnen Scholarship
 Dr. William A. Howarth Scholarship
 Joseph P. and Mable C. Howe Memorial Endowment Scholarship
 Tuffy Huber Scholarship
 Dr. Robert G. Hutchinson Memorial Scholarship
 Harold Ingersoll Scholarship
 C. Heyward Jenkins Memorial Scholarship
 Lois and Harry Johnson Scholarship
 C. Trueman and Elizabeth J. Jones Memorial Scholarship
 Jorgensen Laboratories Scholarship
 Lisa Akemi Kawai Memorial Scholarship
 Drs. Hilan and Evelyn Keagy Scholarship
 Kingman ILM Fund
 Nick Klaich Memorial Scholarship
 Dr. Merrill and Elizabeth Koster Scholarship
 Ken Lawson Veterinary Scholarship
 Dr. Lynn Leadbetter Family Scholarship
 Josephine C. Linger Memorial Scholarship
 Dr. William J. Long Memorial Scholarship
 Kirke L. Martin Memorial Scholarship
 Dr. J. Cecil Matlock Veterinary Medicine Scholarship
 Mathews Foundation/CVMBS Honors Program Scholarship
 Dean A. and Lillian S. McDermott Scholarship
 Eugene A. and Alice J. McHale Scholarship
 Dr. Mark U. McKie Memorial Scholarship
 Hermann Meyer Veterinary Anatomy Scholarship
 Dr. Donna S. Minion Memorial Scholarship
 Sumner M. Morrison Memorial Scholarship
 Mortimer/Beef Today/Elanco Scholarship
 Dr. Timothy Dwayne Muhr Memorial Scholarship
 New Mexico Veterinary Medical Association Memorial Scholarship
 Isaac E. Newsom Memorial Scholarship
 Rowena Odell Scholarship
 Don B. Olsen, D.V.M. – Ph.D. Fellowship Award
 Afton Silver Osguthorpe Memorial Scholarship
 Paul G. and Ruth R. Palmer Scholarship
 Patridge Family Scholarship
 Dr. Dean Pavillard Scholarship
 Dr. Virgil L. Pennell Memorial Scholarship
 Dr. R. Barry Prynne Memorial Scholarship
 J. R. Puckett Memorial Scholarship
 Dr. William K. Riddell Memorial Graduate Scholarship
 Dr. William K. Riddell Memorial Scholarship
 Russell F. Rose III Memorial Scholarship
 N. A. and Jone Rothenberg Scholarship
 Robert Rubin and Maurice S. Shahan Memorial Award
 Salsbury Scholarship
 SCAVMA Scholarship Endowment
 A. William Schramm Memorial Scholarship
 Phyllis and Lyle Schwieder Scholarship
 SDH Endowed Scholarship
 Gerald J. Shiner, D.V.M. Memorial Scholarship
 Dr. Philip E. Sims Memorial Scholarship
 Clarence and Trulie Snyder Memorial Scholarship
 Tom Spurgeon and Patricia Brooks Memorial Scholarship
 France Stone Scholarship
 Carlton Sundberg Memorial Scholarship
 Raymond Swift Memorial Scholarship
 Alice Bracey Taylor Memorial Scholarship
 Thimmig Family Scholarship
 Dr. Bob Toombs Memorial Scholarship
 Dr. Earl Turner, Class of 1966, Memorial Scholarship
 United Track Racing Mile High Greyhound Park Scholarship in honor of Benjamin T. Poxson
 Thomas Edmund and Grace M. Utley Scholarship
 Dr. Clark D. Vanderhoff Professional Veterinary Medical Scholarship
 John H. Venable Memorial Scholarship
 J. L. Voss and A. O. McKinnon Equine Reproduction Research and Scholarship
 Ray T. Walker Memorial Scholarship
 Christopher Nels Westerberg Memorial Scholarship
 Gary Brett Williams Memorial Scholarship
 Luanne G. Williams Memorial Scholarship
 Dr. Virgil and Mitzzy H. Yount Memorial Scholarship ■

Annual Scholarships and Awards

Achievement Rewards for College
Scientists (ARCS) Foundation
Scholarship

American Veterinary Medical Foundation
Scholarship

John R. Bagby Award

Bernice Barbour Foundation

Baxter and Cindy Black Food Animal
Scholarship

Bil-Jac Foods, Inc.

Betty J. Jones – The Cassius Cat
Foundation Scholarship

Chappelle Small Animal Hospital
Scholarship

DVM Class of 1945

DVM Class of 1965

DVM Class of 1969

DVM Class of 1998

Dr. Frank Enos Memorial Scholarship

Environmental Health Scholarship

Frank and Gail Gerig Scholarship

Dr. Downing Glover Scholarship

Allan H. Hait/IDEXX

Hawaii Veterinary Medical Association
Scholarship

Hill's SCAVMA Pet Food Products
Scholarship

Iams Food for Thought Scholarship

Barbara Joyce Microbiology Scholarship

Larimer County Veterinary Medical
Association Scholarship

Polly McDonald Memorial Scholarship

Microbiology Undergraduate Scholarship
National Western Stock Show Scholarship

Nestle Purina Award for Excellence in
Companion Animal Nutrition

Pfizer Animal Health Outstanding Clinical
Resident's Award

Roaring Fork Kennel Club

Jofrid L. Torgersen Memorial Scholarship

Dr. John A. Utterback Memorial
Scholarship

Clark D. and Alice Vanderhoof
Scholarship

Vet Text Scholarship

Eula C. Voirol Veterinary Medicine
Scholarship ■

Recipient of First Kenneth W. Smith Professorship Announced

Dr. Michael R. Lappin, a professor, clinician, and researcher specializing in feline infectious diseases is the College's first recipient of the Kenneth W. Smith Professorship.

Dr. Lance Perryman, Dean of the College, and members of the Smith family presented the award to Dr. Lappin during the annual 50th Class Reunion dinner, part of the College's homecoming celebrations in October.

"First and foremost, it is wonderful that an award of this type has been created in the memory of Dr. Smith," Dr. Lappin said. "I am extremely honored to have been chosen by a jury of my peers to receive this award. This professorship will allow us to further the science of small animal medicine."

The Kenneth W. Smith Professorship was created to honor the life and work of Dr. Kenneth Smith, a graduate of the Professional Veterinary Medical Program and a longtime professor and clinician at the Veterinary Teaching Hospital. Dr. Smith, who died in 2000, was highly respected and much beloved by colleagues, clients, staff, and students at the school and in the community.

The professorship is awarded to a senior faculty member specializing in small animal care who is recognized for having clinical and teaching skills similar to those for which Dr. Smith was well known and respected. Dr. Lappin has been with Colorado State since 1988. His area of specialization is in feline infectious diseases and feline medicine. He holds numerous honors as a researcher and as a teacher.

"I am interested in the health of cats and of people who have cats, especially those cat owners who are HIV positive or living with cancer," Dr. Lappin said. "In my research, I've examined ways of providing the safest possible environment for cats and for people and I've found no reason for these cat owners to surrender their pets because it has been suggested that they present a health risk – quite the contrary, the benefits of cat ownership outweigh the risks in most situations."

Dr. Lappin has been engaged in cooperative research with Bayer Animal Health, Pharmacia, Schering-Plough, Fort Dodge Animal Health, and Heska Corporation. He has patents pending for new diagnostic tests related to main-

tenance of feline health. Dr. Lappin has studied diseases such as toxoplasmosis, cryptosporidiosis, and giardiasis, as well as health problems caused by blood parasites. In collaboration with the Heska Corporation, he is researching the possibility of testing cats for vaccine needs with a simple annual blood test instead of annual revaccination, thereby reducing many vaccine-related health problems for animals. ■

For graduates of the Professional Veterinary Medical Program at Colorado State University, large-size diplomas are now available for order. The 17" x 14" diplomas display with greater prominence, especially on the office walls of practicing veterinarians.

If you are interested, contact the Degree Office at (970) 491-7159, or by e-mail at DegreeOffice@colostate.edu. The cost of the diplomas is \$20, and the reprints are available for current as well as past graduates. ■

Miki Society for Companion Animals

The Miki Society for Companion Animals, founded in 1988, supports research to help pets live longer and healthier lives. Gifts are made to the Miki Society by veterinarians, by pet owners and their friends, and by people who simply love animals. Many gifts are made in memory of a beloved pet.

Veterinarians participating in the Miki Society use the program to reach out to clients in sympathy and remembrance. When a client's pet dies, their veterinarian makes a Miki Society donation in the pet's name. The College then sends out a letter to the veterinarian's client, notifying them of the donation.

In 2002, Miki Society veterinarians and friends donated a total of \$45,979. Miki Society donations fund vital research at the College, including providing seed money for new research programs, enhancing existing research programs, and helping researchers to bridge funding gaps to encourage innovative research.

Projects funded through the Miki Society in 2002-2003 are:

- Drs. Heather Connally and Mary Anna Thrall received a \$15,000 grant to continue evaluating fomepizole, an alcohol dehydrogenase inhibitor, as an antidote for antifreeze (ethylene glycol) poisoning in cats. Alcohol dehydrogenase, a liver enzyme, is responsible for the formation of toxic metabolites of ethylene glycol. When this enzyme is inactivated, ethylene glycol is eliminated without causing renal failure.

The historic antidote for this common and often fatal poisoning has been ethanol, which competes for the active site on the enzyme, but ethanol has numerous disadvantages, including central nervous system depression. Although Dr. Thrall's group showed in the early 1980s that fomepizole was superior to ethanol for therapy of antifreeze poisoning in dogs, attempts to treat cats with the same dose of fomepizole have been unsuccessful. Dr. Connally's earlier research compared the interaction of

alcohol and fomepizole with feline and canine alcohol dehydrogenase *in vitro*; the results of these studies suggested that a six-fold higher dose of fomepizole would be an effective therapy for ethylene glycol-poisoned cats. This current study has shown that high-dose fomepizole in cats is a safe and more effective therapy for antifreeze poisoning than is ethanol and is also much less labor intensive. However, like ethanol, it only is effective at preventing acute, fatal kidney failure when treatment is instituted very quickly, usually within three hours of ingestion of antifreeze. As a result of this successful pilot study, a clinical trial now will be performed, in which owners of cats with antifreeze poisoning will be offered the option of fomepizole therapy. Early diagnosis and treatment remain critical for a successful outcome.

- Dr. Elizabeth Pluhar received \$21,000 to study dietary supplements that may have beneficial effects for dogs suffering from osteoarthritis. Research has shown that dietary supplementation with certain polyunsaturated fatty acids found in fish oil can have many beneficial biological effects. One of these effects is to control the levels of mediators of inflammation that are active in slowly progressive diseases such as osteoarthritis. Dietary supplementation with fish oil may reduce the production of substances that lead to joint degeneration and thereby slow or halt the progression of osteoarthritis. Fish oil added to a dry dog food has been shown to have beneficial effects in dogs with osteoarthritis of the stifle or knee joints. The study funded by the Miki Society will determine if oral fish oil caplets will have similar beneficial effects in dogs with painful joints from osteoarthritis by measuring levels of the inflammatory substances in blood and joint fluid and checking for improvement in the dogs' symptoms with gait analysis, joint range of motion, and subjective clinical orthopedic examinations.

- Dr. Cynthia Powell received \$11,000 to study uveitis in cats. Uveitis is one of the most common eye disorders of domestic cats, but the cause of uveitis often is not identified. The goal of Dr. Powell's research is to further define the pathogenesis of uveitis by using immunohistochemistry to identify lymphocyte subsets in the uveal tissues of cats with and without uveitis. Her research team also will try to prove a disease association with ocular infection by feline herpesvirus-1, *T. gondii* and *Bartonella spp.*, by using polymerase chain reaction testing to identify their DNA in ocular tissues of cats with uveitis.

- Dr. Kyra Somers received a \$6,500 grant to conduct further studies on Niemann-Pick C1 disease (NPC1), a rare, genetically inherited metabolic disorder. Patients with the progressively degenerative disease are not able to metabolize cholesterol and other lipids properly within the cell. Excessive amounts of cholesterol accumulate within the liver and spleen, and excessive amounts of other lipids accumulate in the brain. No effective treatments are available and the disease always results in death, typically in late childhood. Cats also are afflicted with Niemann-Pick C1 and are an excellent model for study of the disease in humans.

The goal of Dr. Somers' research proposal is to characterize the NPC1 protein in feline fibroblasts. The exact function of the NPC1 protein remains unknown, but the field is advancing rapidly, and an understanding of the function(s) for the NPC1 protein likely will be determined in the near future. The availability of both the rodent and feline models for NPC1 disease, along with antibodies that have been characterized to their respective NPC1 proteins, will play a pivotal role in understanding the pathogenesis of NPC1 disease and in the development of possible treatments for cats and people.

- Dr. Ralf Mueller received a \$3,000 grant to initiate a study exam-

Miki Society for Companion Animals

ining the use of bacteria to treat atopic dermatitis in dogs. Allergies are increasingly common in dogs and pose a challenge to veterinarians around the world for effective treatment. In Scandinavia, it was discovered that infants with atopic disease have a different population of intestinal bacteria compared to healthy babies. Researchers found that supplementing with the bacteria *Lactobacillus sp.* could change the immune response

in allergic children and prevent the onset of allergic disease. Dr. Mueller wants to find out if a similar approach will help treat atopic dermatitis in dogs. In a pilot study, his research team will supplement dogs with atopic dermatitis for eight weeks with *Lactobacilli* and evaluate the clinical signs as well as the allergen-specific T-cell response before and after supplementation. If there is a significant clinical improvement, he will further

evaluate *Lactobacillus* supplementation as a treatment for canine atopic dermatitis in a larger study.

Miki Contributors

Below is the list of veterinarians, clinics, and others who contributed to the Miki Society in 2002. We thank them for their continued support of research that will contribute to the quality and longevity of our pets' lives. ■

Graduates: Keep in Touch, Get Informed

The College's Development Office continues to reach out to alumni through our Class Agents to help keep our College in touch with the interests and needs of our graduates.

This year the College hopes to improve its ability to communicate with alumni by expanding our database to include e-mail addresses.

Having access to e-mail addresses will improve Class Agent communication with classmates on behalf of our College on a variety of topics and issues. As a result, our alumni gain better access to educational opportunities, seminars, and speakers and have a stronger voice

in the education of our graduates. The College benefits from increased and improved contact with alumni, greater awareness of the "front line" educational needs of the practicing veterinarian, and a better opportunity to keep pace with our rapidly changing profession.

The Development Office also continues to expand the services to graduates in terms of reunion planning and coordination. Class agents or class reunion coordinators work with Debby Morehead, Associate Director of Development on reunion logistics, while the Development Office handles paperwork including surveys and invitations.

"This is a continuation of our desire to provide better support to our alumni in terms of access to the College and improved services," said Morehead. "Dr. Perryman wants to keep alumni apace of what's going on at the College – especially as we face such highly publicized budget cuts – as well as seek input from our graduates on issues of higher education and professional development."

For information on anything regarding our College alumni activities, contact Morehead at (970) 491-2351 or e-mail her at debra.morehead@colostate.edu. ■