

WINTER  
1994

# Veterinary

medical review



**KRAEUCHI  
PROFESSORSHIP IN  
VETERINARY  
OPHTHALMOLOGY**

**PLUS**

Virginia Busch to give  
commencement address

International veterinarians

Mule team goes to the  
American Royal

COLLEGE OF VETERINARY MEDICINE AND COOPERATIVE EXTENSION SERVICE  
UNIVERSITY OF MISSOURI-COLUMBIA



# Veterinary

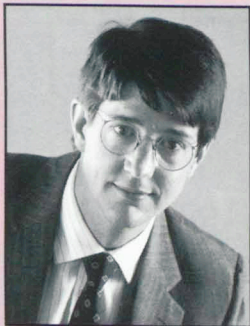
medical review

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## College selects new development officer



David A. Horner, Jr.

**A** proven fundraiser with an ability to develop successful strategies for meeting institutional goals has been chosen as the development officer for the College of Veterinary Medicine.

David A. Horner, Jr., of Columbia will start in early January as the college's new development officer. He is replacing Michael Tarry, who left the position last summer after serving the college for eight years. Tarry is working as director of financial development for the American Red Cross in Kansas City.

Horner, 37, comes to the college from his position as director of planned giving at Stephens College in Columbia. He has worked for more than 10 years in development. He graduated in 1981 from the University of Miami in Coral Gables, Fla.

Horner is married with two children. He is a board member of the National Society of Fundraising Executives and a charter member of the Metro Rotary Club of Columbia.

**ON THE COVER:** Veterinary ophthalmologist B. Keith Collins, assistant professor, uses a biomicroscope to examine the inside of a llama's eye. (photo by Don Connor)





**Y**our College of Veterinary Medicine is undergoing exciting changes as we build on the "centers of excellence" concept. We can not be "all things to all people," but we intend to develop nationally competitive programs in selected areas of veterinary medicine and biomedical research.

Realizing that MU's College of Veterinary Medicine is not as expansive as most other veterinary schools, we will be focusing resources into specific programs. We will be concentrating on areas that are most likely to be highly successful and to attract external investment in the college.

### **Educational Missions**

MU has a powerful reputation as a center that trains exceptionally well-qualified clinical veterinarians who "hit the ground running" when they enter veterinary medical practice. As the new dean, I have a real sense of responsibility to ensure our faculty has the resources and support to continue this proud Missouri tradition.

In addition, your college will be promoting its efforts in graduate education — training more students for master's degrees and doctorates as we increase our research activity.

### **Ophthalmology**

For the first time in its history, your college has an endowed professorship — the Ruth Kraeuchi Professorship in Veterinary Ophthalmology! Thanks to Mrs. Kraeuchi's generous bequest, your college now has the opportunity to develop a veterinary ophthalmology and ophthalmology "center of excellence" that will be among the nation's best. This is truly an exciting event for your college!

In later issues of the *Veterinary Medical Review*, we will be sharing our ideas — and seeking yours — for ways to create other endowed professorships.

### **Future Plans**

The college's academic departments are preparing five-year research and education plans. We are taking a self-critical look into the future for developing state-of-the-art teaching techniques, clinical services, and research programs as we prepare for the 21st century. From these faculty-driven plans, the college will be developing centers of excellence.

Your college is fortunate already in having several successful programs anticipated to flourish and grow. These include programs aimed at blood diseases, cardiovascular diseases, comparative medicine, gastroenterology, laboratory animal medicine, molecular biology, ophthalmology and reproductive biology.

Another area being considered involves raptures — the "big birds" of veterinary medicine. Ostriches and emu are rapidly becoming an alternative livestock industry experiencing rapid growth in Missouri, and this college is deciding how to best address the veterinary medical and diagnostic needs of this emerging industry.

The college also is continuing to develop strong programs benefiting Missouri's livestock industry through participation in MU's Commercial Agriculture Program.

Superimposed on all these activities is the state's Veterinary Medical Diagnostic Laboratory, an integral component of the college as well as the principal state monitor of infectious diseases that impact the health and well-being of all Missouri citizens and their animals.

### **New Additions**

The Department of Veterinary Medicine and Surgery has a new chairman! Dr. Joe N. Kornegay, former professor of Neurology at the College of Veterinary Medicine at North Carolina State University, has joined Mizzou.

Dr. Kornegay is board-certified in veterinary internal medicine, specialty area of neurology, and he has achieved exceptional academic accomplishments in clinical service (neurosurgery), teaching and research. Accompanying Joe to Columbia are his wife, Janet, and their two young daughters. He has asked me to extend an invitation for individuals to contact him personally for sharing ideas about the importance to Missouri of our new Veterinary Teaching Hospital, Clydesdale Hall, and the Department of Veterinary Medicine and Surgery.

This college is also seeking new chairs of Veterinary Biomedical Sciences and Veterinary Microbiology, and also a new associate dean of academic affairs. We would welcome any comments or suggestions you may wish to share as we search for outstanding candidates to fill these critically important positions.

As you can see, exciting things are under way at your college — Missouri's only College of Veterinary Medicine. Remember, the coffee is always hot, and we're always glad to see you here. Please feel free to drop by, write or telephone. We want to hear your suggestions and ideas.

Best wishes,



H. Richard Adams, DVM  
Dean

## **Setting our sights on becoming a center of excellence**



Dr. H. Richard Adams



# Kraeuchi Professorship in Veterinary Ophthalmology Approved as the College's First Endowed Position

by Jeff Barrow

*"The academic freedom of this position offers potential that is truly exciting," Moore said. "At this time, the unit's clinical studies are case-oriented and case-driven. The endowment will allow the unit to step up to the next level to explore the basic science of eye disease."*



A steadily growing ophthalmology unit at the College of Veterinary Medicine has received a major boost from a recently approved endowed professorship — the only endowed position for veterinary ophthalmology in North America.

"A goal of the campus is to focus on certain areas, and this (endowed professorship) gives the college an opportunity to enhance veterinary ophthalmology," said Cecil P. Moore, interim associate chairman of medicine and surgery. "This is part of a broad-based effort to establish programs of national stature."

Moore, who is a board-certified veterinary ophthalmologist, is heading up a six-member search committee to review candidates for the Ruth M. Kraeuchi Professorship in Veterinary Ophthalmology — the College of Veterinary Medicine's first endowed professorship.

This newly endowed position was approved by the University with an anticipated starting date of July 1, 1994. The \$700,000 endowment will finance the research component of the professorship, and the University will pay the base salary. The advocacy of Dean H. Richard Adams was instrumental in facilitating the University's full support for this post.

The Kraeuchi Professorship offers a unique opportunity for a highly motivated

academician to develop a focused research effort in ophthalmology and to contribute substantially to established veterinary ophthalmology programs at MU. Since 1986, the ophthalmology unit has grown steadily and now provides multispecies clinical services, and both a didactic course and a two-week rotation for veterinary students. The unit also offers a residency training program and publishes results from clinical studies.

The six-person veterinary ophthalmology unit currently consists of three American College of Veterinary Ophthalmology (ACVO) board-certified veterinary ophthalmologists (two clinicians and a pathologist/clinician), two postgraduate trainees (a resident/graduate student and a pathology graduate student) and a veterinary technician.

"The academic freedom of this position offers potential that is truly exciting," Moore said. "At this time, the unit's clinical studies are case-oriented and case-driven. The endowment will allow the unit to step up to the next level to explore the basic science of eye disease."

The successful applicant will be charged with developing a sustained, extramurally-funded research program investigating spontaneous and experimental eye diseases. Development of animal models of human eye diseases will be encouraged. In fact,





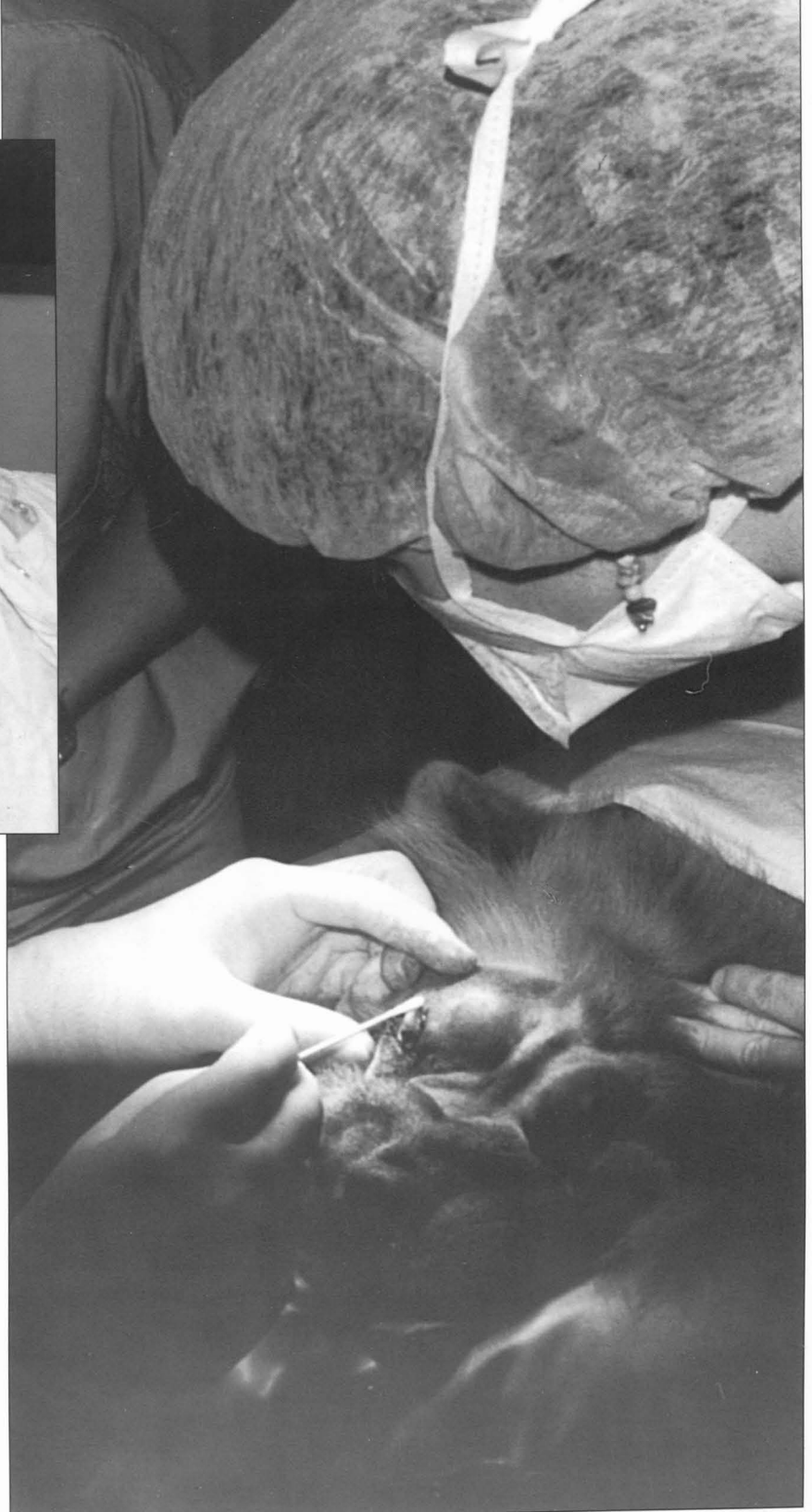
one members of the search committee is from MU's medical school to assure that this perspective is kept in reviewing prospective candidates.

The college is looking for a Kraeuchi professor who is a program builder and an active team member. The professor will be expected to provide leadership in developing and coordinating unit-wide research programs and in contributing to graduate training programs.

"We anticipate that the person coming in to this position will contribute significantly to our postgraduate program," Moore said.

Highly qualified scientists with well-established research programs are being encouraged to apply. The search committee hopes to attract an ACVO board-certified veterinary ophthalmologist with dual training and interest in research and clinical ophthalmology. This dual capability is desirable because there is an opportunity at the college to develop state-of-the-art clinical ophthalmologic procedures such as laser therapy and implant/transplant surgery.

Candidates must be qualified at the academic level of professor or associate professor. For more information about this position, write or call Dr. Cecil P. Moore, A337 Veterinary Teaching Hospital, 379 E. Campus Drive, Columbia, Missouri 65211, (314) 882-7821.



**Above left: Veterinary ophthalmologist Cecil P. Moore performs surgery on a Shar Pei dog to remove excess tissue from the eyelids.**

**Above: An assisting veterinary student concentrates as the surgery proceeds. Student involvement in surgical procedures is a powerful teaching tool used by the college in preparing future veterinarians.**

*photos by Jeff Barrow*



# BOEVER SERVES AS DIRECTOR OF ZOOLOGICAL OPERATIONS

by Jeff Barrow

**William Boever, DVM '70**, started working nearly 25 years ago at the St. Louis Zoo as a veterinary student and has risen to become director of Zoological Operations. In the course of two decades, he has seen the expansion of both the role and the number of zoo veterinarians, and has witnessed significant changes in the philosophy and

1960s at the St. Louis Zoo during summer breaks as a veterinary student at MU, and was hired in 1970 as a clinical veterinarian at the zoo.

"When I first started I had an open mind and was interested in all aspects of veterinary medicine," Boever said. "I saw that in a zoo situation, the veterinarian has to work within a large organization as part of a team. In private practice, the veterinarian has the final say. A zoo veterinarian works with curators, keepers and administration to accomplish the goals of the organization."

Boever was attracted by the challenges of working with non-domesticated animals. When he started his job in 1970 there was scant knowledge about handling and treating zoo animals. Some zoos simply replaced animals with new stock.

"Dealing with non-domesticated animals is frustrating, but it is also challenging and rewarding," Boever said. "Sometimes it is difficult to determine the diagnosis, or you know the diagnosis but the animal is not cooperative. Imagine putting drops in a gorilla's eye three times a day or a bear that chews its cast off."

The field of zoo medicine has grown dramatically with the expanding knowledge of anesthetics and immobilization techniques (particularly experience in the use of capture guns). In 1970, there were about 30 veterinarians working full time in U.S. zoos. In 1993, there are about 250 full-time veterinarians, and some zoos have two or three veterinarians on staff.

Boever was one of eight charter diplomates of the American College of Zoological Medicine, a group that included fellow MU alumnus George Kollias, DVM '72. As

**"Vets are involved in all aspects of zoo research, and as they learn more, they are becoming crucial to the species survival plan. Almost any research activity requires veterinary input."**



William Boever

mission of zoological operations.

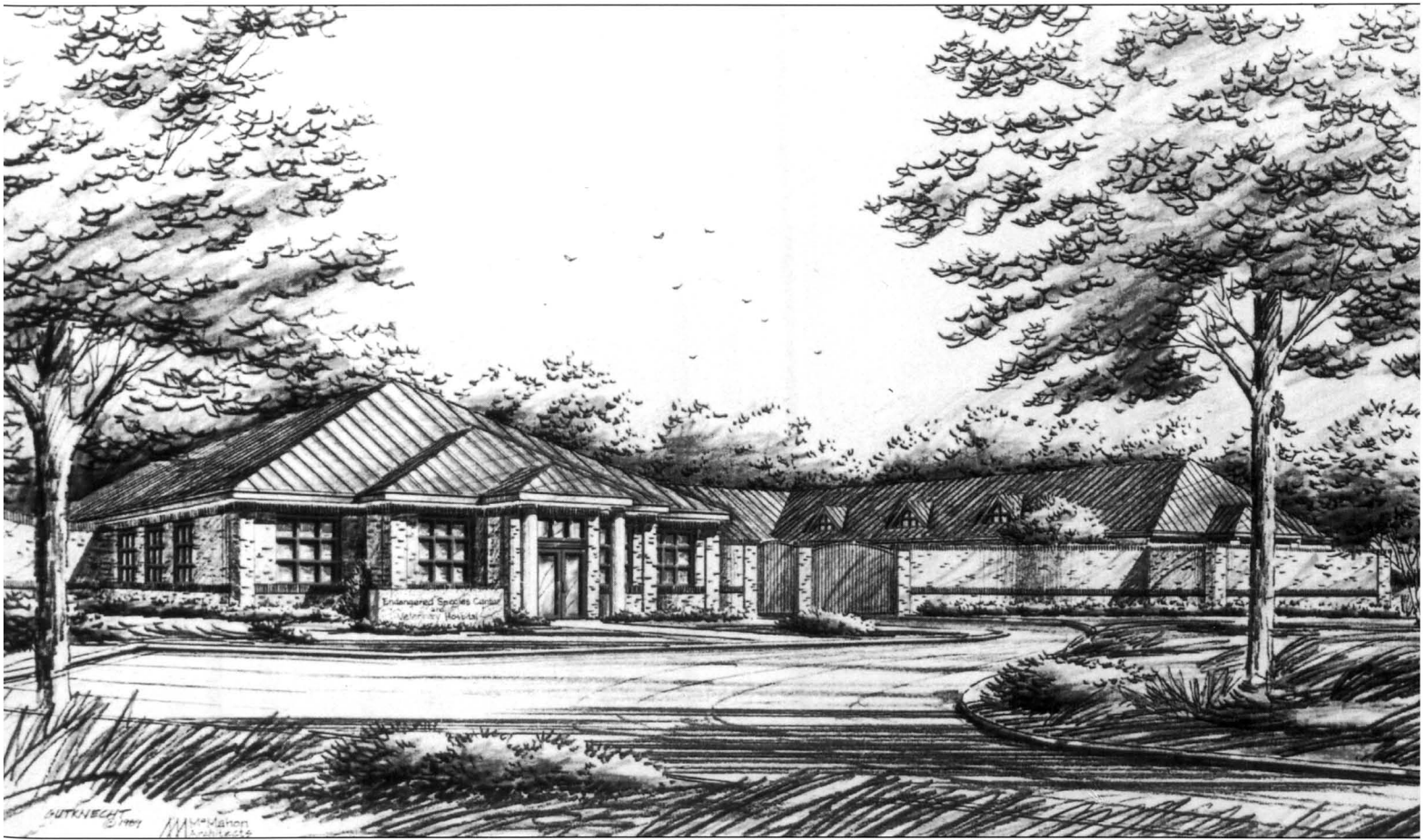
"Zoos have changed," Boever said. "There is an appreciation of endangered species and an understanding of environmental concerns. Zoos now serve to educate the public, to conserve species and to conduct research."

In his role as director of operations, Boever said he no longer is involved with clinical care of individual animals. He is part of administration at the zoo where he oversees research, animal health, animal care and education.

"Everything but business aspects," he said.

Boever is one of the pioneers of modern zoo medicine. He started working in the late





charter members, they helped determine testing procedures and requirements for certifying new members.

"Veterinarians are really capable of providing good services, and more than just clinical services," Boever said. "Vets are involved in all aspects of zoo research, and as they learn more, they are becoming crucial to the species survival plan. Almost any research activity requires veterinary input."

All zoos in North America are joining forces to develop a series of species survival plans (SSP) for their animals. There are currently 67 SSPs in operation, and the St. Louis Zoo is involved with SSPs for species including Siberian tigers, cheetahs and black lemurs.

"We are managing for the betterment of the species rather than the benefit of any particular zoo," Boever said. "Each zoo with a collection has a representative. A steering committee makes management decisions as to what happens to that species."

Zoo managers are now working closely with geneticists in caring for zoo animals. Zoo managers are concerned about the health of individual animals, of course, but they are now focused on bloodlines, demo-

graphics and sex ratios.

In St. Louis this summer, the zoo opened a new hospital for endangered species. The \$3.5 million facility is five times larger than the zoo's former hospital, and includes research labs and a pavilion to educate the public.

"The research labs are out facing the street, not hidden in the back of the zoo," Boever said. "We want the public to know what we are doing."

Along with the Living World center at the zoo, Boever said the new endangered species hospital is a statement that the zoo's philosophy emphasizes education and conservation.

As a pioneer in zoo medicine, Boever brings an overarching perspective to the changes in zoo philosophy and purpose. He has been director of research in St. Louis since 1978, and his advancement to director of zoological operations continues a trend in zoo management.

"There are other veterinarians who are directors of zoos — it's not that unique," Boever said of his post. "I think veterinarians have an excellent perspective and background to offer management skills as well as clinical expertise at zoos."

An artist's rendition of the St. Louis Zoo's endangered species hospital building.



by Jeff Barrow

## Bendick works with international vet mission



**A** working journey to a third-world country can be a life-changing experience. Just ask **Fred Bendick, DVM '70**, who has been twice to southern Kenya on Christian Veterinary Missions to work with the Masai people. He will tell you about the primitive conditions, the lack of modern conveniences and the kindness and pride of the people.

"You have no concept of the third world until you go there, not even as a tourist," Bendick said. "You have a different realization of how other people live. It's very difficult to transfer across cultural lines.

"But you have a much better world perspective," he added. "Anyone who has the chance should go."

Bendick, who practices small-animal medicine at the Kirkwood (Mo.) Animal Hospital, first heard about the opportunity for work/travel with Christian Veterinary Mis-



**A**fter starting his veterinary career with dairy cattle, **Mark Riordan, DVM '86**, has switched his professional interests to dairy goats. He also has switched his residence — from the North African country of Morocco, where he lived for seven years, back to Niangua, Missouri.

He doesn't like working with cows after his experience serving as a veterinarian in the Peace Corps.

"(Working in Morocco) will really change your point of view," Riordan said. "If a cow dies the owner is crushed financially."

In Morocco, dairy cows live in close proximity to the house and therefore are considered a woman's concern. Since most families can afford only one cow, its health becomes crucial to the economic stability of the family.

"The loss of a cow devastates whole families," he said.

## Mark Riordan returns from Morocco



sions in 1988 when he stopped in Alabama for a veterinary conference on his way to Disneyworld in Florida. He decided he wanted to try it.

"It's not for everybody," he said. "The conditions are primitive and you're exposing yourself to health risks. But God blessed me with my profession, and this is my way to give back in service."

Bendick went in July 1989 to southern Kenya with his 19- and 21-year-old sons. He returned in October 1991 with **John Adams, DVM '70**, for another "short-term shuttle" of four to eight weeks. He said the Masai are such good herdsman that the veterinarians concentrated their work on teaching dosages for the cattle. He and his sons spent half their time helping to build a church building and a corn mill.

"Cattle are their whole existence," Bendick said of the Masai. "They know their herds better than they know their children."

After working in Ouarzazate Province on a program for mastitis prevention and calf care, Riordan helped start a program to breed and distribute dairy goats. The idea was to reduce the economic dependence on a single cow and replace it with four or five goats. The milk production is virtually identical, but the loss of a single animal does not destroy the family's financial security.

Riordan administered a dairy goat breeding station in the high desert area surrounded by the Atlas Mountains. The arid landscape is irrigated from mountain runoff and produces excellent alfalfa hay. But the climate is too hot for dairy cattle. Riordan said summer temperatures can soar to 115 degrees and winter brings frost and snow.

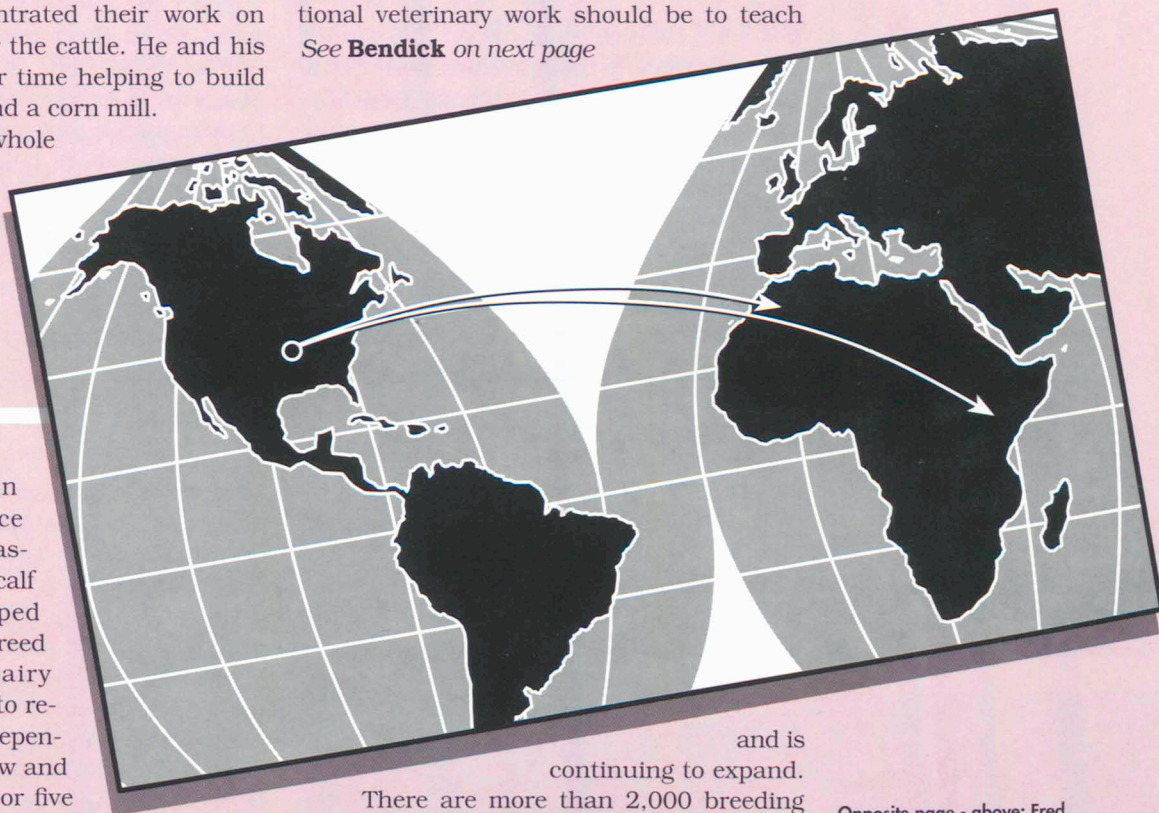
The breeding station sold goats at subsidized prices and on credit. The five-year distribution program targeted 150 families

Bendick said that Christian Veterinary Missions established five medicine shops in the high savannah area (elevation 7,000 feet) where the Masai live. The area reminded Bendick of Wyoming.

He said there are native terms for common diseases, and 95 percent of the conditions could be treated with tetracycline. Two other drugs would complete the Masai pharmacy — penicillin for pneumonia and ivermectin for internal parasites.

"With those three drugs you could practice from now until doomsday," Bendick said.

Bendick said the main role of international veterinary work should be to teach  
*See **Bendick** on next page*



and is continuing to expand. There are more than 2,000 breeding goats in the province.

Riordan tried to introduce nonsurgical embryo transplant techniques to increase the offspring of superior animals, but he ran into difficulties.

"The standard dose (of follicle stimulating drugs) resulted in too many follicles and not enough embryos," Riordan said. "We kept reducing the dose but it needs a lot of fine-tuning."

Riordan postulated the difference between embryo transfer in the U.S. and Morocco was a result of using different breeds raised and variation in diet and climate.

"A lot of techniques for treating goats  
*See **Riordan** on next page*

Opposite page - above: Fred Bendick, DVM '70, accepts a "manhood stick" from a Masai cattle herder.

Opposite page - below: Mark Riordan, DVM '86, discusses a horse's health in Morocco.

*contributed photos*



## **Bendick** *Continued from previous page*

people how to care for their livestock. He said we shouldn't be sending money and food, but education. The non-denominational Mission has a ministerial arm, but does not deny service to anyone on the basis of religion.

"We save a life three times," Bendick said. "First, the animal when we treat it and then a human when that animal is utilized for its food and fiber. Third, we offer the chance for eternal life by witnessing our faith at the same time."

Veterinary Christian Missions was established in 1976 and since then the Mission has sent 196 veterinarians on 353 shuttle missions to more than 35 third world countries, including Nepal, Ethiopia, Haiti, Bolivia and Cambodia. The Missions also support full-time missionary veterinarians.

"We don't compete with vets who live there," Bendick said. "We go to poor, rural countries."

Southern Kenya was difficult to travel

through and had no electric power, other than portable generators, Bendick said. The medicine shops used kerosene refrigerators to store heat-sensitive drugs. He said he was shaken by the extremely primitive conditions of the third world.

"It's hard when you come back. It takes a long time to come to grips with," he said. "We live in a different world. They don't want to be like us. They just want to be left alone with a chance for a decent life."

Although mission work is not for everyone, Bendick said all veterinarians can help support the missions. For example, he donates \$5 in the name of each euthanized animal at his clinic to Christian Veterinary Missions. His clients appreciate this chance to memorialize their pets.

The rewards of helping people who live on the edge of survival are intangible.

"Most veterinarians get more from the people than they gave," Bendick said. "The people are so open, sharing and kind."

## **Riordan** *Continued from previous page*

can transfer perfectly from North America to North Africa but a lot will not transfer," he said.

Riordan also helped establish a special one-year Peace Corps program for veterinarians. This program, which is half the

time commitment of regular Peace Corps volunteers, is an attractive opportunity for veterinarians who want to experience a foreign culture.

"It's definitely a good thing for new vets or retired vets," Riordan said.

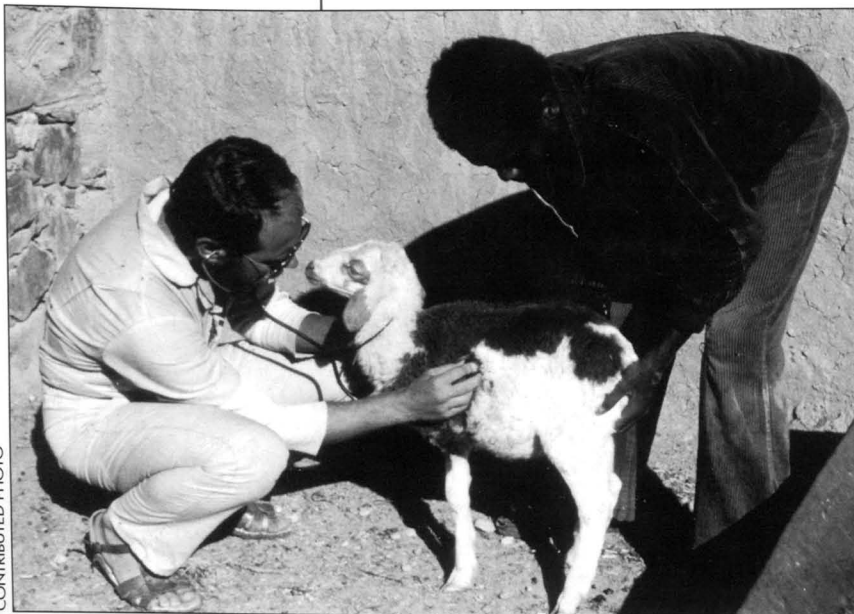
Riordan, who converted to Islam, has returned to Missouri with his Moroccan wife and their 2-year-old daughter. He is building a house on a 120-acres while studying for his licensing boards. He intends to open a drive-in practice for Angora and Boer goat breeds.

While he is now planning to settle in Missouri, he intends eventually to return to Morocco.

He said the North African country is a mixture of the ancient and modern. There are superhighways and television sets in the cities and 50,000 donkeys and 20,000 mules in the provinces. The Moslem culture has a special allure.

"It's really something you have to see to appreciate," Riordan said. "It's hard to explain, but there just isn't the noise and rush as in the 'States.' The culture shock is worse coming back to America."

Riordan examines a Moroccan goat.



CONTRIBUTED PHOTO



# Virginia Busch to give commencement address

**F**or the first time, a non-veterinarian will be presenting the commencement speech at the College of Veterinary Medicine's graduation ceremonies.

Virginia Busch, a St. Charles, Mo., attorney and enthusiastic supporter of veterinary medicine at MU, will be delivering her address next May to the Class of '94. She intends to talk about how she became involved with the college and why she continues to stay involved. She also wants to draw parallels between the professions of law and veterinary medicine.

"There are certain qualities that are common in every profession," she said. "Both attorneys and veterinarians must be responsive to the needs of their clients, and I've seen a certain consistency in the graduates of the (MU) vet school. It's a standard of professionalism that the school instills in its students. It's more than a job, it becomes a way of life, a philosophy."

Virginia Busch is married to August A. Busch III and they have four children. She hails from upstate New York, but currently lives on a 930-acre farm in St. Charles

County. The family keeps two Labrador Retrievers, four Himalaya cats, a nanny goat and "a couple of horses" on the farm. The Busch's also adopted four cats and three turkeys rescued from the 1993 floods.

Virginia Busch received both undergraduate and law degrees from Washington University in St. Louis. In addition to practicing law, she is involved with a variety of organizations including the Central Institute for the Deaf, the Washington University Law School, the Child Center of Our Lady, and the Variety Club of St. Louis. She is a trustee at the John Burroughs School. She was recognized this spring as 1992 Woman of the Year in St. Louis by the Variety Club.

Virginia Busch said she first became acquainted with MU's College of Veterinary Medicine when she admitted one of her cats to the teaching hospital. She said the quality of care displayed by the students, faculty and staff impressed her.

"I saw them providing a service that was above and beyond what was expected," she said. "It's very noticeable what goes on at the college. It's a very positive experience."



# Mule team performs



JEFF BARROW

Above: Barbara Gosser steadies the mule team as they prepare to enter the American Royal's arena for practice. Dr. Harvey Gosser is driving the team and Mule Club President Ron Miles rides "shotgun."

Above - right: Hilda and Louise trot out of the arena at the end of their performance in the "Concert of Champions." Seated from left, Michael Lorenz of Kansas State University, H. Richard Adams of MU, Dr. Harvey Gosser of MU, and John Saunders, director of the Missouri Department of Agriculture.

Right: Entering the corridor leading to the arena.



HOWARD SCHATZBERG

**H**ilda and Louise were decked out in shiny hooves and sparkling harness — a mule's equivalent to a person's formal attire — at American Royal's 1993 Concert of Champions in Kansas City, Mo.. The college's mascot mule team trotted to the "Missouri Waltz" played by the Kansas City Youth Symphony. The stunning pair may have been the first mule team to participate in the prestigious "black-tie" event.

The Concert of Champions is held each year at the beginning of the horse events at the American Royal. Horses of renown and their riders enter the arena for about three minutes as the orchestra plays accompany-



C.B. CHASTAIN



# at American Royal

ing music. In addition to the college's span of mules, the Budweiser Clydesdale team was one of the highlights of this year's concert. Several thousand spectators attend the event which is covered by local media.

Dr. Harvey Gosser, faculty adviser for the college's Mule Club, drove the team in the arena, and "riding shotgun" was John Saunders, director of the state Department of Agriculture. In the back of the wagon were seated two veterinary college deans, H. Richard Adams of MU and Michael Lorenz of Kansas State University. Tom and Betty Scott, college boosters from Kansas City, sponsored the team.

The mule team were transported to Kansas City and "dressed" for the event by members of the Mule Club. President Ron Miles and members Bruce Whittle, Paul Stonum and Doug Johnson rode in the wagon at the concert's finale as each participant took a final bow and one last turn around the arena. Mule Club members Kathy Stonum and Scott Mortenson did not ride in the arena but helped behind the scene to prepare the team.

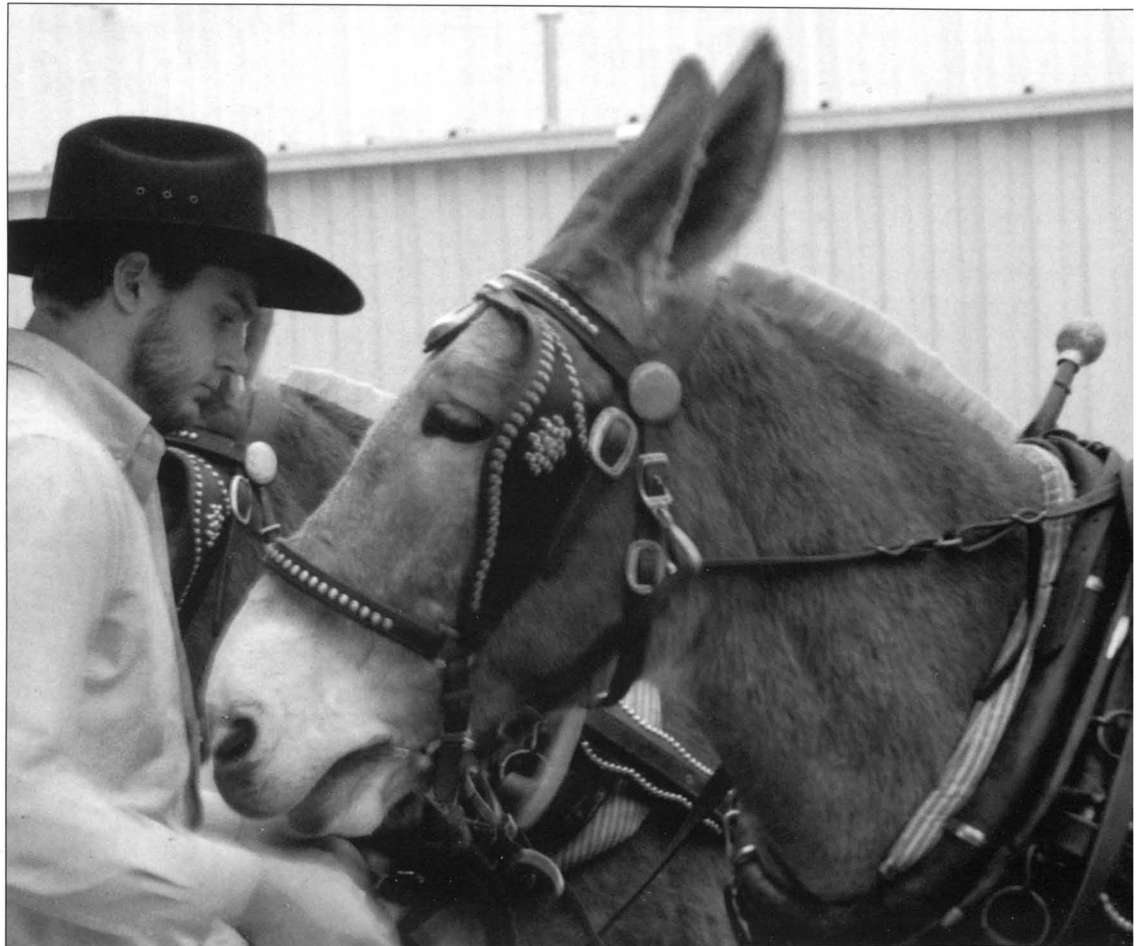


HOWARD SCHATZBERG

Above: Waving to the crowd while the symphony plays the "Missouri Waltz."

Below: Mule Club President Ron Miles holds the team as they are hitched to the wagon.

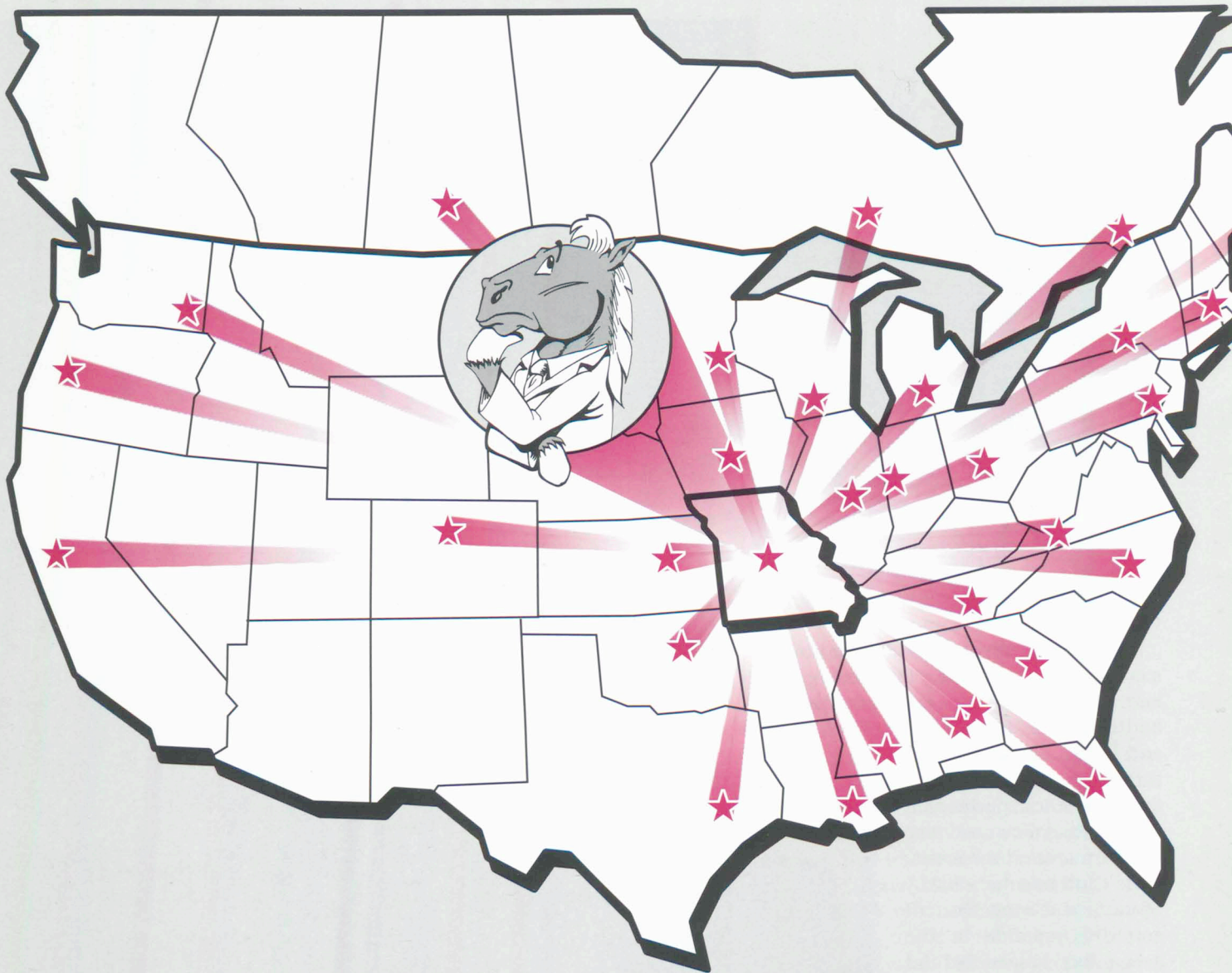
Dr. Gosser's wife, Barbara, also helped prepare Hilda and Louise for their turn in the spotlight. Delinda Volskay, a Mule Club member who assisted Dr. Robert E. "Bud" Hertzog for two weeks at the American Royal, stayed with the team before the event. Volskay and Roy Berghaus were MU veterinarian students who worked with two KSU students at the American Royal livestock and equine events. The American Royal organization contributed \$1,000 to the college's scholarship fund for the students' work.



JEFF BARROW







# MU students to host annual SAVMA symposium

**M**ore than 1,500 veterinary students from the United States and Canada will be coming to Columbia in March 1994 for the annual symposium of the Student American Veterinary Medical Association (SAVMA).

"For the College of Veterinary Medicine, this means a chance to showcase the new

teaching hospital and the quality of our faculty," said Bill Williams, VM '95, who is spearheading publicity for the event. "We wanted to show everyone the commitment Missouri has for veterinary medicine."

The three-day event will be hosted for the first time by the MU Student Chapter of the American Veterinary Medical Association (SCAVMA). The 1993 symposium was hosted at Auburn University in Alabama.

The 1994 symposium is called "Veterinary Horse Sense: Everything you wanted to know about veterinary medicine but were not taught in school." There will be a panel discussion about topics of interest to veterinarians, but not directly related to veterinarian academic and clinical training. This includes looking ahead at issues such as drugs and alcohol, religion, marital relations, and women in veterinary medicine.





In addition to these topics, the annual gathering of veterinary students will include lectures, workshops, veterinary games and athletic contests. The social activities include live bands, dancing, a comedy act and a banquet.

All symposium activities, including bus shuttles to campus events from area motels, is covered by the \$45 registration fee. Individual students pay transportation to Columbia and lodging while in Columbia.

More than 100 of the 250 MU veterinary students are involved on committees organizing the symposium. The details of the event are coming together with a lot of work, Williams said. However, a keynote speaker was still being sought at press time. James Herriott wrote a letter sending his regrets. He said he could not make the long-distance trip. No reply was received from an invitation sent to Jane Goodall in Tanzania. Under ideal conditions, an express package takes 10 to 14 days to reach the Tanzanian outback.

## College hosts vet school business administrators

The MU College of Veterinary Medicine and Kansas State University co-hosted in October the annual meeting of the Association of Business Officers and Hospital Administrators of the Veterinary Colleges of North America. More than 50 members of the association came to Missouri and Kansas from locations around the U.S. and Canada.

This is the second time in the association's 18-year history that MU hosted the convention, and MU is the only veterinary college that has been selected twice to host the convention.

In addition to touring Clydesdale Hall, the college's new teaching hospital, association members heard an inspiring speech by



CONTRIBUTED PHOTO

The association presented a plaque in appreciation of Hill's Pet Nutrition Inc. for many years supporting the veterinary colleges of North America, from left, MU's hospital administrator Ron Haffey, Dr. Jack Mara of Hill's Pet Nutrition, and Douglas Elcock, assistant dean for business affairs at Kansas State University.

Debbie Turner, DVM '91. Workshops and meetings rounded out the convention's activities. Members also enjoyed an afternoon reception at Les Bourgeois Winery located on bluffs overlooking the Missouri River.

Members of the Association of Business Officers and Hospital Administrators of the Veterinary Colleges of North America gather together at the base of the Columns in MU's Quadrangle. The group has changed its name to National American Veterinary College Administrators (NAVCA).



JEFF BARROW



## Biomedical Sciences

**Dr. John F. Amann**, associate professor.

### Publications:

J.F. Amann, R.E. Wharton, R.W. Madsen and M.H. Laughlin, "Comparison of Muscle Cell Fiber Types and Oxidative Capacity in Gracilis, Rectus, Femoris and Triceps Brachii Muscles in the Ferret (*Mustela putorius furo*) and the Domestic Dog (*Canis familiaris*)." *The Anatomical Record* 1993; 236:611-618.

**Dr. Lane L. Clarke**, assistant professor, received a \$30,857 grant from the Cystic Fibrosis Foundation for "Ion transport in an animal model of cystic fibrosis."

### Publications:

L.L. Clarke, S.E. Gabriel, R.C. Boucher and M.J. Stutts, "CFTR and the outward rectifying chloride channels are distinct proteins with a regulatory relationship." *Nature* 1993; 363:263-266.

**Dr. Gheorge M. Constantinescu**, professor, received in June 1993 a diploma of honorary membership in the Romanian Veterinary Medical Association.

### Publications:

"Comparison of the arteries of the pelvic cavity in the dog and cat" in the Annual Scientific Program of the American Association of Veterinary Anatomists 1993; 4:13.

"Concepts and principles of teaching veterinary anatomy, histology and embryology: Presentation from a world-wide survey and critical comments. Research Medicine Section of AFMA, annual meeting Minneapolis, Minn. The Scientific Program of the

American Association of Veterinary Anatomists 1993; 3:13.

**Dr. V.K. Ganjam**, professor, received a NIH grant to study "Effects of Estrogen in Prostate Function During Aging."

### Publications:

M.A. Memon, V.K. Ganjam, M.M. Pavletic and S.H. Selling, "Use of Human Chorionic Gonadotropin Stimulation Test to Detect a Retained Testis in the Cat." *J. Am. Vet. Med. Assoc.* 1993; 201:1602.

M.P. Hardy, D. Nonneman, V.K. Ganjam, and B.R. Zirkin, "Hormonal Control of Leydig Cell Differentiation and Mature Function." A chapter in *Understanding Male Infertility: Basic and Clinical Approaches*, editors R. Whitcomb and B.R. Zirkin, Sero Symposia 1993; 98:125-142.

S. Slight, V.K. Ganjam, D.J. Nonneman, K.T. Weber, "Glucocorticoid metabolism in the cardiac interstitium: 11 $\beta$ -hydroxysteroid dehydrogenase activity in cardiac fibroblasts" *J. Lab. Clin. Medicine* 1993; 122:180-187.

**Dr. Calvin C. Hale**, associate professor, received a National Heart Association grant of \$132,000 for three years for "The autoregulatory site of cardiac sodium-calcium exchange." Preliminary data derived from COR grant.

**Dr. Wade V. Welshons**, assistant professor, received a NIH grant to study the "Effects of estrogen on prostate function during aging." Publications:

R.J. Moffatt, W.G. Zollers, Jr., W.V. Welshons, K.R. Keiborz, H.A. Garverick and M.F. Smith, "Basis of norgestomet action as a progestin in cattle." *Domestic Animal Endocrinology* 1993; 10: 21-30.

## Combined Biomedical publications:

**R.M. McCallister, M.H. Laughlin and T.I. Musch**, "Effects of chronic heart failure on skeletal muscle vascular transport capacity of rats." *American J. Physiol.: Heart Circ. Physiol.* 1993; 264:H686-H691.

**M.D. Delp, R.M. McCallister, M.H. Laughlin**, "Exercise training alters endothelium-dependent vasoreactivity of rat abdominal aorta." *J. Appl. Physiol.* 1993; 75:1354-1363.

**W.V. Welshons, L.H. Grady, B.M. Judy, V.C. Jordan and D.E. Preziosi**, "Subcellular compartmentalization of MCF-7 estrogen receptor synthesis and degradation." *Molec. Cell. Endocrinology* 1993; 94:183-194.

**R.M. McCallister, J.F. Amann and M.H. Laughlin**, "Skeletal muscle fiber types and their vascular support." *J. Reconstr. Microsurg.* 1993; 9: 313-317.

**V.K. Ganjam, A.L. Goff, D.J. Nonneman, D.A. West, L. Dawson and W.V. Welshons**, "Regional Distribution of Androgen Receptors and 5 $\alpha$ -Reductase in the Equine Epididymis." *J. Reprod. Fert. (Suppl.)* 1992; 44: 670-671.

## Deans Office

### Publications:

**C.B. Chastain**, "The compendium challenge (feminizing testicular tumor)." *Compendium Contin Ed* 1993; 15:197-201

**J.L. Parker and H.R. Adams**, "Selective inhibition of endothelium-dependent vasodilator capacity by *Escherichia coli* endotoxemia." *Circulation Research* 1993; 72(3):539-551



## **Impact Award recognizes sustained efforts for college**

A new award this year is designed to recognize individuals who have demonstrated a long-term commitment to excellence at the College of Veterinary Medicine.

The Dean's Impact Award focuses on "a sustained and substantial body of contributions having long-lasting beneficial impact," according to a description of qualifications. The award is designed to recognize one or two individuals who have made a sustained, long-lasting contribution to the college.

Dean H. Richard Adams unveiled the Impact Award in May during the college's awards banquet.

"At any given time there are several dozen people who deserve recognition on a yearly basis, but we were looking for individuals who, over time, have made a positive impact," Adams said.

The first Impact Award went to two people — Associate Dean Kenneth Niemeyer, DVM '55, and Dr. Joe Wagner, chairman of pathology.

"This award is a way to recognize their commitment to excellence to the academic culture of the college," Adams said. "I cannot imagine two individuals with more commitment."

Both men received an engraved Hamilton watch and an individual plaque. In addition, a permanent plaque engraved with the names of award winners has been put on display at the college.

The award is expected to become an annual event. Nominees are selected by the dean after discussions with the college's executive committee, faculty policy committee and student officers.

"It was fun," Adams said. "I enjoyed the opportunity to be able to recognize in a formal way these two individuals who have contributed powerfully to the college over the years."

## **Merck Ag/Vet Award goes to MU professor**

Dr. Gary K. Allen, assistant professor of microbiology, was awarded national recognition for creativity in teaching from Merck Ag/Vet. Allen received the AgVet Award in recognition of his innovations for teaching immunology.

## **Kornegay accepts post at college**

Dr. Joe N. Kornegay will be arriving in 1994 to accept the position of chairman of medicine and surgery. He has served since 1986 as professor of neurology at the College of Veterinary Medicine at North Carolina State University in Raleigh.

Kornegay received his doctorate in veterinary medicine in 1973 from Texas A&M University and a PhD in veterinary pathology in 1982 from the University of Georgia.

In addition to receiving numerous teaching awards, Dr. Kornegay has been widely published for his research.

(EDITOR'S NOTE: A full profile of Dr. Kornegay will be published in the next edition of the Veterinary Medicine Review.)

## **Hahn elected president of veterinary informatics academy**

Dr. Allen W. Hahn, professor of medicine and surgery, was elected as president of the newly formed

American Academy of Veterinary Informatics. He will serve from July 1993 to July 1994.

Informatics deals with the organizational analysis and use of information and knowledge. It relies heavily on the digital computer to assist in that utilization. Veterinary informatics pertains to information in the discipline of veterinary medicine.

The group of veterinarians working in informatics has been organizing since 1989 and hopes to be approved in 1994 as the American College of Veterinary Informatics, which will certify individuals for membership. The goal of the academy this year is to submit a rationale for recognition as a specialty group of the AVMA. Several hundred veterinarians have requested information about qualifying for the academy.

## **MU vet serves as president of endoscopy society**

Dr. Brent Jones, associate professor of medicine and surgery, was elected president of the Comparative Endoscopy Society in May at its first organizational meeting in Washington, D.C. He will serve from one to two years.

"The University of Missouri leads the world in veterinary endoscopy," Jones said. "That's one of the reasons I was elected president."

The purpose of the society is to set standards with regard to procedures and equipment. The society also intends to provide educational opportunities to learn about emerging technologies and techniques of endoscopy.

As a non-invasive procedure, endoscopy is proving very popular in veterinary medicine. About 150-200 veterinarians have expressed an interest in joining the society.



**G.M. Buening and J.V. Figueroa**, "Detection of Babesia Begemina infection: Use of a DNA-Probe — A review." Mem Inst Oswaldo Cruz, Rio de Janeiro 1992; 87:207-211.

**J.A. Ramos, J.A. Alvarez, J.V. Figueroa, J. Solis, R.I. Rogriguez, R. Hernandez, G.M. Buening and C.A. Vega**, "Evaluation of a colorimetric Babesia Begemina - DNA probe within an epidemiological survey." Mem Inst Oswaldo Cruz, Rio de Janeiro 1992; 87:213-217.

#### Grants:

**G.M. Buening** received a small-instrument grant from the National Heart, Lung and Blood Institute.

### Diagnostic Laboratory

**Dr. G. Daniel Boon**, associate professor.

#### Publications:

G.D. Boon, "An Overview of Hemostasis" in Toxicol. Pathol. 1993; 21:170-179.

M.S. Whitney, G.D. Boon, A.H. Rebar, J.M. Story and G.D. Botoms, "Characterization of a familial hyperlipoproteinemia in miniature Schnauzer dogs" in J. Vet. Int. Med. 1993; 7:253-260.

J.A. Christian, A.H. Rebar, G.D. Boon and P.S. Low, "Senescence of canine biotinylated RBC's: Increased autologous immunoglobulin binding occurs on RBC's aged in vivo for 104 to 110 days" in Blood (in press).

#### Grants:

"Immunomodulation therapy for FeLV infection," American Animal Hospital Association Foundation, \$9,670 for two years.

"Effect of granulocyte colony-stimulation factor in equine granulocyte-macrophage colony forming cells in vitro" \$4,900 for a year.



Left: Dean H. Richard Adams congratulates Dr. Harvey Gosser.

### Pope Award recognizes Gosser's work at Diagnostic Lab

Harvey Gosser, director of MU's Veterinary Medical Diagnostic Laboratory, received in November the E.P. Pope Memorial Award from the American Association of Veterinary Laboratory Diagnosticians. The award is made annually to a worthy recipient who has made a noteworthy contribution to the organization, implementation and recognition of the specialty of veterinary diagnostic medicine.

"Techniques for preparation of canine allogenic fibrin glue and use in full-thickness skin grafts in dogs" \$3,601.14.

**Dr. Stan W. Casteel**, assistant professor, attended the 4th International Symposium on Poisonous Plants, Fremantle, Western Australia and presented "Computer-assisted diagnosis of plant poisoning," "Hepatotoxicosis in cattle induced by consumption of alfalfa-grass hay," and "Chronic toxicity of fumonisin in weanling pigs."

**Dr. George E. Rottinghaus**, associate professor.

#### Publications:

G.B. Garner, G.E. Rottinghaus, C.N. Cornell and H. Testeric, "Chemistry of compounds associated with endophyte/grass interaction: ergovaline and ergopeptine-related alkaloids" in J. Agric Ecosystems Environ 1993; 44:65-80.

N.S. Hill, G.E. Rottinghaus, C.S. Agee and L.M. Schultz, "Simplified sample preparation for HPLC analysis of ergovaline in tall fescue" in Crop Sci 1993; 33:331-333.

G.E. Rottinghaus, L.M. Schultz, P.F. Ross and N.S. Hill, "An HPLC method for the detec-



tion of ergot contamination in ground feedstuffs" in *J. Vet. Diag. Invest.* 1993; 5:242-247.

*Book Chapter:*

G.B. Garner, G.E. Rottinghaus, C.N. Cornell, and H. Testericci, "Chemistry of compounds associated with endophyte/grass interaction: Ergovaline and egopeptine related alkaloids" in *Acremonium'/Grass Interactions*, editors R. Joost and S. Quisenberry, Elsevier Science Publishers B.V. Amsterdam, pp. 65-80 1993.

*Grants:*

D.E. Spiers (P.I.), G.B. Garner and G.E. Rottinghaus, "A thermoregulatory model of fescue toxicosis," UM Research Board Grant, \$32,480, 1993-1994.

## Medicine & Surgery

**Dr. Keith R. Branson**, assistant professor.

*Publications:*

K.R. Branson, J.C.H. Ko, W.J. Tranquilli, J. Benson and J.C. Thurmon, "Duration of analgesia induced by epidurally administered morphine and medetomidine in dogs" in *J. Vet. Pharmacol. Therap.* 1993; 16: 369-372.

K.R. Branson, G.J. Benson, J.C. Thurmon, W.A. Olson, W.J. Tranquilli and J.L. Dorner, "The hemodynamic, tissue oxygenation, and selected biochemical effects of isoflurane and halothane anesthesia in horses" in *J. of Equine Vet. Sci.* 1993; 13, (7):369-409.

**W.F. Braun, Jr.**, associate professor, "When the patient is a pig—providing basic care for potbellied pigs." pg 412; "Helping your clients raise healthy potbellied pigs." pg 414; "Reproduction in the potbellied pigs." pgs 429-434; "Anesthetics and surgical techniques useful in the

potbellied pig." pgs 441-447. *Vet. Med.* 88: 1993.

**A.P. Carr**, intern, "Hemostasis: Disorders and diagnostic methods." *Vet. Tech.* 1993; 14:431.

**R.M. Corwin**, professor, "Fecal shedding of *Toxocara canis* and *Ancylostoma caninum* eggs by dogs receiving commercial anthelmintics — Pharmacology." *Canine Pract* 1993; 18:7-12

**Dr. B. Keith Collins**, assistant professor, presented "Ophthalmology Potpourri" to the Golden Triangle Veterinary Association in Guelph, Canada. He published "Helpful hints for horse eyes." *Vet. Tech.* 1993; 14:418.

**M.E. Gross**, assistant professor, "Waste anesthetic gas — what veterinarians should know." *Vet. Med.* 1993; 88:331.

**D.K. Hardin**, veterinary extension/CE director, "Fertility and infertility assessment by review of records." *Vet Clin North Am (Food An Pract)* 1993; 2:389-403.

**Dr. Brent Jones**, associate professor, gave presentations at the World Congress of the World Small Animal Veterinary Association in Berlin, Germany, and at the Austrian Small Animal Veterinary Medical Association in Kitzbuhel, Austria.

**Dr. Kevin G. Keegan**, assistant professor.

*Publications:*

K.G. Keegan, A.R. Twardock, J.M. Losonsky, et al., "Scintigraphic evaluation of fractures of the distal phalanx in horses — 27 cases (1979-1988)." *J. Am. Vet. Med. Assoc.* 1993; 202:1993-1997.

**Dr. Clifton Murphy**, clinical associate professor, was in Costa Rica to collect and freeze embryos and to conduct training courses in embryo transfer at CATIE and Earth Schools.

**R.F. Randle**, ruminant health extension specialist, "Production medicine considerations for enhanced reproductive performance in beef herds." *Vet Clin. North Am. (Food An Pract)* 1993; 2:405-415.

## Combined Medicine & Surgery publications:

**S.J. Gentry, F.A. Mann**, "Postoperative care of canine and feline orthopedic patients." *J. Am. Anim. Hosp. Assoc.* 1993; 29:146-150.

**R.S. Youngquist, W.F. Braun**, "Abnormalities of the tubular genital organs." *Female Bovine Infertility* 1993; 9:749-720.

**L.L. Linton, C.P. Moore and L.L. Collier**, "Bilateral lipid keratopathy in a boxer dog - cholesterol analyses and dietary management." *Prog. Vet. Comp. Ophthalmol.* 1993; 3:9-14.

**B.K. Collins, L.L. Collier and J.S. Collins**, "Retinal and lenticular lesions in vitamin-C-deficient juvenile red drum, *Sciaenops ocellatus(L.)*." *J. Fish Dis.* 1993; 16:229-237.

## Microbiology

**Dr. John N. Berg**, professor, received a Schering-Plough Corporation grant for \$48,000, "Dose titration study: SCH51854 canine tablets."

**Dr. C. Andrew Carson**, professor and chairman, attended the meeting of W.H.O. Collaborating Center Directors at Pan American health Organization in



Washington, D.C. He participated in the meeting of W.H.O. Collaborating Centers on "Food Protection in the Americas," University of Wisconsin, W.H.O. Collaborating Center on Food Virology and the Food Research Institute.

**Dr. Robert M. Corwin**, professor, presented "Possible Immunosuppressive Activity of *Eimeria bovis* and Immunomodulatory Role of Decoquinate" at the Bovine Coccidiosis Conference in Banff, Alberta, Canada.

*Publications:*

R.M. Corwin, "Puppies should not have parasites — at least not for long." *Vet Tech* 1993; 14:375-377.

S.E. Marley, R.M. Corwin, J.R. Gerrish, "Effects of grazing system and parasite control with ivermectin on nematode burdens and beef-production of stocker steers." *Agri-Practice* 1993; 14: 24-30.

**Dr. D. Mark Estes**, assistant professor, received a USDA/CSRS grant for \$200,000, "Immunoglobulin isotype regulation in the bovine: Role of T-cell derived cytokines." The grant runs from Oct. 1, 1993, to Sept. 30, 1996.

*Publications:*

D.M. Estes, P.S.D. Turaga, K.M. Sievers, J.M. Teale, "Characterization of an unusual cell type (DC4+CD3-) expanded by helminth infection and related to the parasite stress response 1." *J. Immunol.* 1993; 150:1846-1856.

**Dr. Theodore J. Green**, associate professor, received Research Board grant "Control of horn fly reproduction by host vaccination," \$18,000.

**Dr. Bimal K. Ray**, associate professor, received USDA Animal Health grant "Regulation of bovine IL6 gene expression," \$13,000.

**Dr. Robert F. Solarzano**, professor, reviewed the book: *Veterinary Virology, Second Edition* in *J. Am. Vet. Med. Assoc.* 1993; 203(1):95.

**Dr. James G. Thorne**, associate professor, consulted with and participated in seminar for Veterinarians with LIFE (Laborios Life) Quito, Ecuador, and was invited for inauguration of Ecuador's Veterinary Diagnostic Laboratory.

### Combined Microbiology publications:

**J.A. Robinson, G.K. Allen, E.M. Green, W.H. Fales, W.E. Loch, C.G. Wilkerson**, "A prospective study of septicemia in colostrum-deprived foals." *Equine Veterinary Journal* 1993; 25: 214-219.

### Pathology

**Dr. Alex J. Bermudez**, assistant professor.

*Publications:*

A.J. Bermudez, D.E. Swayne, M.W. Squires, M.J. Radin, "Effects of Vitamin A deficiency on the reproductive system of mature white leghorn hens." *Avian Diseases* 1993; 37:274-283.

**Dr. Reuel R. Hook, Jr.**, associate professor, received a USDA Animal Health (Formula Fund) grant to study "Role of virulence factors in *Tritrichomonas foetus* pathogenicity."

**Dr. Gary S. Johnson**, associate professor, received a USDA Animal Health (Formula Fund) grant to study "DNA lesion causing protoporphyria in Limousins and its detection by PCR." He received a Children's Miracle Telethon Research Proposal grant to study "Phenotypic Evaluation of an Undescribed Subtype of Type I von Willebrand Disease" with N. Hakami and W. Patterson

**Dr. LeRoy D. Olson**, professor, received continuation of a USDA Animal Health (Formula Fund) grant to study "Evaluation of live and killed *Salmonella schwarzengrund* vaccines for *S. cholerae suis* infections in swine."

*Publications:*

R.A. Moxley, L.D. Olson, A.P. Davis, "Experience with a planned exposure program for the control of enzootic transmissible gastroenteritis in swine" in *J. Am. Vet. Med. Assoc.* 1993; 202(11):1861-1864.

**Dr. Lela Riley**, assistant professor, received a NIH grant of \$91,544 to study "Molecular Basis of Tyzzer's Disease in Research Animals."

*Publications:*

N. Winjum and L.K. Riley, "In vitro proliferation of a canine granulocytic ehrlichia," in *Vet. Microbiology* 1993; 34:355-362.

**Dr. Joseph E. Wagner**, professor and chairman, received NIH grants for \$1,580,982 to study several projects including Project #1: Rodent Orphan Parvoviruses: Molecular Characterization and Development of Diagnostic Reagents, with David Pintel and Lela K. Riley; Project #5: Viral Gene Amplification Assays for Detection of Murine Viruses in Biological Samples and Project, with Cynthia Besch-Williford and David Pintel; #6:



Pathogenesis of Cilia-Associated Respiratory Bacillus Infection in Research Animals, with Craig L. Franklin, Lela K. Riley and Reuel R. Hook. He received CORE grant of \$30,988 for the Comparative Medicine Research Center with Cynthia Besch-Williford, Craig Franklin and Earl K. Steffen.

He was invited speaker to the Australian Society of Laboratory Animal Science, Melbourne University, Monash University and the Veterinary School at Werribee, Australia, and presented the following: at ASLAS Conference in Adelaide - Quality Assurance Testing of Laboratory (Mice and Rats) Rodents in the 1990s; at Melbourne University Veterinary School - A Career as a Veterinarian in Laboratory Animal Medicine, and A Potpourri of Interesting Cases of Rabbits and Rodents; at Monash University - Quality Assurance Testing in Laboratory Animals: Why, How and How Much? and The Excitement, Challenges and Opportunities of a Career in Laboratory Animal Science.

### **Combined Departments publications:**

#### **Medicine and Surgery/Biomedical Sciences/Pathology**

**F.A. Mann, S.L. Stockham, M.B. Freeman, C. Wagner-Mann, C.L. Besch-Williford and R.F. Nachreiner**, "Reference intervals for insulin concentrations and insulin: glucose ratios in the serum of ferrets." *J. Sm. Exotic Anim. Med.* 1992; 2(2):79-83.

**Mark C. Rochat, John T. Payne, Eric R. Pope, Colette C. Wagner-Mann and Lanny W. Pace**, "Evaluation of skin viability in dogs, using transcutaneous carbon dioxide and sensor current monitoring." *Am. J. Vet. Res.* 1993; 54(3):476-480.

#### **Pathology/Biomedical Sciences/Animal Science**

**T.S. Weibking, D.R. Ledoux, A.J. Bermudez, J.R. Turk and G.E. Rottinghaus**, "Effects of feeding *Fusarium moniliforme* culture material, containing known levels of Fumosin B1 on the young broiler chick." *Poultry Science* 1993; 72:456-466.

#### **Medicine and Surgery/Animal Science**

**W.G. Zollers, Jr., H.A. Gaverick, M.F. Smith, R.J. Moffatt, B.E. Salfen and R.S. Youngquist**, "Concentrations of progesterone and oxytocin receptors in endometrium of postpartum cows expected to have a short or normal oestrous cycle." *Journal of Reproduction and Fertility* 1993; 97:329-337.

## **College Sets Hip Replacement Record**

Twelve hip replacement surgical procedures performed in a single two-month block has set a new record for these surgeries at the college, according to Dr. John T. Payne, assistant professor in Medicine and Surgery. He and Dr. James Tomlinson perform the procedure on dogs at the Clydesdale teaching hospital.

The new record is nearly double the previous record of seven. The first hip replacement surgery at the college was performed in December 1982. Since then, more than 80 procedures have been done at the college.



### Medicine and Surgery/Microbiology

**M.C. Rochat, F.A. Mann and J.N. Berg.** "Evaluation of a one-step surgical preparation technique in dogs." *J. Am. Vet. Med. Assoc.* 1993; 203(3):392-395.

### Medicine and Surgery/ Microbiology/Animal Science

**J.A. Robinson, G.K. Allen, E.M. Green, H.E. Garner, W.E. Loch and D.M. Walsh.** "Serum interleukin-6 concentrations in endotoxin-infused neonatal foals." *Am. J. Vet. Res.* 1993; 54(9):1411-1414.

**G.K. Allen, E.M. Green, J.A. Robinson, H.E. Garner, W.E. Loch and D.M. Walsh.** "Serum tumor necrosis factor alpha concentrations and clinical abnormalities in colostrum-fed and colostrum-deprived neonatal foals given endotoxin." *Am. J. Vet. Res.* 1993; 54(9):1404-1410.

### Medicine and Surgery/Pathology

**S.E. Turnquist, L.W. Pace, K. Keegan, L. Andrews-Jones, J.M. Kreeger, K.L. Bailey, P.L. Stogsdill and H.A. Wilson.** "Botryoid rhabdomyosarcoma of the urinary bladder in a filly." *J. Vet. Diagn. Invest.* 1993; 5:451-453.

### Medicine and Surgery/Animal Science

**F.A. Mann, J.T. Hathcock, C. Wagner-Mann.** "Estimation of soft tissue interposition after femoral head and neck excision in dogs using ventrodorsal pelvic radiography." *Veterinary Radiology & Ultrasound* 1993; 34(4):230-234.

### Medicine and Surgery/Biomedical Sciences

**J.T. Payne and G.M. Constantinescu.** "Stifle joint anatomy and surgical approaches in the dog." *Vet. Clin. North Am. (Sm. An. Pract.)* 1993; 23:691-701.

**G.M. Constantinescu, G. M. Amann, J. F. Anderson, E.R. Pope, B.L. Frappier and R.C. McClure.** "Fur Topographie und Chirurgie der Regio perinealis der Katze." *Wien. Tierarztl. Mschr.* 1993; 80(7):208-211.

### Pathology/Medicine and Surgery/ Animal Science

**S.W. Casteel, J.R. Turk, R.P. Cowart and G.E. Rottinghaus.** "Chronic toxicity of fumonisin in weanling pigs." *J. Vet. Diagn. Invest.* 1993; 5:413-417.

### Pathology/Microbiology

**S. W. Casteel, F.T. Satalowich and J.D Kendall et al.** "Aldrin intoxication and clearance of associated dieldrin residues in a group of feedlot cattle" in *J. Am. Vet. Med. Assoc.* 1993; 202:83-85.

### Biomedical/Biological Science

**D.J. Nonneman, V.K. Ganjam, W.V. Welshons and F. S. vom Saal.** "Intrauterine Position Effects on Steroid Metabolism and Steroid Receptors of Reproductive Organs in Male Mice." *Biol. Reprod.* 1993; 47(5):723-729.

### Medicine and Surgery/ Microbiology/Biomedical

**G.F. Bouchard, H. Plata-Madrid, R.S. Youngquist, G.M. Buening, V.K. Ganjam, G.F. Krause, G.K. Allen and A.L. Payne.** "Absorption of an Alternate Source of Immunoglobulin in Pups." *J. Am. Vet. Med. Assoc.*

### Medicine and Surgery/Biomedical Sciences/Agriculture

**G.F. Bouchard, G.S. Gross, V.K. Ganjam, R.S. Youngquist, P.W. Concannon, G.F. Krause and C.S. Reddy.** "Oestrus Induction in the Bitch with the Synthetic Oestrogen Diethylstilboestrol." *J. Reprod. Fertility (Suppl.)* 1993; 47:515-516.

**G.F. Bouchard, N. Malugani, R.S. Youngquist, G.F. Krause, P.W. Concannon, V.K. Ganjam, H. Plata-Madrid, M.A. Tammasia and C.S. Reddy.** "Determination of Ovulation in the Bitch with a Qualitative Progesterone Enzymimmunoassay in Serum, Plasma and Whole Blood." *J. Reprod Fertility (Suppl.)* 1993; 47:517-518.

### Biomedical/Medicine

**S. Slight, V.K. Ganjam, D.J. Nonneman and K.T. Weber.** "Glucocorticoid metabolism in the cardiac interstitium: 11 $\beta$ -hydroxysteroid dehydrogenase activity in cardiac fibroblasts." *J. Lab. Clin. Medicine* 1993; 122(2): 180-187

### Grants:

#### Microbiology/Pathology

**C.W. Maddox, C. Besch-Williford and W.H. Fales.** Identification and characterization of *Salmonella cholerae-suis* surface proteins as potential immunogens. National Pork Producers, \$13,440, and Missouri Pork Producers, \$4,668, renewal of 1992 proposals.

#### Biomedical Sciences/Microbiology

**C. Reddy, J Amann, M. Estes and B. Ray.** Common mechanisms of chemically induced cleft palate in mice. UMC Research Board Grant, \$22,435 for 12 months.



### The Fifties

**Udell J. Simmers, DVM '54**, announces the birth of a grandson, Austin Paul Gibson, born March 6, 1993.

### The Sixties

**Harold N. Engel, Jr., DVM '69**, received the 1993 North American Outstanding Teaching Award at the annual meeting of the Association of American Veterinary Medical Colleges. The award goes to the college of veterinary medicine faculty member in the U.S. and Canada who best exemplifies excellence in veterinary education. The winner is selected from winners of the Carl J. Norden Distinguished Teaching Award — which Dr. Engel has won three times. Both awards are sponsored by Smith Kline Beecham Animal Health.

### The Seventies

**William A. Johnson, DVM '77**, completed in September 1993, the Executive Veterinary Program (EVP) Certificate Series in Swine Health Management sponsored by the University of Illinois College of Veterinary Medicine at Urbana. EVP is a series of comprehensive, interdisciplinary certificate programs designed to strengthen the business, management and medical skills of veterinarians. The series extends over two years and consists of 12 three-day modules. Dr. Johnson has practiced for 16 years at the Griggsville-Mount Sterling Clinic in Griggsville, Ill.

### The Eighties

**Mark T. Higgins, DVM '81**, was installed as president of the Oklahoma Veterinary Medical Association for 1993. He is the youngest president in the association's 59-year history. His small-animal practice is in Tulsa, Okla.



**James K. Schuessler, DVM '82**, passed board examinations to become diplomate of the American College of Veterinary Practitioners in Companion Animal Medicine in 1993.

He works at Kirkwood Animal Hospital in Kirkwood, Mo.

**Kent Arnold, DVM '83**, announces the birth of his first child, Katherine Elizabeth, on June 28, 1993.

**Roxanne I. Knibb, DVM '85**, announces the birth of her fourth child, Nathan Matthew, on August 16, 1993.

**Donna J. Clemons, DVM '89**, passed board examinations to become diplomate of the American College of Laboratory Animal Medicine in 1993. She has been employed since 1992 by Hazleton Wisconsin in Madison, Wis.

**Stephen Patterson, DVM '89**, completed in September 1993, the Executive Veterinary Program (EVP) Certificate Series in Swine Health Management sponsored by the University of Illinois College of Veterinary Medicine at Urbana. EVP is a series of comprehensive, interdisciplinary certificate programs designed to strengthen the business, management and medical skills of veterinarians. The series extends over two years and consists of 12 three-day modules. Dr. Patterson has practiced for 3 years at Northeast Veterinary Service, Inc., in Shelbyville, Mo.

### The Nineties

**Mark D. Huff, DVM '91**, announces the birth of a son, Devin Christian, on Feb. 13, 1993.

**Susan M. Szczepanski de Plata, DVM '91**, moved to Missouri in March 1993, and is working with Horton Animal Hospitals.

**John S. Witte, DVM '92**, announces his engagement to **Jennifer L. Pearl, DVM '92**, with a wedding scheduled for October 1994.

## CLASS REUNIONS IN 1993

*(Alumni who signed up to attend the festivities)*

### Class of '53

William Bryson, Fredericktown, Mo.  
 James Gannaway, Maryland  
 Theodore Higgins, Grandview  
 Kyle Kent, Green City, Mo.  
 Kenneth Knoernschild, Quincy, Ill.  
 Walter Love, Springfield, Mo.  
 Alex Matteson, La Plata, Mo.  
 Joseph Minnick, Blue Grass, Iowa  
 H.H. Robertson, Higginsville, Mo.  
 Leo Rohlfing, Hermann, Mo.  
 Johnny Thurmon, Eolia, Mo.

### Class of '58

Kenneth Buchmann, Washington, Mo.  
 Charles Martin, Columbia, Mo.  
 Charles Middleton, Wading River, N.Y.  
 Eugene Plegge, Linn, Mo.

### Class of '63

John Eckert, St. Louis, Mo.  
 Max Gilmore, Springfield, Mo.  
 Allen Hall, South Haven, Minn.  
 Kenneth Hatten, Drexel, Mo.  
 Richard LeFevers, Mountain Home, Ark.  
 Merrill Townley, Chamois, Mo.  
 Vernon Viebrock, Billings, Mo.

### Class of '68

Jerry Carey, Blue Springs, Mo.  
 Norman Garton, Nevada, Mo.  
 Larry Gillig, Raytown, Mo.  
 Melvin Gerstner, South Pasadena, Calif.

### Class of '73

Danny Burns, Maryville, Mo.  
 Ronald Cott, Grandview, Mo.  
 Joan Flynn, Carthage, Mo.  
 George Keller, Columbia, Mo.  
 Harlan Sprouse, Brookfield, Mo.

*Continued on next page*



## Class Reunions

(continued from previous page)

### Class of '78

Richard Jefferson, Murphysboro, Ill.  
Paul Knoerschild, Marshall, Mo.  
Pete Rucker, Excelsior Springs, Mo.  
Gary Vrogendewey, Columbia, Mo.  
Mac Wilt, Paris, Mo.

### Class of '83

Paula Alshouse, Deland, Fla.  
Kent Arnold, Joplin, Mo.  
John Bates, Imperial, Mo.  
Stan Bladek, Newton, N.J.  
John Bloszies, Seale, Ak.  
Nan Clark, Fenton, Mo.  
John Clifford, Pickerington, Ohio  
Delores Craig, Las Cruces, N.M.  
Tom Del Pico, Smithville, Mo.  
Barbara Eichler, Florissant, Mo.  
Jane Francka, Springfield, Mo.  
Eric Goff, Cambridge, Ill.  
David Graeff, Cedar Rapids, Iowa  
Mary Hamilton, Shawnee, Kan.  
Kathy Hogan, Ellisville, Mo.  
James Howard, Jefferson City, Mo.  
Craig Humphreys, Lancaster, Wis.  
Richard Linn, Ozark, Mo.  
Susan McCarty, Fulton, Mo.  
Mike Muhlbauer, Fenton, Mo.  
Jacque Murphy, Pendleton, Ind.  
Kevin Reed, Jonesboro, Ark.  
Sherri Rigby, Columbia, Mo.  
Bruce Robertson, Fulton, Mo.  
James Ryterski, St. Louis, Mo.  
Stephen Sanders, Chesterfield, Mo.  
Bev Sherman, Springfield, Mo.  
George Stoecklin, Las Vegas, Nev.  
Kirk Stringer, Republic, Mo.  
Jodi Vandiver, Willowbrook, Ill.  
Mark VanHorn, Ballwin, Mo.

### Class of '88

Bobbie Bell, Chesterfield, Mo.  
Jeanne Best, Kenmore, N.Y.  
Sandy Kibalo, Lee's Summit, Mo.  
Kelly Lager, Nevada, Iowa  
Gary Nie, St. Paul, Minn.  
Thomas Rose, Columbia, Mo.  
John Vahle, Ames, Iowa  
David Volz, Pueblo, Colo.

# Alumni Class Representatives

#### 1950:

Dr. James K. Farrell  
R.R. 4, Box 130  
Boonville MO 65233

#### 1951:

Dr. Fred F. Krusekopf  
Box 12  
Jasper MO 64755

#### 1952:

Dr. Joe Zacker  
5308 West 81st Street  
Prairie Village KS 66208

#### 1953:

Dr. Hersel H. Robertson  
1100 Main, Box 628  
Higginsville MO 64037

#### 1954:

Dr. Charles W. Monsees  
1146 Bittersweet Road  
Lake Ozark MO 65049

#### 1955:

Dr. Kenneth H. Niemeyer  
200 Parkade Boulevard  
Columbia MO 65201

#### 1956:

Dr. Robert "Bud" Hertzog  
Route 3  
Lee's Summit MO 64063

#### 1957:

Dr. Jack R. Horton  
Horton Animal Hospital  
1700 I-70 Drive S.W.  
Columbia MO 65203

#### 1958:

Dr. Kenneth H. Buchmann  
4905 East State Street, Route 100  
Washington MO 63090

#### 1959:

Dr. John Perry  
Route 3, Box 313 E  
Brookfield MO 64628

#### 1960:

Dr. John F. Weggeman  
2635 S.E. Waters Edge Lane  
Topeka KS 66605

#### 1961:

Dr. James Thorne  
Route 4, Box 3310  
Cheavens Road  
Columbia MO 65201

#### 1962:

Dr. Bonnard Moseley  
410 West Boulevard South  
Columbia MO 65203

#### 1963:

Dr. Robert L. Tharp  
P.O. Box 87  
Maysville MO 64469

#### 1964:

Dr. Chris H. Rolf  
Maple Tree Veterinary Clinic  
15854 Clayton Road  
Ellisville MO 63011

#### 1965:

Dr. Richard P. Schmidtke  
Mexico Animal Hospital, Inc.  
1001 West Monroe  
Mexico MO 65265



**1966:**

Dr. Clark A. Gwin  
Chillicothe Animal Hospital  
1011 South Washington Street  
Chillicothe MO 64601

**1967:**

Dr. John E. Reinhold  
Lake of the Ozarks Animal Hospital  
Box 186  
Linn Creek MO 65052

**1968:**

Dr. Norman Garton  
R.R. 4, Box 153  
Nevada MO 64772

**1969:**

Dr. Floyd L. Prater  
Route 1  
Morrisville MO 65710

**1970:**

Dr. Raymond C. Ebert II  
Pleasant Hill Animal Clinic, Inc.  
601 North Highway 7  
Pleasant Hill MO 64080

**1971:**

Dr. Ely E. Phillips  
2547 South Linden Avenue  
Springfield MO 65804

**1972:**

Dr. John W. Hunt  
Warrensburg Veterinary Hospital  
Box 82  
Warrensburg MO 64095

**1973:**

Dr. Ronald K. Cott  
13300 Crystal  
Grandview MO 64030

**1974:**

Dr. Richard Kent  
Kent Veterinary Clinic  
P.O. Box 158  
Green City MO 63545

**1975:**

Dr. William D. Hope  
1605 Cunningham Road  
Columbia MO 65203

**1976:**

None

**1977:**

Dr. Charles "Tony" A. Martin  
Route 5, 7350 Elizabeth  
Columbia MO 65202

**1978:**

Dr. T. Everett Mobley  
306 West Washington  
Kennett MO 63857

**1979:**

Dr. John R. Wilcox  
210 East Third Street, No. 3  
Cameron MO 64429

**1980:**

Dr. Gerard J. Koenig  
4750 West Douglas Avenue, No.  
102  
Visalia CA 93291

**1981:**

Dr. Betty L. Higgins  
7812 South 67th East Avenue  
Tulsa OK 74133

**1982:**

Dr. Michael B. Pfander  
1750 South Campbell  
Springfield MO 65807

**1983:**

Dr. Mary Meyer Simeroth  
1038 Pasture Ridge Drive  
St. Charles MO 63304

**1984:**

Dr. Caroline Truss  
10420 Niblic  
St. Louis MO 63114

**1985:**

Dr. Lindall Perry  
1515 Scott Boulevard  
Columbia MO 65203

**1986:**

Dr. Robin Smith  
Buttonwood Animal Hospital  
3505 Buttonwood Drive  
Columbia MO 65201

**1987:**

Dr. Imogene Hemeyer  
Route 1, Box 104  
Monroe City MO 63456

**1988:**

Dr. Kelly Lager  
R.R. 1, Box 122  
Nevada IA 50201

**1989:**

Dr. Kimberly Ehlers  
HCR 73, Box 25  
Mountain Grove MO 65711

**1990:**

Dr. Mike Buss  
5335 Touhy Avenue  
Skokie IL 60077-3347

**1991:**

Dr. Denise Roche  
Deerfield Veterinary Hospital  
2850 South Ingram Mill Road  
Springfield MO 65804

**1992:**

Dr. Brent Herrin  
HCR 3, 3639-1  
Shell Knob MO 65747

**1993:**

Dr. Amy Rucker  
P.O. Box 91  
Harrisburg SD 57032-0091



## Howard selected president of college's alumni association

Alumni associations can provide a link between a college and its graduates. Active communication with alumni can serve the college by having an informed alumni body who can let the general public know about the college's condition.

Improving this communication is one of the goals of the College of Veterinary Medicine's Alumni Association President Jim

Howard owns a small-animal clinic in Jefferson City, his home town. In addition to his activities with the alumni association, Howard is active with the both the American and Missouri veterinary medical associations, and he is secretary/treasurer of the East-Central MVMA chapter. His wife, Bobbie, is president of the MVMA Auxiliary. They have two children Jennifer, 6, and Bradley, 2. The family keeps a dog, a cat and a lizard.

Howard is a licensed amateur radio operator and holds a U.S. patent for a goose-neck trailer hitch. He and two brothers own and operate a 180-acre cow and calf farm near Jefferson City.

His long-standing roots in central Missouri are reflected in his understanding of the way the alumni association can help the college. Individual graduates talking face-to-face with their colleagues, clients and others about the college will spread the word in a subtle way about the college's role in the health-care system.

"As veterinarians in the field, we know the college is strong but we need to disperse that information, just as we disperse information about diseases" he said. "Ultimately that attitude and information will trickle around and let people know we have a good program (at the college) and it should be supported."

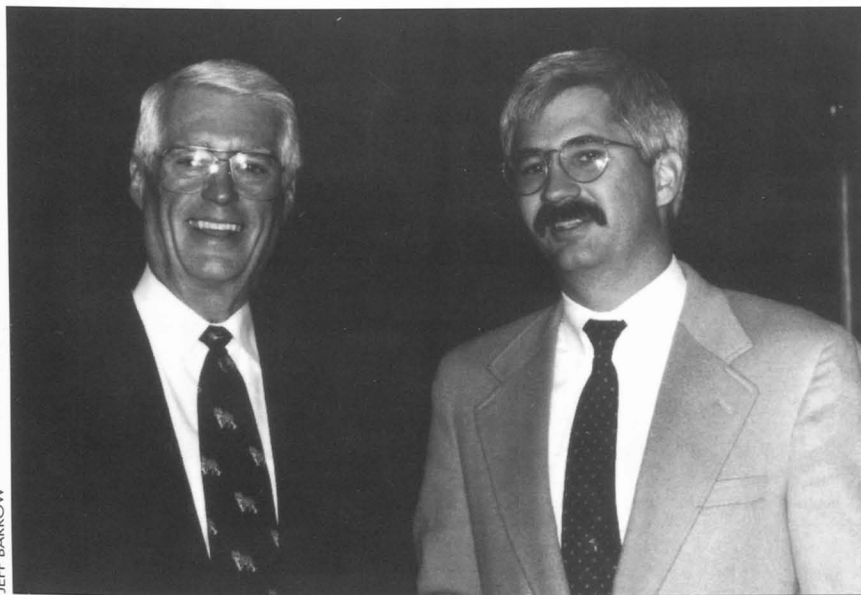
## Increasing members is goal of MU alumni president

The College of Veterinary Medicine boasts the highest percentage of graduates who are active, dues-paying members of the MU Alumni Association. The college's 27 percent membership figure includes the association's president, Gerald L. Johnson, DVM '56. His one-year term of office started in July.

"The main thing we're working on is membership," Johnson said of the association. "It's the lifeblood of the organization."

Johnson, who retired recently from Miles Laboratories, has jumped into his role as alumni president in a big way. Although he still lives in Kansas, he said he has been spending about three days a week this fall in Columbia working on alumni association business.

"This is probably the busiest time of the



JEFF BARROW

MU Alumni Association President Gerald L. Johnson, DVM '56, and College of Veterinary Medicine Alumni Association President Jim Howard, DVM '83, share a moment last fall at the annual alumni banquet.

Howard, DVM '83. Another related goal is to increase membership in the association.

"I want to foster better and closer ties with the College of Veterinary Medicine through publications and meetings," Howard said. "I want to improve communications and keep the alumni bond strong."

A specific approach to get alumni involved with the college is publishing materials for the membership. For example, an "information-gram" about issues and programs at the college would keep alumni informed. The association also could work with the college to print a low-cost alumni directory.

"We need alumni to talk up the university," Howard said. "By staying in touch with the college, (alumni) can be a link with clients, colleagues, neighbors, friends and anyone they come in contact with. They can let them know what's going on at the college."



year," he said. "(My wife) Judy and I have been enjoying it thoroughly."

Currently, the alumni board is seeking a new executive director and Johnson is chairman of the search committee. When that hiring task is accomplished, he hopes to concentrate on long-term goals.

For example, Johnson wants to increase student involvement with alumni activities. He would like students to serve on the association's standing committees.

"Once that (student) interest is sparked, we hope it will carry over after graduation," he said.

He is also attending alumni district meetings both to boost the university and to

learn the concerns of alumni.

"I've been meeting fabulous alumni," he said. "It's an humbling experience when you realize their accomplishments. They are everywhere I go, and they are proud of coming from MU."

Johnson is the first alumnus of the college to be president of the association, and only the third veterinarian in the United States to serve as president of an alumni association. Johnson has been involved in both professional and alumni organizations since he graduated.

"The alumni association is about pride of belonging to an organization," Johnson said. "We're selling pride in the university."

## Alumni Association

When you, as veterinarians, join the MU Alumni Association, you automatically become members of the Alumni Association of the College of Veterinary Medicine.

Membership entitles you, among other things, to a subscription to the *Missouri Alumnus* magazine, special library privileges at Ellis Library, special group rates on foreign and domestic tours, and the opportunity to receive 20 issues of the *Missouri Alumnus Tiger Sports Bulletin*.

In addition, your membership supports the National Merit Scholarship program, homecoming and class reunions, campus lighting, and the Faculty Awards, which recognize alumni and faculty of the University.

Most important, a certain percentage of your dues is returned to the College of Veterinary Medicine Alumni Association for use in our own alumni activities.

# Join

Show your support for Mizzou by joining the MU Alumni Association. As a member, you are eligible to join the new University Club.



### Yes, I want to belong

- |   |  |
|---|--|
| <input type="checkbox"/> Individual Annual, \$30      | <input type="checkbox"/> Individual MU Faculty & Staff, \$20   |
| <input type="checkbox"/> Mr. & Mrs. Annual, \$45      | <input type="checkbox"/> Mr. & Mrs. MU Faculty and Staff, \$30 |
| <input type="checkbox"/> Individual 65 or Older, \$20 | <input type="checkbox"/> Individual MU Student, \$20           |
| <input type="checkbox"/> Mr. & Mrs. 65 or Older, \$30 | <input type="checkbox"/> Mr. & Mrs. MU Student, \$30           |

Name \_\_\_\_\_ Home Phone (\_\_\_\_\_) \_\_\_\_\_

Mailing Address \_\_\_\_\_

City/State/ZIP \_\_\_\_\_

MU Student # \_\_\_\_\_ Class Year \_\_\_\_\_

Spouse attended MU? Spouse's name \_\_\_\_\_

Make check payable to: MU Alumni Association or charge  VISA  Mastercard

Credit Card # \_\_\_\_\_ Expiration \_\_\_\_\_

Signature required for credit card use \_\_\_\_\_

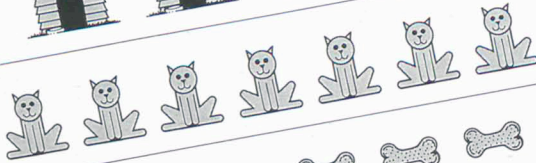
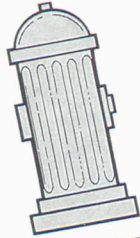
Send more information on joining the University Club.

Return the coupon along with your payment to MU Alumni Association,  
123 Donald W. Reynolds Alumni and Visitor Center, Columbia, Mo. 65211



# CANINE EYE CHART

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# FELINE EYE CHART

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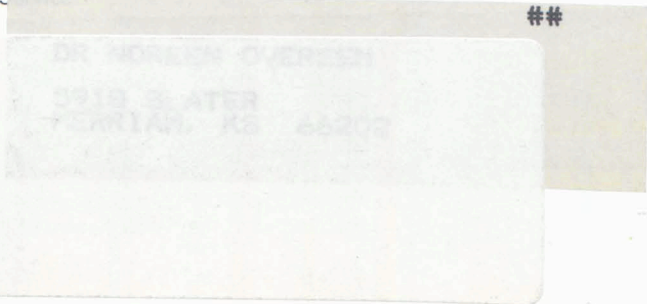


# Veterinary

medical review

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 College of Veterinary Medicine & Cooperative Extension Service  
 W203 Veterinary Medicine Building  
 College of Veterinary Medicine  
 Columbia, MO 65211

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# What's new with you?

Name \_\_\_\_\_

Address \_\_\_\_\_

Date of Birth \_\_\_\_\_ Degrees and dates \_\_\_\_\_

Day Phone \_\_\_\_\_ Evening Phone \_\_\_\_\_

Check those that apply:

- |                                  |                                   |                                      |                                    |
|----------------------------------|-----------------------------------|--------------------------------------|------------------------------------|
| <input type="checkbox"/> New job | <input type="checkbox"/> Award    | <input type="checkbox"/> Achievement | <input type="checkbox"/> Promotion |
| <input type="checkbox"/> Wedding | <input type="checkbox"/> Birth    | <input type="checkbox"/> Transfer    | <input type="checkbox"/> Book      |
| <input type="checkbox"/> Prizes  | <input type="checkbox"/> Honorary | <input type="checkbox"/> Retirement  | <input type="checkbox"/> Other     |

Details \_\_\_\_\_

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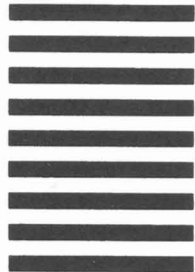
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# Telephone List

## QUICK REFERENCE:

Diagnostic Laboratory .....	882-6811
Equine Clinic .....	882-3513
Food Animal Clinic .....	882-6857
Small Animal Clinic .....	882-7821
Veterinary Medical Library ....	882-2461

*(Specialty/Special Interest listed under name)*

### Diagnostic Laboratory ..... 882-6811

- Dr. Keith Bailey, resident  
Pathology
- Dr. Alex J. Bermudez, assistant professor  
Avian diseases
- Dr. G. Daniel Boon, associate professor ... 882-7821  
Clinical pathology
- Dr. William Fales, professor  
Bacteriology
- Dr. Harvey Gosser, professor and director
- Dr. Roberto Guzman, resident  
Toxicology
- Dr. Gayle C. Johnson, assistant professor  
Pathology
- Dr. John M. Kreeger, assistant professor  
Pathology
- Dr. Margaret A. Miller, associate professor  
Pathology
- Dr. Lanny W. Pace, assistant professor  
Pathology
- Dr. Louis L. Pittman, resident  
Pathology
- Audrey Rottinghaus, instructor  
Virology, serology
- Dr. George E. Rottinghaus, associate professor  
Toxicology
- Dr. Don Schmidt, interim professor ... 882-7821  
Clinical pathology
- Dr. Steve L. Stockham, associate professor ... 882-7821  
Clinical pathology
- Dr. Susan Turnquist-Kreeger, resident  
Pathology
- Dr. James R. Turk, associate professor  
Pathology

### Equine Clinic ..... 882-3513

- Dr. Philip Johnson, assistant professor  
Equine medicine
- Dr. Kevin Keegan, assistant professor  
Equine surgery
- Dr. Nat T. Messer, associate professor  
Equine medicine
- Dr. David A. Wilson, assistant professor  
Equine surgery
- Dr. Cynthia Campbell-Beggs, third-year resident  
Equine medicine
- Dr. Rebecca Frankeny, first-year resident  
Equine surgery

### Food Animal Clinic ..... 882-6857

#### **Food Animal Medicine & Surgery:**

- Dr. Ross Cowart, associate professor  
Swine medicine, herd health
- Dr. Richard Marion, clinical assistant professor  
Bovine surgery
- Dr. Robert B. Miller, associate professor  
Infectious diseases, beef cow-calf, herd health
- Dr. Laurie Mills Wallace, associate professor  
Medicine





**Food Animal Clinic** ..... 882-6857

**Theriogenology:**

- Dr. William F. Braun, associate professor  
Small ruminant medicine
- Dr. V.K. Ganjam, professor  
Endocrinology
- Dr. Clif N. Murphy, clinical associate professor  
Bovine and equine embryo transfer,  
cryopreservation of embryos
- Dr. Dennis Schmitt, clinical assistant professor  
Theriogenology and embryo transfer
- Dr. Robert S. Youngquist, professor  
Theriogenology
- Dr. Don Peter, second-year resident  
Theriogenology
- Dr. Tim Evans, first-year resident  
Theriogenology

**Small Animal Clinic** ..... 882-7821

**Anesthesiology:**

- Dr. Keith R. Branson, assistant professor  
Anesthesiology
- Dr. Marjorie E. Gross, assistant professor  
Anesthesiology

**Neurology:**

- Dr. Joe N. Kornegay, professor and chairman  
Neurology
- Dr. Dennis O'Brien, associate professor  
Neurology
- Dr. Randall Longshore, first-year resident  
Neurology

**Ophthalmology:**

- Dr. Linda Collier, associate professor  
Ophthalmology
- Dr. B. Keith Collins, assistant professor  
Ophthalmology
- Dr. Cecil P. Moore, associate professor  
Ophthalmology
- Dr. Ruth Halenda, first-year resident  
Ophthalmology

**Radiology:**

- Dr. Everett Aronson, associate professor  
Radiology
- Dr. Louis A. Corwin, Jr., professor  
Radiation therapy, nuclear medicine
- Dr. Jimmy Lattimer, associate professor  
Radiation therapy, ultrasonography, nuclear  
medicine
- Dr. Ann Reed, second-year resident  
Radiology

**Small Animal Medicine:**

- Dr. Allen W. Hahn, professor  
Cardiology
- Dr. Brent D. Jones, associate professor  
Gastroenterology, respiratory medicine,  
endoscopy
- Dr. Dudley McCaw, associate professor  
Cardiology, oncology
- Dr. Amy Grooters, assistant professor  
General medicine and dermatology
- Dr. Elizabeth Settles, third-year resident  
Small animal medicine
- Dr. Mollyann Holland, second-year resident  
Small animal medicine
- Dr. Daniel Harrington, first-year resident  
Small animal medicine

**Small Animal Surgery:**

- Dr. Fred Anthony Mann, assistant professor  
Soft tissue/trauma
- Dr. John T. Payne, assistant professor  
Orthopedic
- Dr. Eric Pope, associate professor  
Soft tissue/reconstructive surgery
- Dr. James Tomlinson, associate professor  
Orthopedic
- Dr. Brian T. Huss, third-year resident  
Small animal surgery
- Dr. Bradford Dixon, second-year resident  
Small animal surgery
- Dr. Michell Waschak, first-year resident  
Small animal surgery

**Veterinary Medical Library** ..... 882-2461

Fax ..... 882-2950

C. Trenton Boyd, librarian



# Patient Referral Procedures

The Veterinary Teaching Hospital welcomes referral cases from practicing veterinarians. The Hospital can provide second opinions, expertise in performing difficult surgical or diagnostic procedures and specialized equipment that is not readily available. Referrals not only help practitioners solve problems, but they also provide valuable experience for professional students, interns, resident veterinarians and faculty.

Referring veterinarians should telephone a clinician to discuss a case and its probable arrival time; a preliminary estimate of potential costs should be discussed during this initial contact. An estimate is especially important if the client has questions about the expense of treatment and hospitalization. Under no circumstances should an estimated fee be quoted to a client without prior consultation with a clinician. In addition to their primary commitment to patient care, Teaching hospital clinicians have responsibilities for didactic and laboratory teaching, continuing education, research projects, and university service; thus, referring practitioners may not always be able to contact a clinician with whom they are acquainted.

A patient referral form (see next page) should accompany the patient and its owner. A map is provided on the back of the form to assist the client in finding Clydesdale Hall, the College's new Teaching Hospital located immediately south of the Diagnostic Laboratory on East Campus Drive. On the case history section of the form, the referring veterinarian should indicate the duration of the

present disorder, clinical signs, results of any laboratory tests, previous treatment, and pertinent nutritional management of the patient. A summary of the patient's medical record is often more helpful than a complete copy of the record which may be difficult to interpret by someone who is unfamiliar with the abbreviations and notations used by an individual practice. Suggestions and comments that may assist in the management of the case are always welcome.

The referral form becomes a part of the patient's medical record. Transfer of information by telephone is helpful but verbal material does not become part of the medical record.

Referring veterinarians are admonished to be cautious in suggesting that a specific diagnostic or therapeutic procedure will be performed. Sometimes clients may be confused or disappointed if Teaching Hospital clinicians determine that a different procedure or treatment is indicated.

Once a case has been accepted, complete responsibility for management of that case shifts from the referring veterinarian to the Teaching Hospital clinician. A postcard will be mailed within 24 hours of admission indicating the clinician in charge of the case. Daily care of referred cases may be rendered by interns or first- or second-year resident veterinarians as an indispensable part of their training program; however, a third-year resident or faculty clinician will be responsible for each referred case.

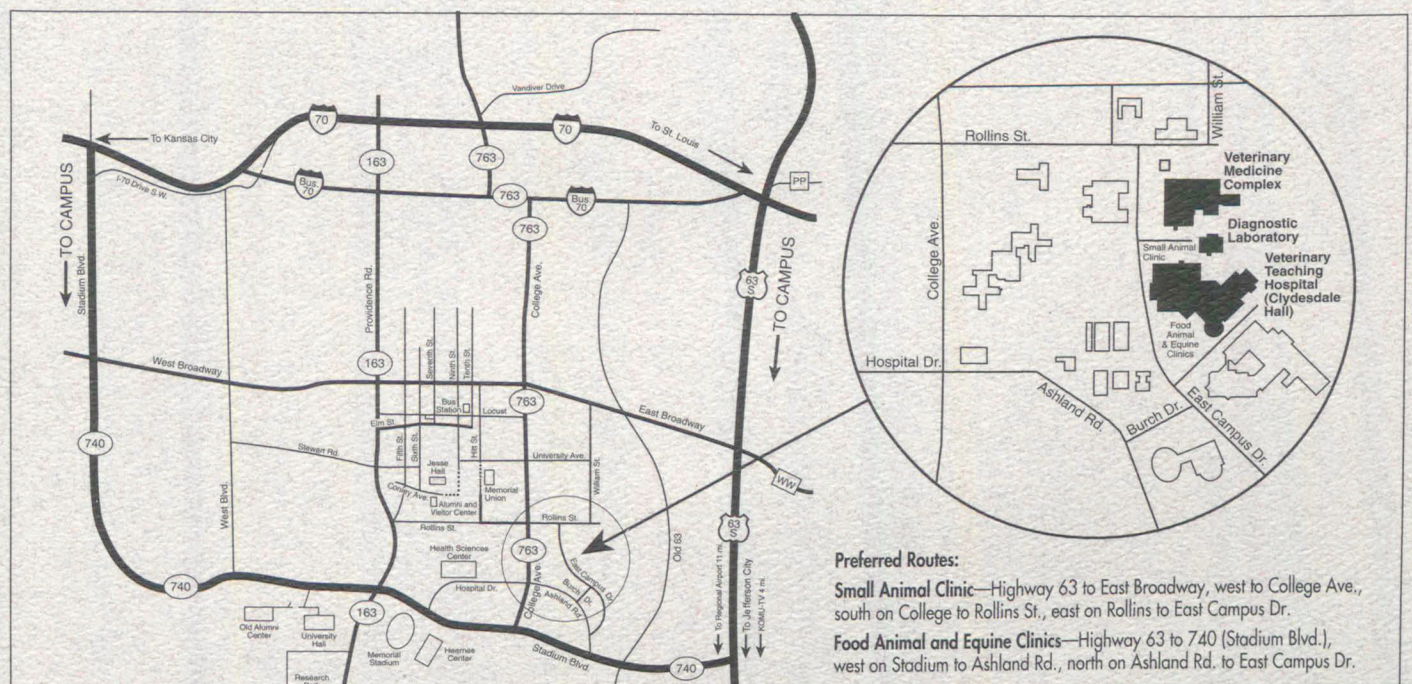
Depending upon the anticipated length of stay, the referring veterinarian may be tele-

phoned by the clinician during the patient's hospitalization. If the referring veterinarian wishes to ensure being called, please make a request on the Patient Referral Form. Clients are usually contacted daily by veterinary students. Within a working day of the patient's dismissal from the Small Animal Hospital, a copy of the discharge summary, prepared by the attending student and reviewed by the clinician, will be forwarded to the referring veterinarian. Every attempt will be made to forward a letter and two Patient Referral Forms for subsequent use within five working days. If the patient should die and subsequently be necropsied, response time may be extended pending completion of laboratory tests associated with the post mortem examination. Should problems or questions arise with any aspect of a case, the senior clinician or department chairman should be contacted.

The Veterinary Teaching Hospital exists to teach professional students, interns, and resident veterinarians, and to serve the animal-owning public and referring veterinarians. The faculty of the College and the Department of Veterinary Medicine and Surgery appreciate every opportunity to join with referring veterinarians in providing diagnostic, medical, and surgical care.

*R S Youngquist*

R. S. Youngquist D.V.M.  
Professor and Interim Chairman  
Veterinary Medicine and Surgery







### PATIENT REFERRAL

Date: \_\_\_\_\_ Appointment Time: \_\_\_\_\_ Equine  Small Animal Medicine   
Food Animal  Small Animal Surgery  Therio

This will introduce my Client: \_\_\_\_\_

and Patient: \_\_\_\_\_

Referred by Dr.: \_\_\_\_\_

*First name* *Last name*

*Street address*

*City* *State* *Zip* *Phone No.*

Case History: (including duration of illness, symptoms observed, lab results, radiographic results (include radiographs), surgical/medical treatment received, immunizations, diet, etc.)

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Suggestions and Comments by Referring Veterinarian:

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**PLEASE CALL ONE OF THE FOLLOWING NUMBERS FOR AN APPOINTMENT:**

- Equine Clinic ..... (314) 882-3513
- Food Animal/Theriogenology ..... (314) 882-6857
- Small Animal Medicine & Surgery ..... (314) 882-7821
- After Hours Emergency Number ..... (314) 882-4589

**THIS FORM IS TO BE PRESENTED BY THE CLIENT UPON ARRIVAL**



*Nomination form for*

# **Alumnus of the Year**

College of Veterinary Medicine - University of Missouri-Columbia

---

The Alumnus of the Year is selected and presented by the College of Veterinary Medicine Alumni Association in recognition of outstanding professional and personal achievements and contributions to the enhancement of the veterinary profession.

Please use this coupon to nominate a graduate who has made outstanding contributions both within the profession of veterinary medicine and beyond, through community, state or national activities.

*KEEP THIS OUTSTANDING TRADITION ALIVE. SEND YOUR NOMINATION TODAY.*

**My nominee is:**

Dr. \_\_\_\_\_

**Name of person who can supply information on this nomination:** \_\_\_\_\_

**Address of this person:** \_\_\_\_\_

**My name and address:** \_\_\_\_\_

**My telephone number:** \_\_\_\_\_

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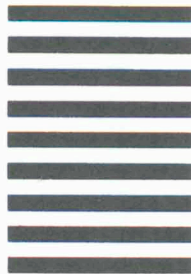
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