

FALL
1994

Veterinary

MEDICAL REVIEW



Kornegay takes charge

PLUS:

CT Scanner
Impact Award
Catching Up With...
Dr. Loren Kintner

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

Veterinary

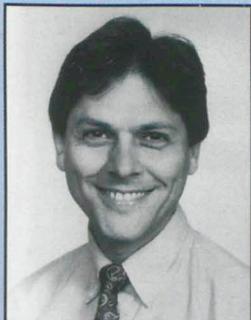
medical review

N.S. Volume 14
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Ophthalmologist accepts college's first endowed professorship



Dr. Mark P. Nasisse

Dr. Mark P. Nasisse has accepted the college's first endowed professorship. Nasisse, 41, received his doctorate in veterinary medicine from Kansas State University in 1978. After practicing veterinary medicine for two years in St. Augustine, Fla., he served a three-year residency in veterinary ophthalmology at the University of Tennessee. Nasisse has been serving since 1984, first as an assistant and later as an associate professor in veterinary ophthalmology at North Carolina State University. In addition to clinical and research work, Nasisse has excelled as an administrator and a mentor to residents in veterinary ophthalmology. The Ruth M. Kraeuchi Professorship was established this year as the college's first endowed professorship. It is the only endowed position in veterinary ophthalmology in North America.

ON THE COVER: The MU College of Veterinary Medicine mascot mules, Hilda and Louise are ready to leave the front of Clydesdale Hall after dropping off Missouri Lt. Gov. Roger B. Wilson during the college's open house. See related article on Page 12. (Photo by Howard Wilson).



It's always fun to prepare my comments for the Veterinary Medical Review when exciting things are happening at your College of Veterinary Medicine — especially when the excitement touches all components of the college's varied missions in teaching, clinical service and research.

Excellence in Teaching

The MU College of Veterinary Medicine has long been known for its dedicated teachers who take exceptional pride in training the veterinarians of tomorrow. Dedication and commitment to teaching are recognized in different ways, including awards for excellence in education, with recipients selected by the students themselves.

Some of our recent winners of teaching awards are highlighted in the box on page 11. They deserve hearty congratulations for these special accomplishments!

Because of the importance of teaching, the college is now in the process of developing faculty positions highly dedicated to teaching. I will keep you informed as plans progress.

Awards & Honors

Many outstanding college faculty and students received awards and honors during the past year. They are listed in a separate section titled "Achievement Round-Up." Additionally, we are listing scholarship winners and the many grants awarded to the college faculty.

As you can see from the many awards and honors, we all take pride in the exceptional accomplishments of our students and faculty.

Centers of Excellence

The different divisions of MU are in the process of developing "unique niches" or centers of excellence. Although training veterinary medical students and providing clinical and diagnostic services will remain the core of this college's comprehensive mission, we also will be focusing resources in selected fields of veterinary medicine and biomedical research.

These focus areas are where we aspire to become national and, indeed, international leaders, including the areas represented by our two newly endowed professorships — the Ruth M. Kraeuchi Missouri Professorship in Veterinary Ophthalmology and the Gilbreath-McLorn Missouri Professorship in Veterinary Cardiology.

These are not only the first endowed professorships in your college, they are — to our knowledge — the first endowed professorships in these areas in veterinary medicine. We are exceptionally proud of these professorships, as we hope you are, and we are dedicated to attracting the nation's best veterinary academicians to these positions.

Although the university still faces severe financial challenges ahead, the college faculty is resolute and anxious to continue a focused effort to

achieve national stature in our "centers of excellence." I will keep you informed as the faculty and college administration continue strategic planning for those areas selected for focused investment.

CT Scanner

We are proud to announce the acquisition of the new computerized tomography (CT) scanner — the first and only CT instrument in Missouri dedicated solely for use on animals.

The scanner was donated by General Electric Medical Systems. It's the same high-tech equipment used by many hospitals for CT scans of humans.

Our clinical staff now has better capability to diagnose and detect broken bones, cancer and other diseases in animals. We have already found it to be very useful in the small-animal clinic. With some adaptations and adjustments, it will also be available for use on large animals in the future.

This CT scanner also allows us to continue our dedicated mission of training our students to become excellent veterinarians, and enhances our capabilities to provide referral services to state and regional practitioners.

Budget Situation Improving!

Thanks to support from many of you, the budget reduction planned for your college will not take place.

MU Chancellor Charles Kiesler released a statement clarifying this process, and announced that a reduction in our general operating budget will not be necessary. Indeed, thanks to support from the chancellor's office, the college has received substantial increases in our budget over the past two years.

In addition, the Veterinary Medical Diagnostic Laboratory was granted a "MU-related" partial line-item budget by the legislature. This gives our staff fiscal stability to better serve animal owners, while keeping costs for services at a minimum.

When you consider our budget increases, the funding of the endowed professorships, and the MU-related line providing partial support for the Diagnostic Laboratory, it is apparent that your College of Veterinary Medicine is recognized and highly supported by MU!

We are truly beginning the journey to a new Era of Excellence, and with help from all of our friends, we are looking ahead to a bright and fantastic future for your college. We owe a great debt of gratitude to you for your continued support of college programs.

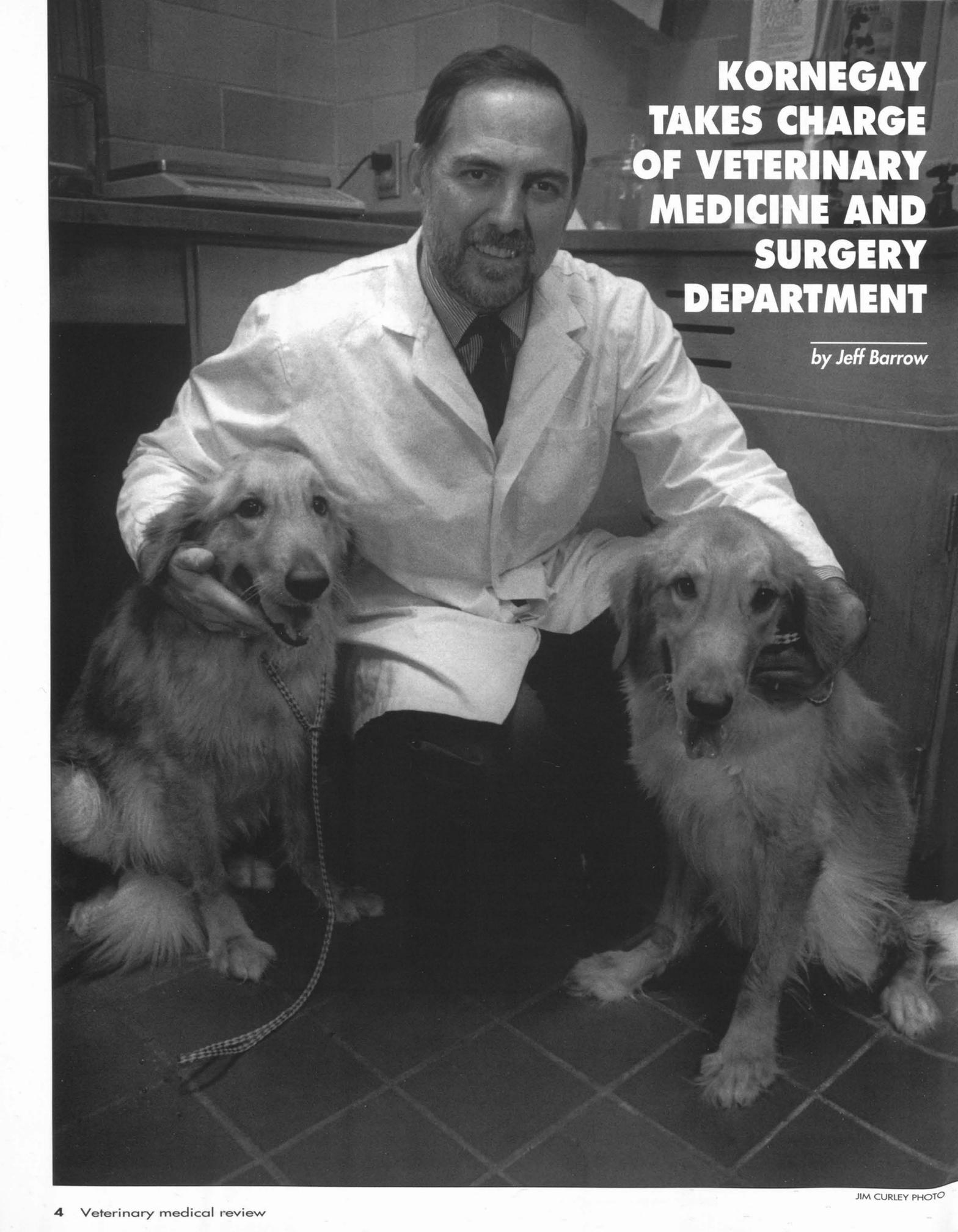
Best wishes,

H. Richard Adams
H. Richard Adams, DVM
Dean

Beginning the Journey to a New Era



Dr. H. Richard Adams



**KORNEGAY
TAKES CHARGE
OF VETERINARY
MEDICINE AND
SURGERY
DEPARTMENT**

by Jeff Barrow



When Dr. Joe N. Kornegay accepted a position at the college, Dean H. Richard Adams described him as “a major domino to fall.” People around the country were commenting on MU’s ability to attract someone of Kornegay’s stature.

“I share a similar philosophy with Dean Adams,” Kornegay said. “I want to bring people together to make a difference.”

As chairman of veterinary medicine and surgery, Kornegay will have plenty of opportunities to make a significant impact on the course of the college. He is working with faculty to define where to focus the department’s resources. By concentrating on certain areas, the department intends to develop nationally known areas of excellence.

“These are exciting times with a lot of momentum and enthusiasm,” Kornegay says.

Kornegay, who worked for 11 years at North Carolina State University, is familiar with achieving excellence. As a scientist,

he has earned a nationally renowned reputation for his research on a canine model of Duchenne muscular dystrophy. His colony of Golden Retrievers lack or have severely reduced levels of dystrophin, the defective protein in Duchenne muscular dystrophy. The colony — one of only four in the world used to study the disease and possible treatments — also display progressive clinical dysfunction similar to Duchenne muscular dystrophy in children.

Kornegay is continuing his research into the pathogenesis of muscular dystrophy, and hopes to help discover new therapies that may eventually be effective in people. He is collaborating with researchers in the college, the School of Medicine, and the Dalton Cardiovascular Research Center, where his laboratory is located.

“It’s important to me to continue my research,” Kornegay says. “I came here because I felt that I could continue my research, and there is an opportunity to collaborate with researchers at MU. I’m tre-

(*ABOVE*) Dr. Joe N. Kornegay and Dean H. Richard Adams discuss changes at the college while walking down a hallway of the Veterinary Medical Teaching Hospital in Clydesdale Hall.

(*LEFT*) Kornegay kneels down in his laboratory with two Golden Retrievers used in his research on muscular dystrophy. He is continuing his research while assuming the duties as chair of the Veterinary Medicine and Surgery Department.

KORNEGAY TAKES CHARGE

(continued from previous page)

mentously excited about collaboration.”

His research is only a part of his role at the college. He is responsible for coordinating six sections within the three broad areas of companion animal, food animal and equine medicine. He also is aware of the need to line up his department's efforts with the overall college and University program.

“We're focusing resources and identifying potential centers of excellence,” Kornegay says. “We're putting considerable emphasis on scholarly activities and professional development.”

He expects veterinary medicine and surgery to become a model of teamwork in which individuals differentiate to pursue their own areas of excellence. Then the whole will be greater than the sum of the parts.

“We shouldn't expect each individual faculty member to be excellent in every way,” Kornegay says. “But by section and department, we should be able to achieve an overall excellence.”

The college traditionally has achieved high ratings in teaching and in service. The challenge now, according to Kornegay, is to upgrade the research component while maintaining the teaching and service components.

“We need to make sure these three are kept in balance,” Kornegay says. “One way to do this is to pursue research that has teaching and service applications.”

Through a faculty initiative, the college is studying two tracks for faculty members to pursue. The first is the traditional tenure track, which will have expectations for basic research. The second is the clinical track, which will emphasize teaching and service but still maintain a scholarly component.

“We must expect any academician to contribute to the body of knowledge,” Kornegay says.

In order to prevent a split between clinical and tenure tracks, Kornegay emphasizes that both groups must be rewarded equally. Kornegay stresses the importance

FOCUS ON CHANGE

Dr. Joe N. Kornegay explains trends in the three areas of the Department of Veterinary Medicine and Surgery:

Food Animal

“Across the country many colleges of veterinary medicine are switching from individual animal health to herd health.

“Missouri is the number two state in the nation for cow-calf operations, and these are predominantly small herds.

“At the same time, there is an evolving situation of corporate swine operations with herds of up to 80,000 sows.”

Equine

“The MU College of Veterinary Medicine has a very service-oriented group in equine medicine. Our group has been very good at building confidence in the hospital, and we're building that reputation around the state.

“We run the risk of letting the research component go down ... and we're discussing how to increase the visibility of our research.”

Companion Animal

“Changes initiated by the faculty have resulted in dividing the area of small animal medicine into Community Practice and Referral Services. The credit primarily goes to Associate Professor Dudley McCaw.

“This division allows us to keep our teaching and basic services under Community Practice, but the Referral Service provides our specialists with the opportunity to increase their ability and experience.”

of making a clear distinction in responsibilities and expectations between the two tracks.

The department also is making a distinction between community practice — which emphasizes teaching and basic services — and referral service — which will allow specialists to concentrate in selected areas.

These changes will require a high level of communication.

"I want to create a convivial atmosphere for a feeling of openness and collaboration," Kornegay says. "When we have a free and open interchange of ideas, and make everyone clear on the rationale for decisions, we should be able to reach consensus."

Although teaching and service will continue to be a crucial component of any land-grant university, the bottom line is that the department, as well as the college and the University, will be operating more and more as a business. There will be a greater expectation of financial support from the public that uses the college's resources.

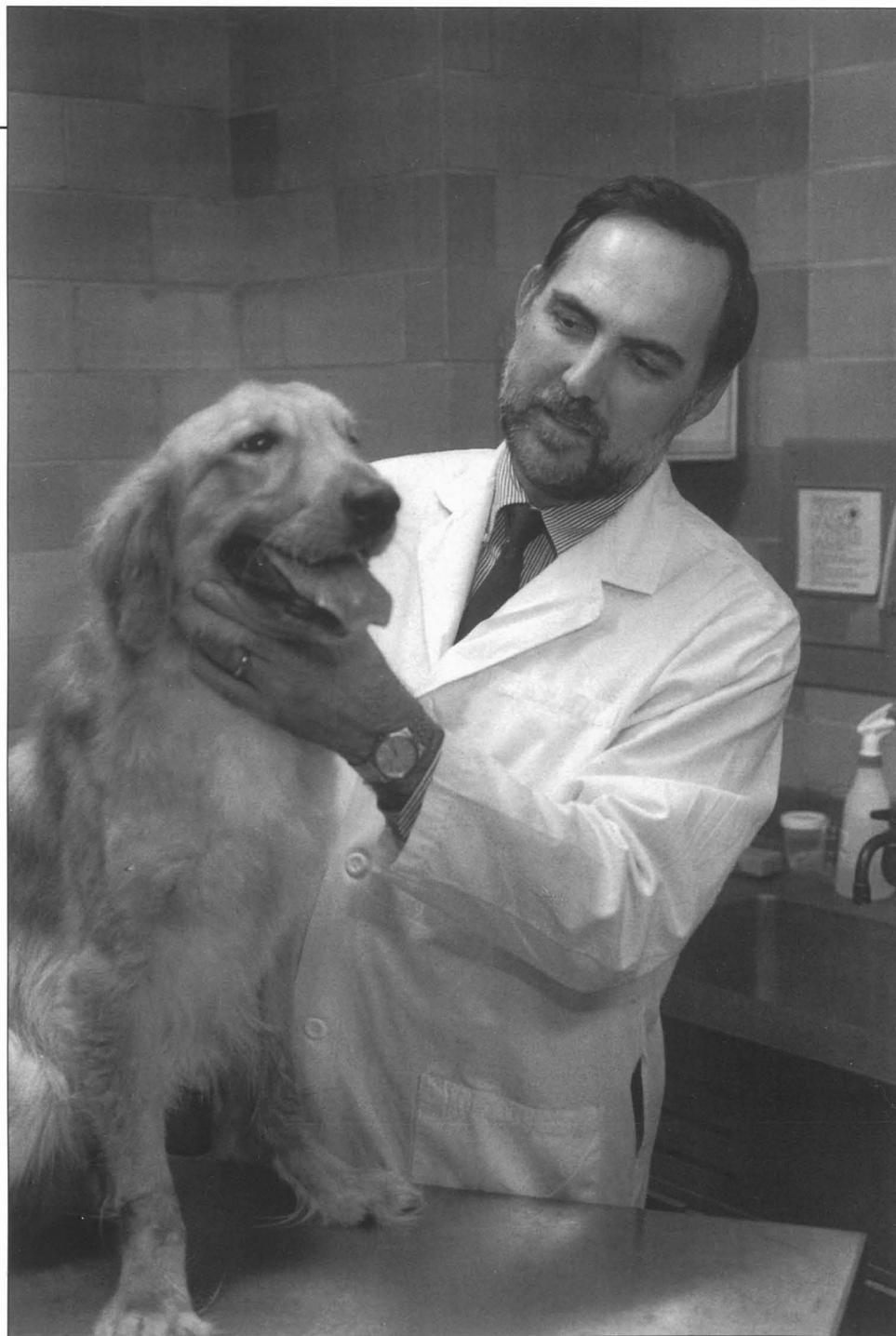
"The faculty members recognize the challenge and they're supportive of the need to increase research and scholarly pursuits," Kornegay says. "They are coming together rather than dividing, and I'm trying to facilitate that process."

The College is highly sensitive to its customers — each of the various constituency groups for food animal, equine and companion animal medicine.

"It's important to get input from commodity groups and working veterinarians," Kornegay says. "Each is important to the state."

Dean Adams has appointed a committee of practicing veterinarians who work with food animal species to serve as a mechanism for communicating their concerns to the college.

"This can be a model for getting input from constituents," Kornegay says.



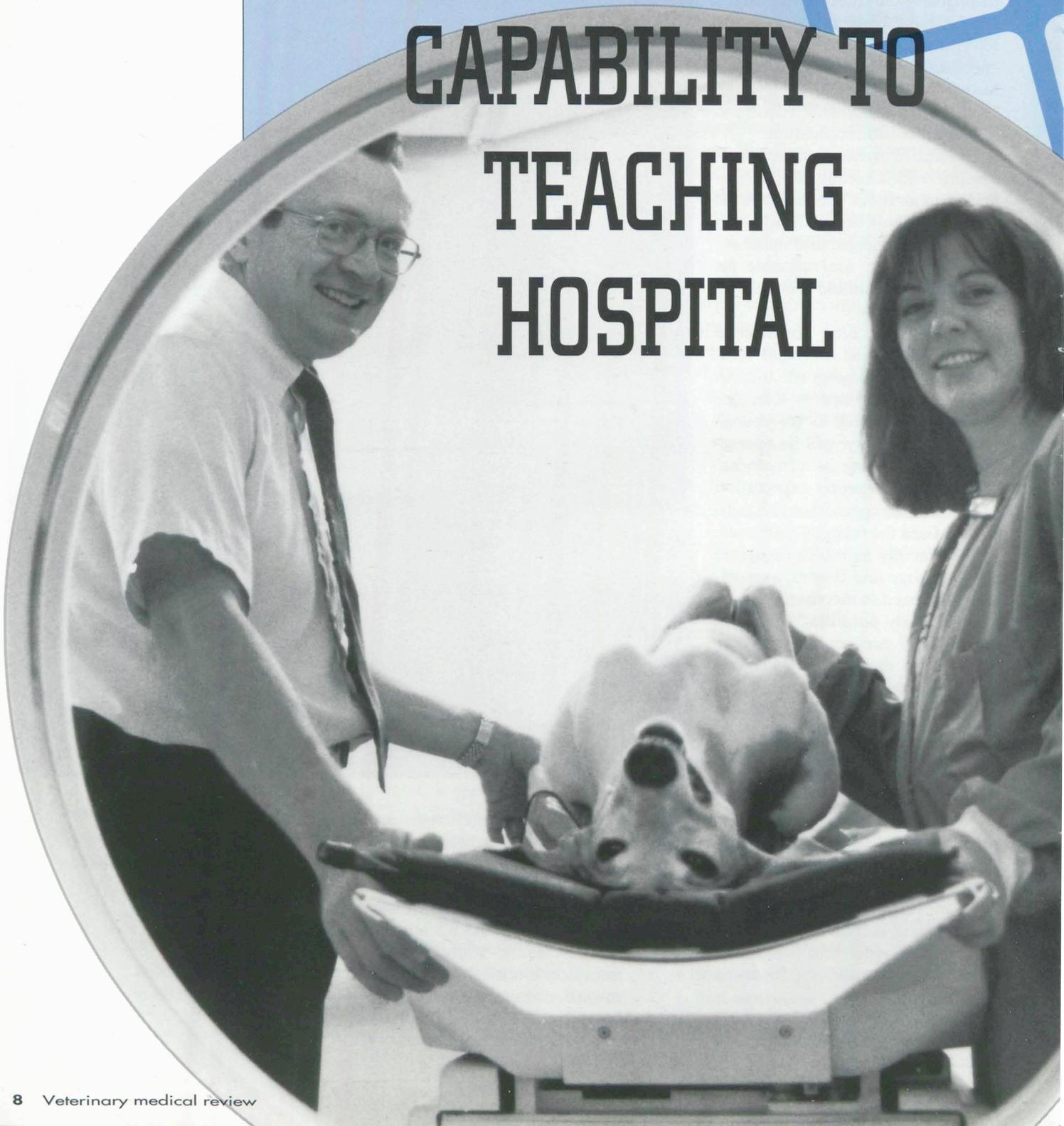
JIM CURLEY PHOTO

The number of changes occurring simultaneously at the college would be a challenge for any administrator. Kornegay is facing the future with confidence.

"There are a number of issues confronting the college and it's crucial to make the right decisions," Kornegay says. "The chairman is in a critical position. I want to work toward consensus (among faculty members), but I'm still willing and able to make unpopular decisions." ♦

Kornegay examines one of his Golden Retrievers.

CT SCANNER ADDS HIGH-TECH CAPABILITY TO TEACHING HOSPITAL

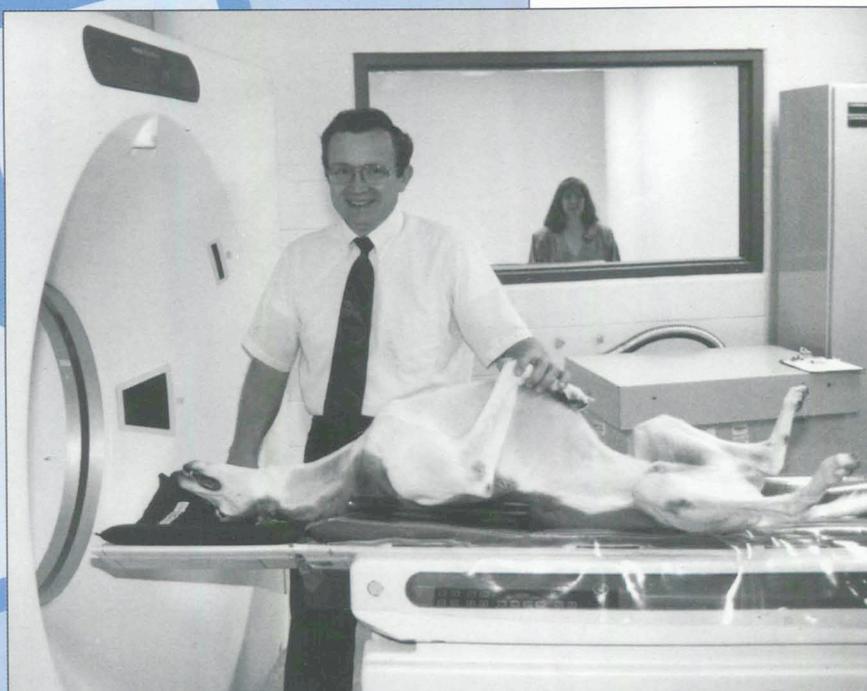


Since opening in 1993, the college's teaching hospital has acquired many pieces of high-tech equipment. This array of technology allows hospital staff to provide the best in animal care.

High-tech animal care will further be enhanced with the addition of the hospital's latest acquisition — a computerized tomography (CT) scanner. This is the first and only CT machine in Missouri solely dedicated for use on animals.

"We are committed to providing our students with high technology experience in a real-life animal care setting," says Dr. Jim Lattimer, associate professor of radiology. "The arrival of CT scanning capabilities continues to promote our dedication to high-quality training opportunities for future veterinarians."

The four-year-old scanner with a value of \$250,000 was donated by General Electric Medical Systems. It is the same type of machine used by many human hospitals. CT scanning uses X-rays to produce high-quality images of internal organs and other tissues. The scans are useful for diagnosis and evaluation of treatment options for a variety of diseases, including cancer.



Lattimer says the scanner also will offer a valuable service to Missouri pet owners whose animals may be referred to the teaching hospital for advanced medical diagnosis and treatment. Private practitioners throughout the state regularly refer animal patients to MU clinicians for advanced medical care of complicated or rare animal illnesses or injuries.

As Missouri's only training program for veterinary medical doctors, the college's teaching hospital serves as the center for teaching clinical medicine in the state. The building houses the veterinary medicine and surgery department, hospitalization and treatment facilities for more than 150 animal patients and numerous specialized diagnostic laboratories. Substantial space also is dedicated to student training laboratories and seminar rooms. ◆

J.C. Lattimer and Donna Dykal prepare a dog for a CT scan.

photos by Howard Wilson

FALL CONFERENCE: A 70-year tradition in

For 70 years, the college's annual Fall Conference has served Missouri veterinary medicine by providing a forum of continuing education and networking for active veterinarians.

Conference attendance has been declining over the years, possibly because of competition from the variety of conferences that occur now. Among others, there currently are conferences for the Missouri, Central States, Western States and North American veterinary medical associations. This creates a situation in which there is more supply than demand for continuing education seminars and workshops.

The college has been combining the annual Fall Conference and the Alumni Day with the idea that there would be a crossover in attendance. Alumni veterinarians could accomplish two goals with one trip to Columbia.

In 1994, the 15th annual Alumni Day was held in conjunction with the 70th Annual Fall Conference in an attempt to attract more participation in the conference. The college offered two-hour interactive workshops and the use of its teaching and research facilities.

The Fall Conference was condensed to accommodate the Alumni Day activities. There were small group interactive workshops on many topics under the broad categories of small-animal, food-animal and equine medicine.

These interactive workshops gave participants hands-on experience and individualized attention from teachers. Instead of the typical conference workshop, which may have 50 to 300 participants and a lecturer with a slide show, the interactive workshops had three to 12 participants who could engage in an active give-and-take with the instructor.

Some of the subjects included gastroenterology, thoracic radiology, management of red eye, evaluation of bulls for breeding



transition



soundness, equine reproduction and beginning ultrasonography. There was a generally positive response to the interactive workshops.

Participants in the conference took advantage of the college's new facilities and excellent faculty. Interactive workshops scheduled on Saturday morning were followed with a tour of Clydesdale Hall. Spouses attended a workshop about the college presented by Dean H. Richard Adams.

After lunch, participants could attend the football game. An alumni reception and reunion dinners took place Saturday evening at the Holiday Inn Executive Center in Columbia. ♦

The college is seeking ways to reinvigorate the annual fall conference. To that end, we are seeking suggestions to make the conference as convenient, relevant and useful as possible for practicing veterinarians and alumni.

The interactive workshops were well-received by those who participated. The Fall Conference could fill a unique niche by providing the type of interactive workshop and the individualized instruction that cannot be found at larger conferences.

Also, since many of the veterinarians interested in attending the workshops may not attend Alumni Day, there was discussion about separating the two events. Alternatively, the conference could be extended an extra day to allow participants to attend more workshops. This extension could attract more veterinarians who could justify a trip to Columbia if it included more continuing education.

If you have a comment, please contact the Office of Academic Affairs, W203 Veterinary Medicine Building, Columbia, Mo., 65211, or call (314) 882-3554 and ask for Dr. Everett "Finny" Aronson.



College of Veterinary Medicine Teaching Award Recipients

Golden Aesculapius Teaching Awards

- Dr. John Amann
- Dr. Steve Stockham
- Dr. Amy Grooters
- Dr. Richard Marion

Norden Distinguished Teacher Award

- Dr. Keith Collins

MSD AGVET Award for Teaching Creativity

- Dr. Keith Branson

1994 William T. Kemper Fellowship

- Dr. Steve Stockham

Nominees for SAVMA Teaching Awards

- Dr. Allan Allert
- Dr. Everett Aronson
- Dr. Brian Frappier

MISSOURI LT. GOV. WILSON RECEIVES IMPACT AWARD



Missouri Lt. Gov. Roger B. Wilson accepts a plaque and congratulations from Dean H. Richard Adams. (Right) Wilson makes a point during his address at the 1994 Veterinary Medicine Open House.

photos by Jeff Barrow



Missouri Lt. Gov. Roger B. Wilson received the 1994 Impact Award in recognition of his 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 each year 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 open house at Clydesdale Hall. Lt. Gov. Wilson

gave a keynote speech at the event.

"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.

"This award is a way to recognize his commitment to excellence in veterinary medicine for the people of Missouri," Adams said. "He has been a consistent and important supporter of the college for a long, long time."

Wilson, who earned a master's of education in 1986 from MU, received an engraved Hamilton watch and an individual plaque. In addition, a permanent plaque engraved with the names of award winners is on display at the college.

Last year, the first impact award was shared by Dr. Kenneth Niemeyer, DVM '55, and Dr. Joe Wagner, chairman of pathology. Nominees are selected by the dean after discussions with the college's executive committee, faculty policy committee and student officers. ◆

FACULTY DIRECTORY 1994-95

Administration



H.R. Adams
Dean



C.B. Chastain
Assoc. Dean of
Academic Affairs



G.M. Buening
Associate Dean for
Research



E. Aronson
Director of Student
and Alumni Affairs



Ben Riley
Assistant to the
Dean



David Horner, Jr.
Director of
Development

College of
Veterinary
Medicine
University of
Missouri,
Columbia,
Missouri

Continuing Education and Extension



D.K. Hardin
Director and Dairy
Extension



Rick Tubbs
Swine Extension



R. Randle
Ruminant Extension



C.T. Boyd
Librarian

Library

Department of Veterinary Medicine and Surgery



J.N. Kornegay
Chairman



K. Branson
Anesthesiology



W.F. Braun
Theriogenology



K. Collins
Ophthalmology



L. Corwin
Radiology



R. Cowart
Food Animal Medi-
cine and Surgery



Amy Grooters
Small Animal
Medicine



M. Gross
Anesthesiology



A. Hahn
Small Animal
Medicine



P. Johnson
Equine Medicine
and Surgery



B.D. Jones
Small Animal
Medicine



K. Keegan
Equine Surgery



J.C. Lattimer
Radiology



A. Mann
Small Animal
Surgery



D. L. McCaw
Small Animal
Medicine



N.T. Messer, IV
Director, Equine
Center



R.B. Miller
Food Animal Medi-
cine and Surgery



R.L. Mills-Wallace
Food Animal Medi-
cine and Surgery



C.P. Moore
Ophthalmology



C.N. Murphy
Theriogenology



D. O'Brien
Neurology



J.T. Payne
Small Animal
Surgery

Department of Veterinary Medicine
and Surgery
(continued on next page)

Department of Veterinary and Medical Surgery (Continued from previous page)



E.R. Pope
Small Animal
Surgery



J. Tomlinson
Small Animal
Surgery



D. Wilson
Equine Medicine
and Surgery



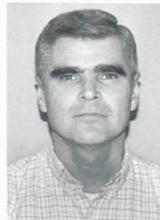
R.S. Youngquist
Theriogenology

Department of Veterinary Biomedical Sciences

Hospital
Business
Manager



R.L. Haffey



M.H. Laughlin
Chairman



J.A. Allert
Pharmacology



J.F. Amann
Anatomy



O.R. Brown
Microbiology



L. Clarke
Cell Biology



G.M. Constantinescu
Anatomy



B.L. Frappier
Histology



V.K. Ganjam
Physiology



C.G. Hale
Biochemistry



E.M. Hasser
Cardiovascular
Physiology



R.M. McClure
Anatomy



C.S. Reddy
Toxicology



L.J. Rubin
Cell Biology



J. Schatt
Cardiovascular
Physiology



W.V. Welshons
Reproductive
Endocrinology

Veterinary Microbiology



C.A. Carson
Chairman



G.K. Allen
Virology



J.N. Berg
Pathogenic
Bacteriology



R.M. Corwin
Parasitology



D.M. Estes
Immunology



T.J. Green
Immunoparasitology

Veterinary
Microbiology
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next page)

Veterinary Microbiology (Continued from previous page)



R.M. McLaughlin
Laboratory Animal
Medicine



B.K. Ray
Molecular Genetics



J.G. Thorne
Epidemiology and
Public Health

FACULTY DIRECTORY 1994-95

Veterinary Pathology



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Chairman



C. Besch-Williford
Laboratory Animal
Medicine



D. Boon
Clinical Pathology



R.E. Fish
Laboratory Animal
Medicine



C. Franklin
Laboratory Animal
Medicine



R.R. Hook, Jr.
Immunology



G.S. Johnson
Comparative
Hemostasis



L.D. Olson
Pathology



L. Riley
Molecular Biology



(NO
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AVAILABLE)

D.A. Schmidt
Clinical Pathology



S.L. Stockham
Clinical Pathology



L.P. Thornburg
Pathology



(NO
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L.A. Terril
Laboratory Animal
Medicine

Veterinary Medical Diagnostic Laboratory



H.S. Gosser
Chairman



A.J. Bermudez
Avian Pathology



S.W. Casteel
Toxicology



W.H. Fales
Bacteriology



G. Johnson
Neuro-Pathology



J.M. Kreeger
Pathology



M.A. Miller
Pathology



E. Ostlund
Virology-Serology



L.W. Pace
Pathology



A.A. Rottinghaus
Serology



G.E. Rottinghaus
Chemistry



E.K. Steffen
Lab Animal
Microbiology



J.R. Turk
Pathology

Laboratory
Business
Manager



P. King

Biomedical Sciences

Dr. L.L. Clarke, assistant professor, received a renewal of \$31,399 on his grant from the Cystic Fibrosis Foundation to study "Ion transport in an animal model of cystic fibrosis."

Publications:

L.L. Clarke, B.R. Grub, J.R. Yankaskas, et al. Relationship of a non-cystic fibrosis transmembrane conductance regulator-mediated chloride conductance to organ-level disease in Cfr (-1-) mice. Proc. Nat'l. Acad. Sci., USA, Jan, 1994;91: 479-483.

Dr. Leona Rubin, assistant professor, received an MU Research Board Grant for \$22,023 on the "Molecular Mechanism of Endotoxemia in the Myocardium". She also received a \$2,000 summer fellowship from the American Heart Association, Mo. Affiliate to study the "Role of alpha₁-beta₁- and beta₂-adenergic receptors in support of the failing endotoxemic myocardium."

Combined Biomedical Sciences publications:

L.J. Rubin, R.S. Keller, L.J. Parker, et al. Contractile dysfunction of myocytes isolated from endotoxemic guinea pigs. Shock, 1994;2:1-9.

Microbiology

Dr. G.K. Allen, assistant professor, a 1993 recipient of the Merck AgVet Award for Creativity, received a \$15,000 grant to work on the "Development of ELISA-based detection systems for bovine TNF-, IFN-, and IL-2." Dr. Allen is also the coinvestigator on a \$5,000 grant to study the "Measurement of selected cytokine levels in bovine anaplasmosis."

Dr. Robert M. Corwin, professor, received a grant of \$9,600 for "An initial screening of a Monsanto compound for potential anthelmintic effects in the dog."

Dr. D.M. Estes, assistant professor, received a \$200,000 grant to study "Immunoglobulin isotype regulation in the bovine: role of T cell-derived cytokines."

Dr. Bimal K. Ray, assistant professor, received a \$33,000 grant to study "Liver-specific nuclear factors in alpha₁-acid glycoprotein gene expression."

Publications:

A. Ray, B.K. Ray. Serum amyloid A gene expression under acute-phase conditions involves participation of inducible C/EBP- and C/EBP- and their activation of phosphorylation. Mol. and Cell. Bio., 1994; June: 4324-4332.

Combined Microbiology publications:

D.M. Estes, C.W. Bailey, L. Barnett, et al. Fluorescence activated cell sorting-derived clones of *Babesia bigemina* show karyotype polymorphism. Parasitology Research 1994;80: 98-101.

Pathology

Dr. R.R. Hook Jr., associate professor, received a \$68,000 NIH grant to study the "Role of RH-like IgM in malaria". Dr. Hook also received a \$29,480 COR grant to investigate the role of virulence factors in *Trichomonas foetus* pathogenicity.

Dr. E.K. Steffen, research assistant professor, is the Co-PI on a \$390,000 USDA FSIS grant that looks at the "Preparation of reference meat specimens for bacteriology laboratory certification". Dr. Steffen is also the Co-PI on a \$9,711 USDA FF grant for the "Evaluation of live and killed *Salmonella schwarzengrund* vaccines for *S. choleraesuis* infections in swine". He is the recipient, as well, of a COR grant for \$3,473 to work on the "Development of an indirect fluorescent antibody test for the detection of lactate dehydrogenase-elevating virus infection in mice".

Dr. Larry Thornburg, associate professor.

Publications:

R.E. Esser, R.A. Angelo, L.P. Thornburg, et al. Cysteine proteinase inhibitors decrease articular cartilage and bone destruction in chronic inflammatory arthritis. Arthritis and Rheumatism 1994;37(2):236-247.

L.P. Thornberg. Blank slate or rough draft: A new metaphor for veterinary education in the 21st century. J. Am. Vet. Med. Assoc. 1994;204:196-198.

Combined Pathology Publications:

G.P. Boivin, R.R. Hook Jr., L.K. Riley. Development of a monoclonal antibody-based competitive inhibition enzyme-linked immunosorbent assay for detec-

Biomedical imaging available for veterinary medicine

Students and faculty will be able to capture, digitize, store and use biomedical images on a computer at the Biomedical Imaging Center located in the College of Veterinary Medicine Teaching Hospital.

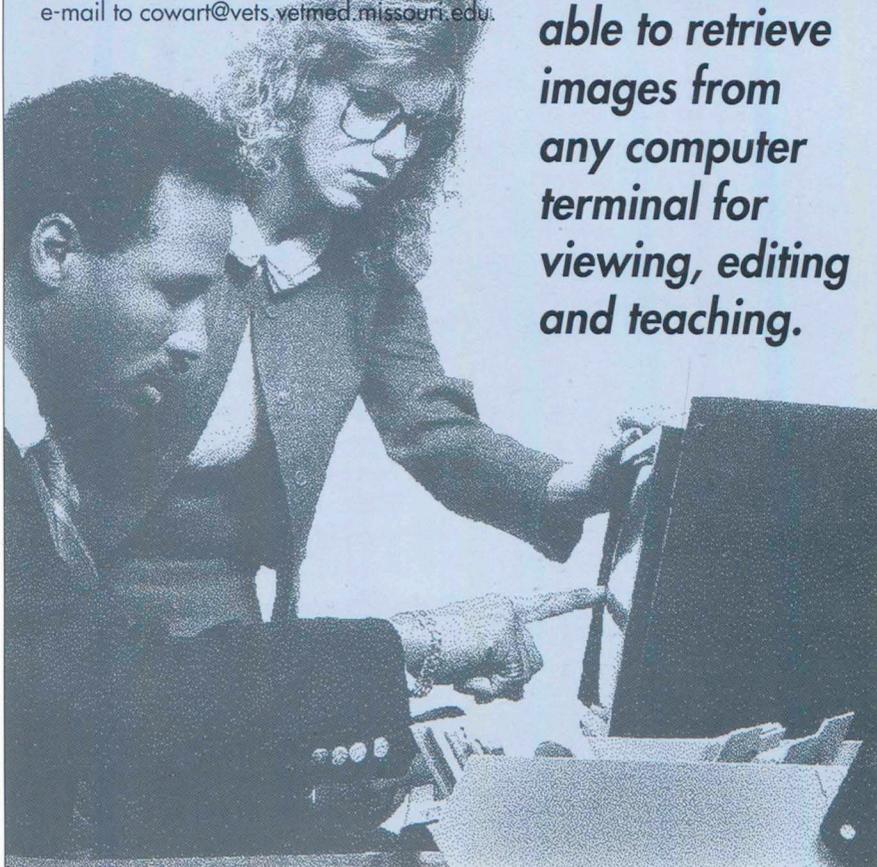
The center will allow medical images that have traditionally been stored on film to be converted to computer readable images. This will offer greater flexibility as well as expanded access and distribution.

Faculty and students will be able to retrieve images from any computer terminal for viewing, editing and teaching. Images can be sent over the computer network to classrooms or any site that image viewing is needed. Students who miss lectures, or who want to review material, will be able to retrieve the presentations from any student computer lab.

Two scanners are included: a large format CCD radiograph film scanner and a two-by-two slide scanner. The center will not be limited to scanned radiograph images, however, but it also will have equipment needed to capture medical images from sources such as endoscopes, ultrasound machines or any device providing a video signal.

The center in Clydesdale Hall will be directed by Drs. Ross Cowart, Eric Pope and Allen Hahn. For more information, contact Dr. Ross Cowart at (314) 882-6857 or send e-mail to cowart@vets.vetmed.missouri.edu.

Faculty and students will be able to retrieve images from any computer terminal for viewing, editing and teaching.



tion of *Bacillus piliformis* isolate-specific antibodies in laboratory animals. *Lab. anim. sci.* 1994; 44:153-157.

J.R. Bradfield, J.E. Wagner, G.P. Boivin, et al. Epizootic fatal dermatitis in athymic nude mice due to *Staphylococcus xylosus*. *Lab. An. Sci.* 1993;43(1): 111-113.

M. St. Claire, G.M. Lidl, A.J. Franklin, et al. Vitamin B responsive cystic enteritis in a pigeon colony. *Lab. Anim. Sci.* 1994;44(1):23-27.

M.C. St. Claire, G.M. Lidl, A.J. Bermudez, et al. Vitamin B-responsive cystic enteritis in a pigeon colony. *Lab. Anim. Sci.* 1994;44:79-81.

Diagnostic Laboratory

Dr. Stan W. Casteel, assistant professor.

Dr. Casteel is the recipient of three grants: He received \$11,107 for 1994-1995 to investigate "Chronic toxicity of fumonisin in pigs", funded by the USDA Animal Health Funds. He also received an \$8,660 1994-1995 USDA Animal Health Funds grant to study "Detection, identification and surveillance of *Fusarium moniliforme* mycotoxins in corn and feedstuffs". Dr. Casteel received \$500 as well from SmithKline Beecham to study "Developmental toxicity of pure fumonisin B₁ in hamsters".

Dr. George Rottinghaus, associate professor.

Publications:

D.M. Fort, C.L. Barnes, M.S. Tempesta, et al. Two new trichothecenes from *Fusarium sporotrichioides*. *J. Nat. Prod.* 1993;56:1890-1897.

D.W. Brown, C. O. McCoy, G.E. Rottinghaus. Experimental feeding of *Fusarium moniliforme* culture material containing fumonisin B₁ to channel catfish, *Ictalurus punctatus*. J. Bet. Diag. Invest. 1994;6:123-124.

L.F. Kubena, R.B. Harvey, T.S. Edrington, et al. Influence of ochratoxin A and diacetoxyscirpenol singly and in combination on broiler chicks. Poultry Science 1994;73:408-415.

Z.Zhang, D.E. Speirs, G.B. Garner, et al. Thermoregulatory effects of ergovaline isolated from endophyte-infected tall fescue seed on rats. J. Agric. Food Chem. 1994;42:954-958.

Combined Diagnostics Publications:

S.W. Casteel, G.C. Johnson, M.A. Miller, et al. *Amaranthus retroflexus* (redroot pigweed) poisoning in cattle. J. Am. Vet. Assoc. 1994;204:1068-1070.

J.L. Floss, S.W. Casteel, G.C. Johnson, et al. Developmental toxicity in hamsters of an aqueous extract of *Fusarium moniliforme* culture material containing known quantities on fumonisin b₁. Vet. Human Toxicol. 1994;36:5-10.

L.W. Pace, J.M. Kreeger, K.L. Bailey, et al. Microdilution antimicrobial susceptibilities of selected gram negative veterinary bacterial isolates. J. Vet. Diagn. Invest. 1993;5:541-547.

L.W. Pace, J.M. Kreeger, M.A. Miller, et al. Immunohistochemical staining of feline malignant fibrous histiocytomas. Bet Path. 1994;31:168-172.

L.W. Pace, J.R. Turk, R.E. Corstvet, et al. Induction of acute bronchopneumonia in mice by intrabronchial inoculation of *Pasteurella hemolytica* setotype 1. Can. J. Bet. Res. 1994;58:79-82

J.A. Robinson, G.K. Allen, E.M. Green, et al. A prospective study of septicemia in colostrum-deprived foals. Eq. Vet. J. 1993;25:214-219.

J.A. Robinson, G.K. Allen, E.M. Green, et al. Outbreak of septicemia in colostrum deprived foals. Proc. Amer. Assoc. Equine Pract. 1992;38.

J.R. Turk, W.H. Fales, C. W. Maddox, et al. Pleuropneumonia in Missouri swine". J. Vet. Diagn. Invest 1993;5:101-103.

Medicine and Surgery

Dr. Amy Grooters, assistant professor.

Publications:

A.M. Grooters, R.G. Sherding, D.S. Biller, et al. Hepatic abscesses associated with diabetes mellitus in two dogs. J. of Vet. Int. Med. 1994;8:203-206.

A.M. Grooters, T. Miyabayashi, D.S. Biller, et al. Sonographic appearance of uremic gastropathy in four dogs. Vet. Rad. and Ultrasound 1994;35:35-40.

A.M. Grooters, R.G. Sherding, S.E. Johnson. Endoscopy case of the month: gastric lymphosarcoma in a dog. Vet. Med. 1994;89:196-199.

A.M. Grooters, R.G. Sherding, S.E. Johnson, et al. Endoscopy case of the month: chronic vomiting and weight loss in a dog. Vet. Med. 1993;88:1128-1132.

Dr. Dennis O'Brien, associate professor, received a \$49,068 grant for a "Dose and efficacy determination study using nimodipine tablets to treat clinical cases of epilepsy in dogs" from Bayer Pharmaceutical Co., 1993-1994.

Publications:

D.P. O'Brien. Neurologic examination and development of the neonatal dog. Sem. in Vet. Med. and Surg. (Small Animal) 1994;9:62-67.

Theriogenologists pass certification exam

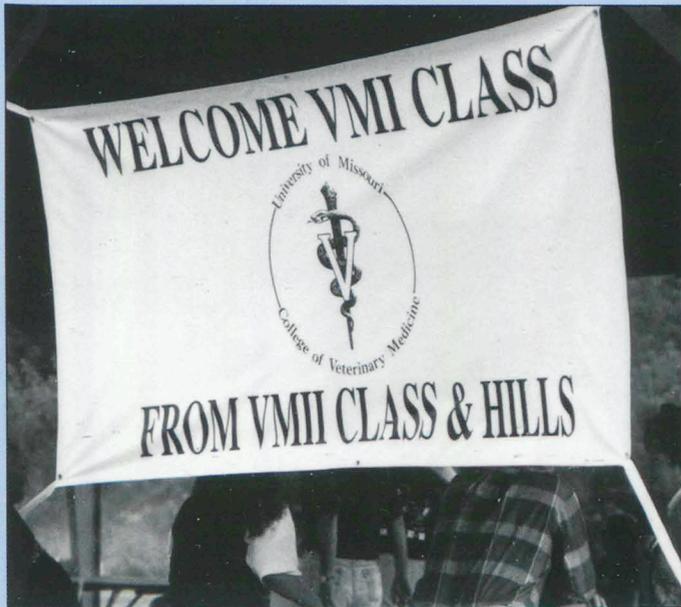
The MU College of Veterinary Medicine leads all colleges of veterinary medicine in the training of students and residents who have become certified in theriogenology, according to Dr. Robert Youngquist.

This year, three alumni received certification. Ruth Ellen Massey, DVM '88, Kenton Morgan, DVM '83, and Gary Nie, DVM '88, successfully passed the American College of Veterinary Theriogenology certification examination.

VM-1 students react to a traditional water balloon surprise from the VM-2 class during the welcome picnic.



C.B. CHASTAIN PHOTO



C.B. CHASTAIN PHOTO

The VM-1 picnic welcome is sponsored by the VM-2 class and Hill's Pet Nutrition, Inc.



JEFF BARROW PHOTO

VM-3 students Julie Twitty and Mark Johnson charm a snake at the 1994 Veterinary Medicine Open House.

College establishes Pre-Veterinary Scholars Program

Qualified undergraduate students will be guaranteed acceptance to the college under the recently established Pre-Veterinary Scholars Program. This is the third pre-vet program enacted in the nation out of 27 veterinary medical colleges.

"For many bright and eager young people who are hoping to pursue a career in veterinary medicine, this program will offer a tremendous opportunity," Dean H. Richard Adams says. "The benefits are outstanding for everyone involved. While the college will be able to look forward to enrolling some of the most promising future veterinarians in the state and nation, the students in the program will have an excellent opportunity to become acquainted with the college's programs, faculty and facilities as undergraduates."

Students in the program will be assigned a mentor within the college. These mentors will meet with students on a monthly basis to discuss students' academic progress and assist them in identifying undergraduate research opportunities.

"The mentorships will allow program participants to become familiar with the college's many activities and

opportunities before actually entering the college for professional training," said Dr. C.B. Chastain, associate dean for academic affairs. "In this way, we can use the program to provide increased opportunities for student success."

Students in the program will be assigned a mentor within the college. These mentors will meet with students on a monthly basis to discuss students' academic progress and assist them in identifying undergraduate research opportunities.

High-school seniors and MU freshmen with an ACT composite score of at least 30 or an equivalent SAT score are eligible to apply for the program. To remain eligible as

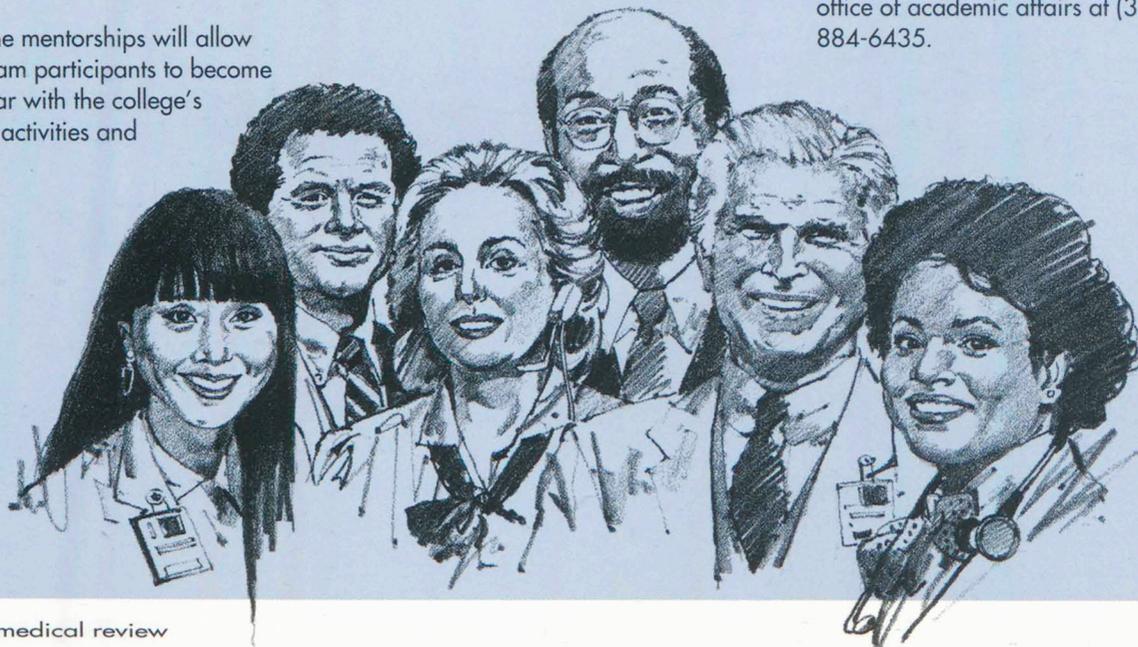
undergraduates, participants must:

- earn a grade of B or better in required courses;
- obtain an overall grade point average of 3.3 or higher on an academic scale of 4.0;
- acquire a minimum of 150 hours of observational experience with a veterinarian;
- Maintain an average course load of 15 credit hours per semester.
- Ten hours of course work must be completed in the MU Honors College.

College administrators also hope the program will help relieve students' anxieties.

"High-achievers often carry the most stress about whether they will be selected for a school," Chastain says. "The PVM Scholars Program will allow these students to focus on the task at hand and feel more secure about their future."

Fourteen students have been accepted into the program and two applications are pending. For more information about the Pre-Veterinary Scholars Program, contact the office of academic affairs at (314) 884-6435.



D.P. O'Brien. Neurology section editor, *Consultations in Feline Internal Medicine*, 2nd edition, John R. August, ed., W.B. Saunders, Philadelphia, 1993.

D.P. O'Brien. Circling. *Consultations in Feline Internal Medicine*, 2nd edition, John R. August, ed., W.B. Saunders, Philadelphia, 1993.

Combined Medicine and Surgery Publications:

L. Gurevich, W.H. Bennett, M.A. Anderson, et al. A force plate and display system for studying ground reaction forces in dogs. *Biomed Sci. Instrumentation* 1994;30:81-86.

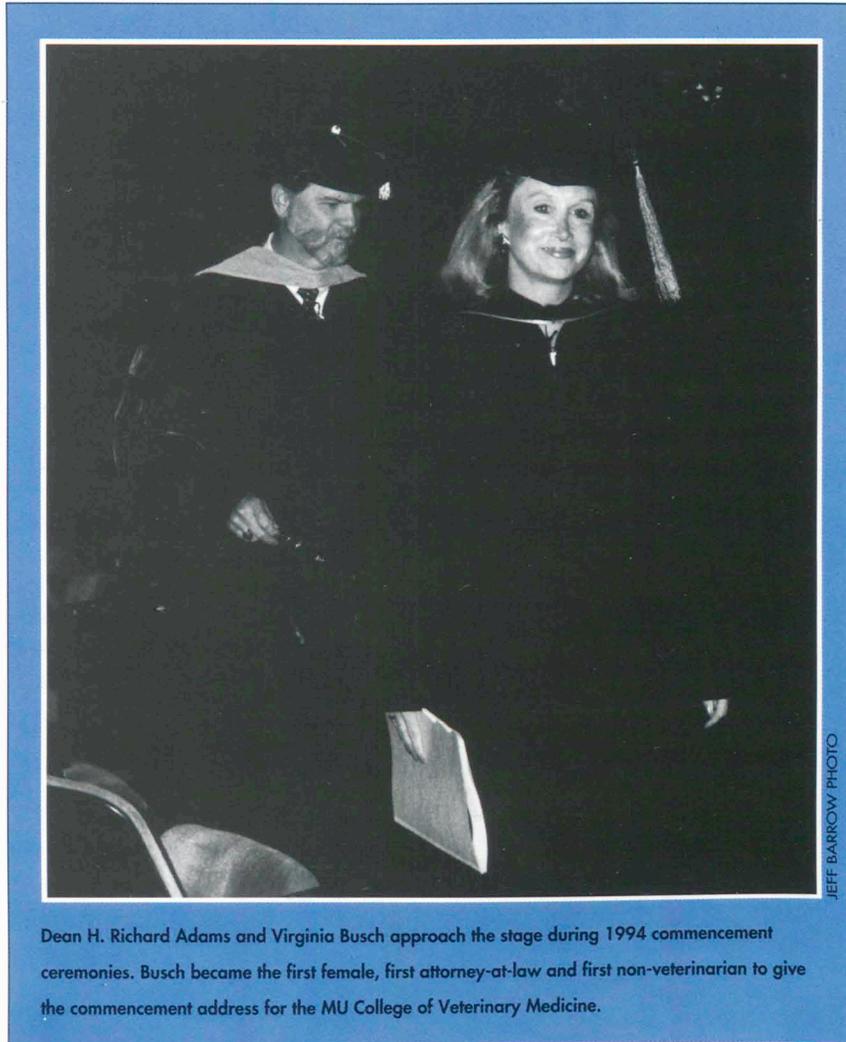
Combined Departments:

Medicine and Surgery/Biomedical Sciences

G.M. Constantinescu, E.M. Green, R.C. McClure. Block anesthesia of cranial nerves in the horse (landmarks, approaches, topographic anatomy and the technique of anesthesia). (*Rom Rev. Rom. Med. Vet.* 1994;4(1):48-67 (6 orig. fig.).

R.A. Kroll, G.M. Constantinescu. Congenital abnormalities of the spinal cord and vertebrae. In: *Consultations in Feline Internal Medicine 2*, ed. J.R. August, W.B. Saunders, 1994. pp413-420, 22 orig fig..

J.L. Tomlinson, G.M. Constantinescu. Two methods for repairing ruptures of the cranial cruciate ligament in dogs. Symposium: Identifying and surgically managing canine stifle injuries. *Vet. Med.* 1994;89(1):32-41.



Dean H. Richard Adams and Virginia Busch approach the stage during 1994 commencement ceremonies. Busch became the first female, first attorney-at-law and first non-veterinarian to give the commencement address for the MU College of Veterinary Medicine.

JEFF BARROW PHOTO

J. Williams Jr., J.L. Tomlinson, G.M. Constantinescu. Diagnosing and treating meniscal injuries in the dog. Symposium: Identifying and surgically managing canine stifle injuries. *Vet. Med.* 1994;89(1):42-47.

J.L. Tomlinson, G.M. Constantinescu. Repair of medial patellar luxation. Symposium: Identifying and surgically managing canine stifle injuries. *Vet. Med.* 1994;89(1):48-56.

Medicine and Surgery/Microbiology

G.K. Allen, E.M. Green, J.A. Robinson, H.E. Garner, et al. Serum tumor necrosis factor-alpha concentrations and clinical abnormalities in colostrum-fed and colostrum-deprived neonatal foals given endotoxin. *Amer. J. of Vet. Res.* 1993;54:1404-1410.

J.A. Robinson, G.K. Allen, E.M. Green, et al. A prospective study of septicemia in colostrum-deprived foals. *Equine Vet. Journal* 25:214-219.



J.A. Robinson, G.K. Allen, E.M. Green, et al. Serum interleukin- γ activity in endotoxin-infused neonatal foals." *Amer. J. of Vet. Res.* 1993;54:1411-1414.

Medicine and Surgery/Pathology/ Microbiology

B.T. Huss, L.L. Collier, L.L. Pittman, et al. Polyarthropathy and chorioretinitis with retinal detachment in a dog with systemic histoplasmosis. *J. Am. Vet. Med. Assoc.* 1994;30:217-224.

Medicine and Surgery/Pathology

L.L. Collier, B.K. Collins. Cryosurgical ablation of severe periocular papillomatosis in a dog. *J. Am. Vet. Med. Assoc.* 1994;204:881-883.

B.K. Collins, L.L. Collier, M.A. Miller, et al. Biologic behavior and clinical characteristics of canine conjunctival melanoma. *Prog. Vet. Comp. Ophthalmol.* 1993;3:135-140.

Combined Diagnostics/Medicine and Surgery Presentations and Abstracts:

G.C. Johnson, J.R. Turk, T.S. Morris, et al. Occipital condylar dysplasia in two Jacob sheep. *Cornell Vet.* 1994;84:91-98.

D. Noneman, S.L. Stockham, H. Shibuya, et al. A missense mutation in the glucose-6-phosphate dehydrogenase gene associated with hemolytic anemia in an American Saddlebred horse. *Blood* 1993;10,suppl. 1,446a.

D.P. O'Brien, R.A. Kroll, G.C. Johnson, et al. Myelinolysis after correction of hyponatremia in two dogs. *J. Vet. Intern. Med.* 1994;8:40-48.

The Sixties

Robert L. Doak, DVM '65, has been employed since March 1993 as veterinary pathologist at the diagnostic laboratory in Florida. He resides in Kissimmee, Fla.

The Eighties

Michael D. Lairmore, DVM '81, achieved tenure with promotion to associate professor in the veterinary pathology department at The Ohio State University. He earned his doctorate in 1987 at Colorado State University. He was board certified in veterinary pathology in 1988 and was employed from 1987-1990 at the Centers of Disease Control in Atlanta. He was assistant professor from 1990-1993 at The Ohio State University.

David Schmitt, DVM '85, and his wife, Julie, are the parents of twins, Matthew Wayne and Rachel Ruth, born on Dec. 3, 1993.

Mark Wilson, DVM '86, has started a new zoo animal management school at his private zoo, The Marion Nature Park in Belleview, Fla. He announced the zoo is expecting baby jaguars. He resides in Belleview, Fla.

Jay King, DVM '87, received certification in conservation and captive breeding of endangered species from the International Training Center for the Captive Propagation of Endangered Species in the United Kingdom. He also won a postgraduate award scheme from the Universities Federation for Animal Welfare.

Lisa Ingram, DVM '87, married David Brown May 7, 1994. She resides in Memphis, Tenn.

Ruth Ellen Massey, DVM '88, became board certified by the American College of Theriogenology in August 1993. She resides in Lecanto, Fla.

Gary Nie, DVM '88, became board certified by the American College of Theriogenology in August 1993.

Sarah Ann Seabaugh, DVM '88, married Welsey Kinsey of Cape Girardeau, Mo.

Chris and Debbie (Spencer) Biggerstaff, both DVM '88, are the parents of a son, Raymond Chris, born Jan. 13, 1994.

Lisa Blesi and Michael Breer, both DVM '89, were married on Sept. 4, 1993. They reside in Mission Viejo, Calif.

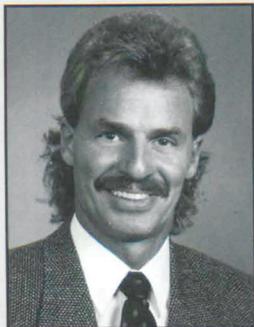
Kim Ehlers, DVM '89, and her husband Ernie are the parents of two daughters, Kaitlyn Ann born Oct. 25, 1991, and Erin Leah born on March 6, 1994. They reside in Mountain Grove, Mo.

The Nineties

Michelle Marshall, DVM '92, has joined the staff at Horton Animal Hospital in Columbia, Mo.

Richard Kutz, DVM '93, married Jackie Lentz Oct. 1, 1994. He is working for Equine Medical Services of Columbia, Mo.

Alumnus of the Year — Dr. Ronald K. Cott, DVM '73



Dr. Ronald K. Cott

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.

Ronald K. Cott, DVM '73, of Grandview, Mo., received the recognition this year. Dr. Cott owns a small-animal practice in Grandview and is active with the local chamber of commerce, PTA and Lutheran church.

He also is very active in state and regional professional organizations, currently serving as president of the Missouri Veterinary Medical Association. ♦

Alumnus serves on board of AVMA Foundation

James E. Nave, DVM '68, is one of six directors of the American Veterinary Medical Association Foundation and also is serving on the Advantage 21 steering committee.

In summer 1993, the AVMA Foundation launched its first intensive resource development drive called Advantage 21 — Initiatives in Veterinary Medicine. The Advantage 21 goal is to raise at least \$10 million over the next five years to build a permanently endowed base to fund educational and research programs of the Foundation.

Nave and the other members of the Advantage 21 committee will direct the fund development drive and advise the Foundation directors regarding policies for fund raising, planning, stewardship and interpretation of the needs of those served.

Current Foundation programs include the long-standing AVMA Auxiliary Student Loan Program, the research grant program, the Congressional Fellowship Program, the student preceptorship and externship programs and other special projects. ♦

OBITUARIES:

Gerald L. Johnson, DVM '56, age 64, of Independence, Mo., died March 19, 1994.

Ronald B. Blackwell, DVM '76, age 41, of Pewee Valley, Ky., died Dec. 28, 1993.

Richard B. Wescott, age 62, of Spokane, Wash., died Oct. 6, 1994. Dr. Wescott served on the faculty at the MU College of Veterinary Medicine from 1965 to 1971.

ALUMNI RECEPTIONS

Don't forget that you're invited to MU's veterinary medicine alumni receptions during regional and national conferences.

January 14-19

North American Veterinary Conference
Orlando, Fla.

Feb. 26 - March 2

Western Veterinary Conference
Las Vegas, Nev.

July 8-12

The Annual Meeting of the American Veterinary Medicine Association
Pittsburg, Pa.

Sept. 16-19

Central Veterinary Conference
Kansas City, Mo.

Alumni Photo Album — *Class Reunions in '94*



Class of 1969 (left)
and Class of 1984
(below).



CONTRIBUTED PHOTOS

VIMR *Catching up with...*

Dr. Loren Kintner

Dr. Loren Kintner says that his lifetime of experience doing necropsies on decomposed Missouri livestock prepared him for interpreting after-death changes observed in manatee that had been in the Florida sun for several days. The lesions were less easily interpreted, however, due to the lack of literature on manatee diseases compared to domestic livestock.

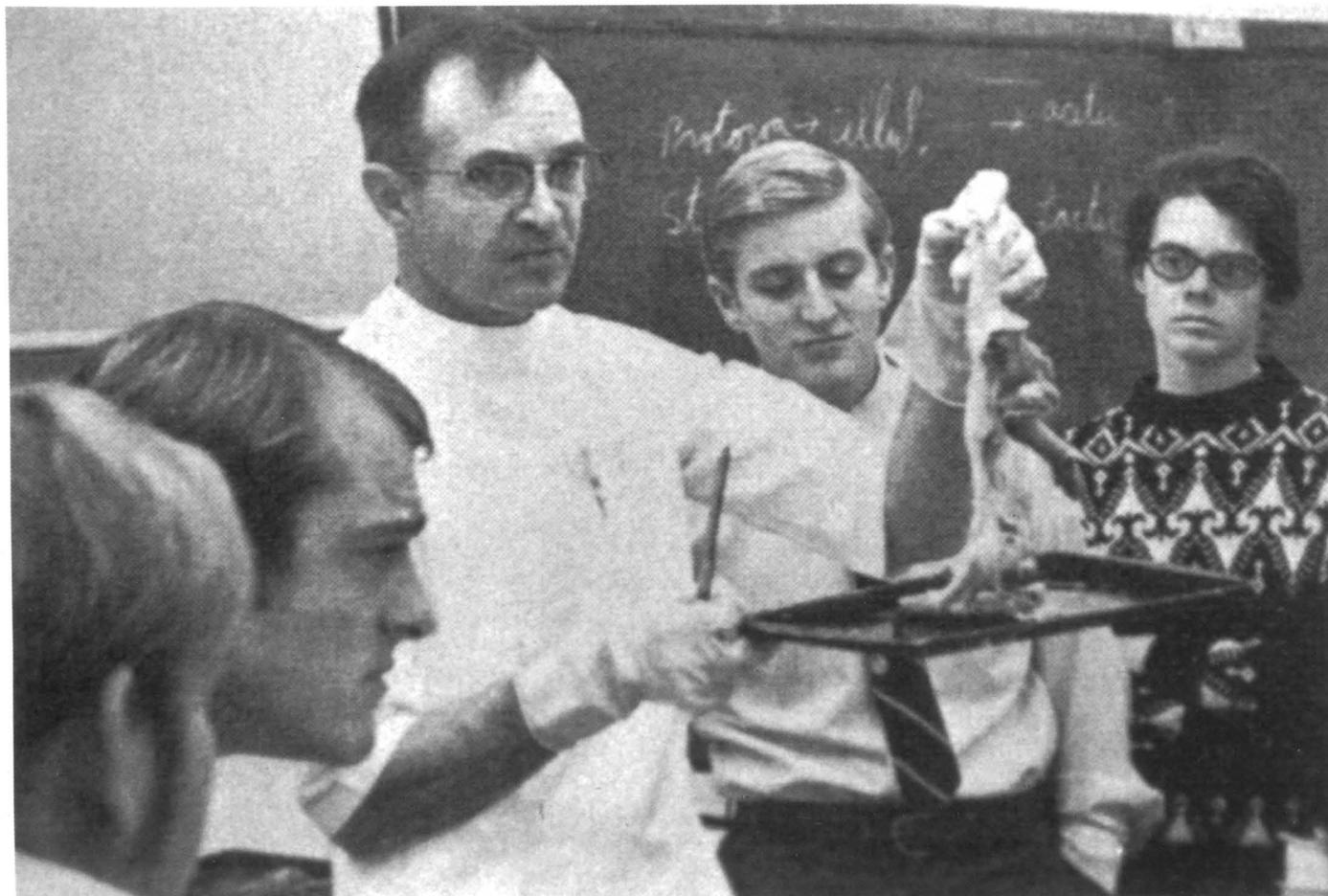
"Decomposed manatee smell much worse than dogs or cattle," he says. "They really do gag bystanders. You can smell them 10 miles away."

This olfactory fact made it difficult for marine biologists to find a facility to do necropsies on manatee. Kintner, who started his career at MU in 1949 as a *continued on next page*



Dr. Loren Kintner plays the organ to the delight of his granddaughter Erin and wife Treva while pet birds perch on his shoulder and music stand.

CONTRIBUTED PHOTO



CONTRIBUTED PHOTO

Dr. Kintner is shown teaching pathology in 1974. One of his former students Dr. Peg Miller DVM '77 says, "The example set by Dr. Kintner led many MU students to a career in pathology."

veterinary pathologist, performed necropsies on 150 manatees within a two-year period that his laboratory in Florida accepted manatees. This record makes him a leading expert on the cause of death for the endangered marine mammal.

Dr. Kintner became involved with the manatee project after starting a second career in Florida. In 1985, he accepted early retirement after a 36-year career at MU. He took a position at the Florida State Veterinary Diagnostic Laboratory in Kissimmee, Fla., and retired from that post in 1992. Since then he has concentrated on turning his yard into a version of paradise with "every kind of plant, fruit and flower," says Treva, his wife. She added that he kayaks several mornings each week on a nearby 11-mile lake.

Among his other duties at the Florida Veterinary Diagnostic Lab, Kintner became the resident expert on dead manatees. There was a lot of interest at the time in the scientific community and among the general public to determine why the animals were dying.

It was estimated at that time that only 2,000 manatees remained in Florida waters. Many people believed that boat propellers were fatally injuring the manatees as they floated just beneath the water's surface.

"There is a wealth of knowledge about cattle," he says. "But very little about manatees."

Kintner found that less than one-third of manatee deaths were attributable to boat-induced trauma. Most of the remaining manatee were dying from environmen-

tal problems.

The metabolism of a manatee is about one-half that of land mammals. Their diet consists primarily of sea grass, a ration that is low in carbohydrates. Consequently, they don't produce much heat and, in the winter, they seek warm-water areas such as warm springs. Warm winter water seldom contains food.

The manatee population is depleted from the combination of cold stress, winter fasting and inability to lactate after a long winter fast.

Kintner says the manatee is a very docile animal.

"They love humans," he says. "When you are in a boat, they will swim up and put their heads in your hand."

In addition to learning about manatees, Kintner became a student of other tropical and neo-tropical species when he relocated in Florida. The first topic he studied was exotic birds; then he moved on to whales and dolphins.

"I've discovered a whole new intellectual life," he says about his retirement. ♦

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 to, among other things, a subscription to the *Missouri Alumnus* magazine, special library privileges at Ellis Library, special group rates on international and domestic tours, and the other opportunities.

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

Most important, a 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.



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Mailing Address _____

City/State/ZIP _____

MU Student # _____ Class Year _____

Spouse attended MU? Spouse's name _____

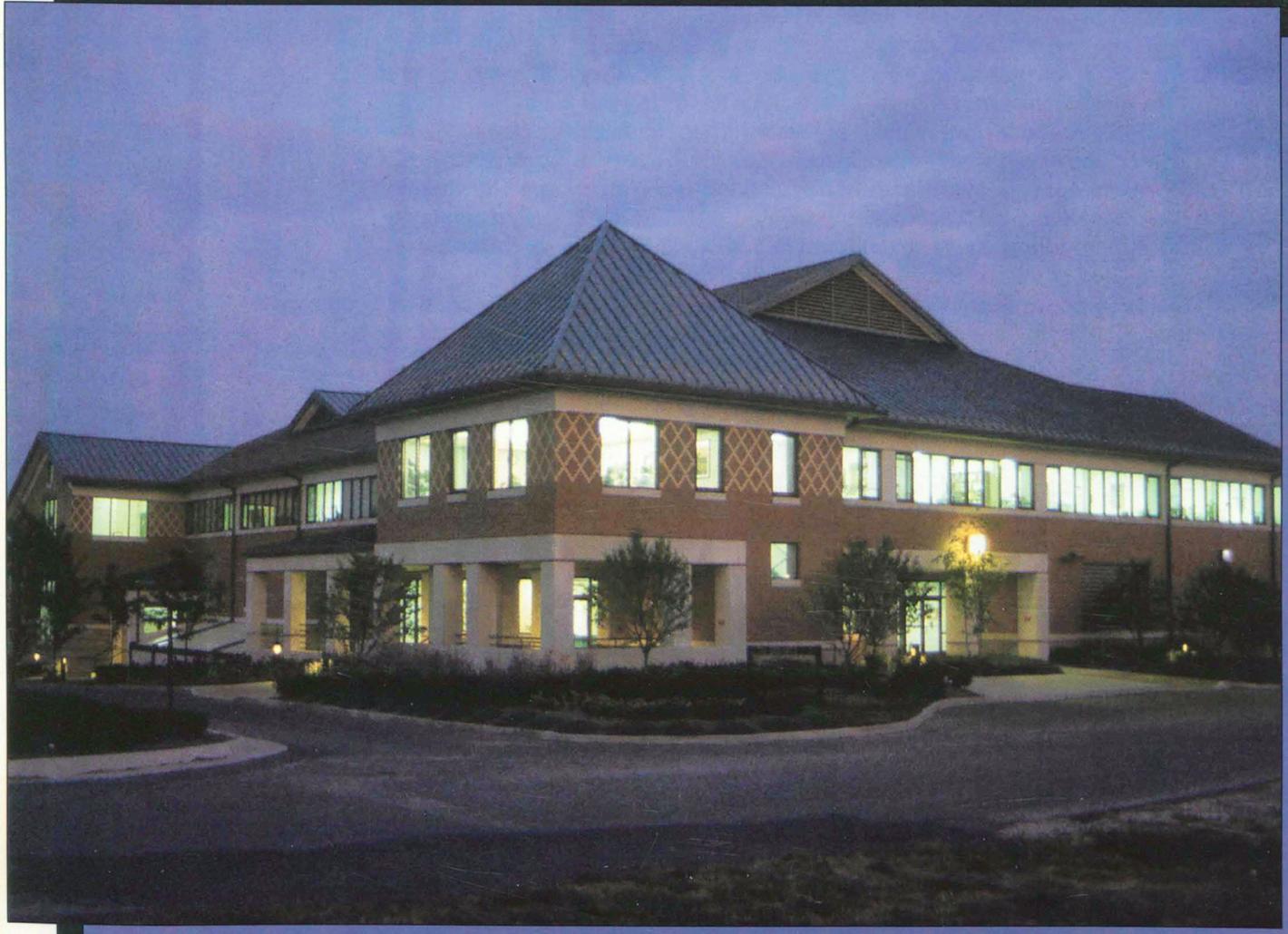
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Return the coupon along with your payment to MU Alumni Association,
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Animal care and teaching activities extend into the night at the Veterinary Medical Teaching Hospital in Clydesdale Hall.

HOWARD WILSON PHOTO

Veterinary

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University of Missouri – College of Veterinary Medicine

ACHIEVEMENT ROUND-UP

Vol. 1, Fall 1994

STUDENT AND FACULTY AWARDS AND SCHOLARSHIPS

\$137,000 total for 1994

FACULTY GRANTS

\$11,814,449 total

\$2,050,560 total for FY '94

BASIC SCIENCE - DEPARTMENTAL AWARDS	2
SERVICE AWARDS	2
PROFICIENCY AWARDS	2
SCHOLASTIC AWARDS	4
OTHER STUDENT AWARDS	5
FACULTY AWARDS	5
FACULTY ACKNOWLEDGEMENT	6
OTHER AWARDS	6
FACULTY GRANTS	7-11

STUDENT AND FACULTY AWARDS AND SCHOLARSHIPS

BASIC SCIENCE - DEPARTMENTAL AWARDS

Physiology Award

(Cash Award) • Sponsored by the Greater St. Louis Veterinary Medical Association.
Gary S. Voetberg, VM-1

Anatomy Award

(Cash Award) • Sponsored by the Greater Kansas City Veterinary Medical Association.
Cory Stiens, VM-1

Microbiology Award

(Cash Award) • Sponsored by Bioceutic Laboratories.
James Pratt, VM-2

Cecil Elder Award

(Cash Award) • Endowed by the late Dr. Cecil Elder.
Chad Lehenbauer, VM-2

SERVICE AWARDS

West Central VMA Leadership Award

(Cash Award) • Sponsored by the West Central Veterinary Medical Association.
Eric Siebel-Spath, VM-1

AVMA Auxiliary Award

(Cash Award) • Sponsored by the AVMA Auxiliary.
Chris Johnson, VM-4

PROFICIENCY AWARDS

Dr. Edgar Ebert Memorial Awards

(Cash Award) • Established by Mrs. Edgar Ebert with contributions from faculty, alumni and friends in honor of her husband.
Jimi Cook, VM-4
(Small animal medicine and surgery)
Janet Kershner, VM-4
(Large animal medicine and surgery)

English Practitioner Award

(Cash Award) • Established by Dr. and Mrs. James E. English to recognize proficiency in large and small animal medicine and surgery.
Bruce Mueller, VM-4
Bruce Whittle, VM-4

Harlan E. Jensen Ophthalmology Award

(Cash Award) • Endowed by Dr. and Mrs. H.E. Jensen.
George Abrams, VM-4
Persis Chittenden, VM-4

Impromed Provides Award

(Software package) • Sponsored by Impromed to recognize proficiency in small animal diagnosis.
Joe Sansone, VM-3

Rolf Memorial Award

(Gentle Doctor Statuette) • Sponsored by Dr. Chris Rolf and Dr. Nelson Rolf in memory of their parents to honor all parents of veterinary students.
James R. Bassett, VM-4

American Animal Hospital Association Award

(Cash Award) • Sponsored by American Animal Hospital Association to recognize proficiency in small animal medicine and surgery.
James R. Bassett, VM-4

Hill's Student Awards

(Cash Award) • Sponsored by Hill's Pet Products to students with an interest in clinical nutrition.
Nicole Lucido, VM-1 *John Shaner, VM-2*
Bret Morgan, VM-3 *Rick Smith, VM-4*

Columbia Kennel Club Award

(Cash Award) • Sponsored by Columbia Kennel Club to recognize understanding and compassion for small animals.
Christine Handlin, VM-4

Elsie S. Roth Equine Award

(Cash Award) • Sponsored by Elsie S. Roth.
Dawn Mrad, VM-4

American Association of Feline Practitioners Award

(A plaque and two years free membership in the association) • Sponsored by the American Association of Feline Practitioners.

Renee Rucinsky, VM-4

Loren D. Kintner Veterinary Diagnostic Laboratory Award

(Cash Award) • Sponsored by Dr. and Mrs. Loren D. Kintner and family.

Amanda Fales, VM-3

Adrian J. Durant Award

(Cash Award) • Sponsored by the family of the late Dr. Adrian J. Durant to recognize proficiency concerning poultry diseases.

Kathleen Revelt-Hindman, VM-3

Jefferson City Kennel Club Award

(Cash Award) • Sponsored by the Jefferson City Kennel Club to recognize a student with proficiency in small animal medicine and who went to high school in a 75-mile radius of Jefferson City.

Gayla Joiner Whittle, VM-4

Lucy B. Davis Scholarships in Small Animal Medicine and Surgery

(Cash Award) • Sponsored in memory of Lucy B. Davis.

James R. Bassett, VM-4

(Small Animal Medicine)

Jimi Cook, VM-4

(Small Animal Surgery)

Lloyd Selby Award

(Cash Award) • Established in honor of the late Dr. Lloyd Selby to recognize proficiency in public health and epidemiology.

James R. Bassett, VM-4

Swine Proficiency Award

(Cash Award) • Sponsored by Purina Mills Inc.

Jeffrey Buswell, VM-4

American College of Veterinary Surgeons Student Award

(A certificate and a year's subscription to Veterinary Surgery) • Sponsored by the American College of Veterinary Surgeons.

Jose Velez, VM-4

Proficiency in Business Management Award

(Cash Award) • Established by Mr. Ben Riley.

Mary Astorino, VM-4

Miss America Scholarship in Veterinary Medicine

(Cash Award) • Endowed by the Miss America Pageant in honor of Dr. Debbye Turner, Miss America 1990, who is a graduate of the College of Veterinary Medicine, to recognize a female student with proficiency in veterinary medicine.

Melissa Dollar, VM-2

Vector Awards

(Cash Award) • Sponsored by practicing veterinarians who read the VECTOR, a monthly newsletter on small animal medicine, to recognize proficiency in veterinary journalism.

Dr. Ruth Halenda

Redhage Award

(Cash Award) • Sponsored by James H. Redhage to recognize a resident who demonstrates proficiency in canine medicine and surgery.

Dr. Elizabeth Settles

Theriogenology Award

(Cash Award) • Sponsored by the student bookstore.

John Marcotte, VM-4

Radiology Award

(Cash Award) • Sponsored by the student bookstore.

Dawn Mrad, VM-4

Anesthesiology Award

(Cash Award) • Sponsored by the student bookstore.

Gayla Joiner Whittle, VM-4

Emmett McCune Avian Medicine Award

(Cash Award) • Sponsored by the student bookstore.

Kathleen Revelt-Hindman, VM-3

L.N. Atkinson, DVM, Memorial Fund

(Cash Award) • Sponsored by family, friends and business associates of the late Dr. L.N. Atkinson to recognize proficiency in canine medicine and surgery.

Dr. James "Ned" Williams

Gary Weddle Wildlife and Exotic Animal Award

(Cash Award) • Sponsored by Dr. Gary Weddle.
Victoria Ochoa, VM-4

Randolph Practitioner Award

(Cash Award) • Sponsored by Mrs. Kathryn Randolph and friends of the late J.R. Randolph to recognize proficiency in the general practice of veterinary medicine. Michael Bloss, VM-4

Upjohn Awards

(Cash Award) • Sponsored by the Upjohn Co.
Kirstin Bloss, VM-4
(Small animal medicine and surgery)
Michael Bloss, VM-4
(Large animal medicine and surgery)

SCHOLASTIC AWARDS

Merck Awards

(Merck Veterinary Manual) • Sponsored by Merck and Co. to recognize academic proficiency All VM-4:

James R. Bassett	Dawn R. Mrad
Bruce A. Hood	James L. Cook
Kirstin D. Bloss	John A. Schulte
Victoria B. Ochoa	Nannette M. Taylor
Teresa D. Schieber	Christine M. Handlin
Gwen E. Bilyk	

Pfizer Award

(Cash Award) • Sponsored by Charles Pfizer and Co., Inc., to recognize scholarship and leadership. Shelly Daume VM-3

Phi Zeta Award

(Cash Award) • Sponsored by Phi Zeta to recognize scholastic achievement. Jenny Webster, VM-2

Dr. and Mrs. Leslie C. Murphy Scholarship Award

(Cash Award) • Sponsored by Dr. and Mrs. Leslie C. Murphy to recognize the graduating student(s) with the highest scholastic average for the entire professional curriculum. James Bassett, VM-4 Dawn Mrad, VM-4

A.H. Groth Student Research Award

(Cash Award) • Sponsored by family and friends in memory of A. Holland Groth to recognize interest in veterinary medical research. Sandra Gross, VM-3

Gilbreath-McLorn and the J.B. Arthur Foundation Scholarships

(Cash Award) • Sponsored by Gilbreath-McLorn Estate and the J.B. Arthur Foundation to recognize scholastic record and professional potential.

Jane Aslakson, VM-2	Michael Peters, VM-1
Steve Brush, VM-3	Christopher Puzio, VM-2
Rosalind Gannaway, VM-1	Lynn Schroeder, VM-3
Kimberly Green, VM-2	Julie Twitty, VM-2
Koren Hellerich, VM-2	John Walter, VM-3
Diane Krenning, VM-3	Wendi Wells, VM-3
Dana Luebbering, VM-3	Debra Zerr, VM-3
Kurt Miller, VM-3	

Frank Wells Scholarship

(Cash Award) • Established by the estate of Nellie F. Wells in memory of her brother. Amanda Fales, VM-4 Craig Woods, VM-4

Orthopedic Foundation for Animals Award

(Cash Award) • Sponsored by the Orthopedic Foundation for Animals to recognize students in the top 15 percent of the class. Jeania Beachner, VM-2 Tod Wihlen, VM-2

Veterinary Medicine Memorial Scholarship

(Cash Award) • Sponsored by the College of Veterinary Medicine's Development Fund to recognize the student with the highest scholastic average after the first year of study. Corrie Stiens, VM-1

Frank E. and Ina Hickerson Rhoads Scholarship

(Cash Award) • Sponsored in memory of Frank E. and Ina Hickerson Rhoads to recognize third- and fourth-year students in the upper 10 percent of their class. Rosalinda Marrufo, VM-2 Michelle Neidt, VM-3 Wendy Noll, VM-3

**The Hazel C. and Edgar F. Ebert
Memorial Scholarship Fund in
Veterinary Medicine**

(Cash Award) • Sponsored by Hazel and Edgar Ebert to recognize two men and two women students for scholastic ability.

Laurissa Heinz, VM-2
Matt Povlovich, VM-2
Sandra Van Camp, VM-3
Jose Trujillo-Torres, VM-3

J.E. Salsbury Scholarships

(Cash Award) • Sponsored by the Salsbury Foundation to recognize scholarship and leadership.

All VM-3
Tricia Grossenburg
Vance Grossenburg
Sarah Hock
Scott Smith
Anthony Tarantino

**Who's Who in American Colleges
and Universities**

All VM-4
George A. Abrams
James R. Bassett
Jeffery N. Buswell
Laura A. Davis
Bruce A. Hood
Kimberly K. Klotz
Victoria B. Ochoa
A. Renee Rucinsky
Matthew Starost
Nannette M. Taylor
Owen L. Allphin
Richard M. Bloss
James L. Cook
Eugene L. Ervin
Christopher W. Johnson
Dawn R. Mrad
Dolly F. Plaster
Teresa D. Schieber
Shaun H. Sweiger
Bruce Whittle

**OTHER STUDENT
AWARDS**

**American College of Veterinary
Radiology Award**

(Subscription to the Veterinary Radiology & Ultrasound) • Sponsored by the American College of Veterinary Radiology.
Nannette M. Taylor, VM-4

**St. Charles (Mo.) Kennel Club, Inc.,
Scholarship**

(Cash Award) • Sponsored by the St. Charles (Mo.) Kennel Club, Inc., to recognize scholastic ability.
Tracy Burckhardt, VM-4

SCAVMA Presidents Award

(Gavel) • Sponsored by the Student Chapter of the American Veterinary Medical Association to the past president of the Student Chapter of the Veterinary Medical Association.

Kim Klotz, VM-4

Married Students Award

(Cash Award) • Sponsored by Veterinary Auxiliary.
Todd Wihlen, VM-3

Mable McCune Award

(Cash Award) • Sponsored by the Veterinary Auxiliary.
Susan Langley

**Gamma Sigma Delta Senior
Scholastic Award**

• Sponsored by Gamma Sigma Delta to recognize an outstanding VM-4 student who is in the top 15 percent of the class.

James R. Bassett, VM-4

**Gamma Sigma Delta Junior
Scholastic Award**

• Sponsored by Gamma Sigma Delta to recognize an outstanding student who is in the top 5 percent of the class.

Jenny Webster, VM-2

1994 SAVMA Award of Appreciation

(Framed certificate posted in library) • Sponsored by the College of Veterinary Medicine to recognize students who were instrumental in the success of the national SAVMA Symposium in 1994.

Chris Johnson, VM-4

Bill Williams, VM-3

Bojrab Research Award

(Cash award) • Sponsored by Dr. M.J. Bojrab to recognize a surgery resident.

Dr. Michelle Waschak

**FACULTY
AWARDS**

Golden Aesculapius Teaching Award

(Cash Award) • Sponsored by the College of Veterinary Medicine, each class selects an outstanding teacher.

VM-1 – Dr. John Amann

VM-2 – Dr. Steve Stockham

VM-3 – Dr. Richard Marion

VM-4 – Dr. Amy Grooters

Norden Distinguished Teacher Award

(Cash Award) • Sponsored by SmithKline Beecham Co. to honor Carl J. Norden.

Dr. Keith Collins

Beecham Research Award

(Cash Award) • Sponsored by SmithKline Beecham Co. to recognize a faculty member or graduate student whose veterinary medicine research has promise for national recognition.

Dr. M. H. Laughlin

FACULTY ACKNOWLEDGEMENT

E.P. Pope Memorial Award

• In memory of Dr. Edward P. Pope who was one of the founders of the American Association of Veterinary Laboratory Diagnosticians, and presented annually since 1974 to a person who has made noteworthy contributions to the specialty of veterinary diagnostic medicine.

Dr. Harvey Gosser

Faculty-Alumni Award

• Sponsored by the MU Alumni Association to recognize the achievements of faculty and alumni.

Dr. Allen Hahn

1993 AAHA Award of Merit

• Sponsored by the American Animal Hospital Association to recognize contributions to the veterinary profession.

Dr. Brent Jones

SAVMA Teaching Excellence Award - Basic Sciences

• Nominated by the students of the MU College of Veterinary Medicine.

Dr. Brian Frappier

Dr. Alan Allert

SAVMA Teaching Excellence Award - Clinical Sciences

• Nominated by the students of the MU College of Veterinary Medicine.

Dr. Everett Aronson

William T. Kemper Fellowship - Teaching Excellence

(Cash award) • Sponsored by the University of Missouri.

Dr. Steve Stockham

OTHER AWARDS

Dean's Impact Award

(Engraved watch and plaque) • Sponsored by the MU College of Veterinary Medicine to recognize contributions that have had a long-lasting and significant beneficial impact on the college.

Lt. Gov. Roger B. Wilson

Ron Haffey

Honor Diploma

• Presented by the Romania Veterinary Medical Association.

Dr. Gheorge Constantinescu

FACULTY GRANTS

NAME	AGENCY	PROJECT TITLE	AWARD TOTAL	FY '94 AMOUNT
DEAN'S OFFICE				
Buening, Gerald*	Natl Heart Lung Blood Inst	Small Instrumentation Grant	\$8,645	\$1,468
Buening, Gerald*	Natl Heart Lung Blood Inst	Small Instrumentation Grants Program	\$15,367	\$14,062
Randle, Richard	Colorado State Univ	NANMS Cow-Calf Health & Productivity: Standardized Performance	\$9,000	\$1,318
			\$33,012	\$16,848
VETERINARY BIOMEDICAL SCIENCES				
Adams, H Richard*	Natl Inst Child Health Human Dev	Premature Labor Endotoxemia and Cytokine Mechanisms	\$340,000	\$67,310
Adams, H Richard*	Natl Inst Child Health Human Dev	Premature Birth: Endotoxemia & Mediator Mechanisms	\$70,600	\$35,300
Adams, H Richard*	Natl Heart Lung Blood Inst	Lipopolysaccharide & Cardiac Myocyte Dysfunction	\$102,074	\$33,994
Brown, Olen*	Natl Inst Environmental Health Sciences	Cellular Free Radical Toxicity Mechanisms	\$158,517	\$25,246
Clarke, Lane*	Cystic Fibrosis Foundation	Ion Transport in An Animal Model of Cystic Fibrosis	\$62,256	\$30,992
Foley, Charles*	Natl Heart Lung Blood Inst	Baroreflex Control of the Circulation in Dehydration	\$44,300	\$22,513
Franklin, D.* (MU School of Medicine)	Natl Heart Lung Blood Inst	Coronary Collateral Dynamics	\$301,333	
Schadt, James				\$2,144
Hale, Calvin C*	Am Heart Assn	The Autoregulatory Site of Cardiac Sodium-Calcium Exchange	\$120,000	\$22,440
Hale, Calvin C*	Am Heart Assn (Mo Affiliate)	Molecular Characterization of the Cardiac Endothelin Receptor	\$45,375	\$2,849
Hale, Calvin C*	Am Heart Assn (Mo Affiliate)	Mo AHA-Summer Fellowship	\$2,000	\$0
Hasser, Eileen*	Am Heart Assn (Mo Affiliate)	Sexual Dimorphism in Cardiovascular Responses to Vasopressin	\$54,996	\$27,496
Hasser, Eileen	Am Heart Assn (Mo Affiliate)	Renin-Angiotensin System & Hypertension	\$32,967	\$5,324

NAME	AGENCY	PROJECT TITLE	AWARD TOTAL	FY '94 AMOUNT
Hasser, Eileen* Schadt, James	Natl Heart Lung Blood Inst	Area Postrema & Cardiovascular Control in Dehydration	\$212,888	\$110,042
Hasser, Eileen*	Am Heart Assn (Mo Affiliate)	Am Heart Assoc/Mo Affiliate Inc	\$2,000	\$1,968
Laughlin, Harold	Natl Heart Lung Blood Inst	Cardiovascular & Renal Physiology Pharmacology & Biochemistry	\$185,551	\$648
Laughlin, Harold* Amann, John Brown, Olen McAlliser, Richard	Natl Heart Lung Blood Inst	Training: Muscle Blood Flow & Capillary Dynamics	\$1,354,693	\$101,197 \$22,190 \$2,513 \$44,622
Laughlin, Harold* Adams, H Richard Amann, John	Natl Heart Lung Blood Inst	Exercise-Coronary Reserve Coronary Heart Disease	\$1,036,659	\$116,562 \$28,782 \$28,782
Meyers, R.P.* (MU School of Medicine) Amann, John	Cordis Corp	Cordis Intracoronary Stent	\$258,769	\$1,838
Parker, J.* (MU School of Medicine) Adams, H Richard Hale, Calvin C	Natl Heart Lung Blood Inst	Myocardial Dysfunction & Ca ²⁺ Fluxes in Shock	\$400,000	\$905 \$433
Price, Elmer*	Natl Heart Lung Blood Inst	Structural Function Studies of Na K-ATPase	\$217,338	\$11,514
Rubin, Leona*	Am Heart Assn (Mo Affiliate)	Molecular Mechanism of Endotoxemia in the Myocardium	\$49,674	\$18,283
Rubin, Leona*	Am Heart Assn (Mo Affiliate)	Role of Adrenergic Receptors	\$2,000	\$32
Schadt, James*	Am Heart Assn (Mo Affiliate)	Stress & Cardiovascular Control During Blood Loss	\$49,078	\$9,349
Schadt, James	Am Heart Assn (Mo Affiliate)	Mo AHA-Summer Fellowship	\$2,000	\$0
Vom Saal* (MU School of Biological Sciences) Ganjam, Venkateshu Welshons, Wade	Natl Inst on Aging	Effects of Estrogen on Prostate Function During Aging	\$530,000	\$6,971 \$6,971
Welshons, Wade*	Natl Cancer Inst	Regulation of Steroid Receptor Turnover in Cancer Cells	\$349,276	\$104,718
			\$5,984,344	\$893,928

NAME	AGENCY	PROJECT TITLE	AWARD TOTAL	FY '94 AMOUNT
VETERINARY DIAGNOSTIC LAB.				
Fales, William*	Mo Pork Producers Assn	Identification & Characterization of Salmonella	\$4,668	\$3,478
VETERINARY MEDICINE & SURGERY				
Chastain, CB*	USDA: Other	USDA, Aphis, Smith-Kilborne Foreign Animal Disease Program	\$1,800	\$1,800
Griggs Jr, Douglas* (MU School of Medicine) Garner, Harold	Natl Heart Lung Blood Inst	Coronary Collateral Function in the Conscious Pony	\$774,360	\$162,475
Hahn, Allen	Natl Inst of Health: Other	Medical Informatics Res Training Program	\$232,529	\$9,882
Jones, Brent*	Waltham Ctr for Pet Nutrition	Dietary Management of Canine Pancreatitis	\$32,990	\$10,053
McCaw, Dudley*	Intervet Am	Parvovirus Vaccine Evaluation	\$17,589	\$13,156
McCaw, Dudley*	Sherwood Med	The Feasibility of Using Tympanic Membrane Temperature	\$615	\$408
O'Brien, Dennis*	Bayer Ag	Preliminary Clinical Evaluation of the Efficacy of Baye 9736	\$4,500	\$665
O'Brien, Dennis*	Miles Inc	Dose & Efficacy Determination Study Using Nimodipine	\$49,086	\$33,486
Randle, Richard* Hardin, David Tubbs, Roderick	MFA	Production Medicine Internship/ Master's Program	\$10,000	\$2,959
Tubbs, Roderick*	Boehringer Ingelheim	Porcine Reproductive & Respiratory Syndrome (PRRS) Vaccine	\$12,644	\$2,463
Youngquist, Robert	USDA: Coop State Res Svc	Intrafollicular Control of Ovarian Follicular Recruitment	\$219,000	\$14,514
			\$1,355,113	\$251,861

NAME	AGENCY	PROJECT TITLE	AWARD TOTAL	FY '94 AMOUNT
VETERINARY MICROBIOLOGY				
Berg, John*	Schering Plough Animal Health	Dose Titration Study: Sch 51854 Canine Tablets	\$48,000	\$24,387
Buening, Gerald*	Univ of Florida	Improved Animal Vaccine Through Biotechnology-Phase II	\$508,313	\$36,196
Carson, Charles Andre				\$9,323
Ray, Bimal				\$9,323
Buening, Gerald*	USDA	Natl Needs Training Grant in Biotechnology as Related to Food	\$108,000	\$14,248
Hale, Calvin C.				\$3,670
Riley, LeLa				\$3,670
Carson, Charles Andre*	USDA	Preparation of Reference Meat Specimens for Bacteriology Lab	\$618,000	\$79,618
Thorne, James				\$25,635
Steffen, Earl				\$15,381
Corwin, Robert*	Monsanto	An Initial Screening of a Monsanto Compound	\$9,600	\$9,600
Estes, D. Mark*	USDA	Immunoglobulin Isotype Regulation in the Bovine	\$200,000	\$51,978
Fales, William*	Natl Pork Prod Council	Identification & Characterization of Salmonella	\$12,840	\$10,112
Besch-Willford, Cynthia				\$2,729
Ray, Bimal*	Health Resources & Svcs Admin	Regulation of Serum Amyloid a Protein Synthesis	\$97,300	\$40,520
			\$1,602,053	\$336,390

VETERINARY PATHOLOGY				
Besch-Willford, Cynthia*	Natl Ctr Res Resources	Car Bacillus Infections in Lab Animals	\$104,300	\$11,823
Besch-Willford, Cynthia	Mo Pork Producers Assn	Identification & Characterization of Salmonella	\$4,668	\$992
Fales, William				\$198
Hook Jr, Reuel Robert*	Natl Inst of Allergy	Role of Rf-Like IGM in Resistance to Malaria	\$86,223	\$26,355
Green, Theodore				
Johnson, Gary	Caremark Inc	Molecular Genetics of Type I Von Willebrand Disease	\$70,000	\$4,972
Johnson, Gary*	Am Kennel Club	Detection of Carriers of Heritable Canine Cataracts	\$77,270	\$6,203
Collins, Keith				\$2,292
Riley, LeLa				\$2,292
Collier, Linda				
Moore, Cecil				
Ray, Bimal				

NAME	AGENCY	PROJECT TITLE	AWARD TOTAL	FY '94 AMOUNT
McLaughlin, R.* Wagner, J. (Co-PI) Besch-Willford, Cynthia Franklin, C. Hook, R. Riley, L. Steffen, E.	Natl Ctr Res Resources	Postdoctoral Training in Laboratory Animal Medicine	\$854,722	
Riley, LeLa*	Natl Ctr Res Resources	Molecular Basis of Tyzzer's Disease in Res Animals	\$91,544	\$45,772
Riley, LeLa* Besch-Willford, Cynthia Hook Jr, Reuel Robert Steffen, Earl Wagner, Joseph	Program Resources	Novel Rodent Parvoviruses	\$83,400	\$33,887 \$1,735 \$1,735 \$1,735 \$1,735
Wagner, Joseph*	Natl Cancer Inst	Operation of an Animal Diagnostic Lab	\$888,944	\$153,834
Wagner, Joseph* Besch-Willford, Cynthia Frankin, Craig Hook Jr, Reuel Robert Riley, LeLa Steffen, Earl	Natl Ctr Res Resources	Comparative Medical Research Center	\$574,188	\$68,827 \$36,091 \$53,091 \$36,091 \$46,716 \$11,679
			\$2,835,259	\$548,055

GRAND TOTAL FY'94 **\$11,814,449** **\$2,050,560**

* Principal Investigator or sponsor



UNIVERSITY OF MISSOURI-COLUMBIA
an equal opportunity institution

Preceptorship Opportunity for MU Students—1995

Contact Information

Veterinarian's Name _____

Clinic/Hospital Name _____

Street Address/RR _____

City _____ State _____ Zip _____

Business Phone (____) _____ Home Phone (____) _____

Type of Business Small Animal _____ % Beef _____ %
Dairy _____ % Equine _____ %
Swine _____ % Exotics _____ %
Sheep/goats _____ %

Months of Opportunity Jan-Feb: Mar-Apr:
July-Aug: Oct-Dec:

Recommended Clinical Block(s) to have been completed at College

Small Animal Medicine Food Animal Med/Surg
Small Animal Surgery Theriogenol/Ophthalmol
Anesthesia/Radiology Clin Path/Diag Lab
Equine Medicine/Surgery

Duties of Students

NOTE: If you have completed a Preceptorship form for the College in the past year, please do no duplicate it with this form. Thanks.

Benefits for Students

Wages: _____ per week.
Living quarters provided?
 Yes No

Preveterinary Students

I am willing to be contacted by preveterinary students concerning the possibility of unpaid observational experience in my practice.
 Yes No

Please fill out this form and drop it in the mail, no postage necessary.

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Office of Academic Affairs
W203 Veterinary Medicine Building
College of Veterinary Medicine



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