



## Veterinarians Hold 80th Annual Meeting

The Missouri Veterinary Medical Assn. is holding its 80th annual meeting at Tan-Tar-A Resort, Osage Beach, Jan. 30-Feb. 1.

Staff from the UMC School of Veterinary Medicine included in the program are Dr. Roger E. Brown, professor and chairman of veterinary medicine-surgery; Dr. James R. Coffman, associate professor of veterinary medicine-surgery; Dr. E. A. Corley, professor of veterinary medicine-surgery; Dr. Harold E. Garner, professor of veterinary medicine-surgery; Dr. J. T. McGinity, professor of veterinary medicine-surgery; Dr. John D. Rhoades, associate professor of veterinary medicine-surgery; Dr. Donald A. Schmidt, professor of veterinary pathology; Dr. Charles E. Short, associate professor of veterinary medicine-surgery; and Dr. Walter R. Threlfall, resident in veterinary medicine-surgery.

## CBS Films Study On Alcoholic Swine

Columbia Broadcasting System has filmed and presented on national news programs the study by a UMC associate professor of veterinary pathology concerning the effects of a steady diet of alcohol on miniature swine.

A CBS film crew recorded the 15 alcoholic pigs used in research by Dr. Russell V. Brown at Sinclair Research Farm in southwest Columbia. Dr. Brown is using a special breed of miniature pig which is physiologically similar to man and has discovered that pigs have an affinity for alcohol similar to humans'.

## Dr. Eyestone Appointed Chairman of Pathology

Dr. Willard Halsey Eyestone has been appointed professor and chairman of the Department of Veterinary Pathology of the University of Missouri-Columbia School of Veterinary Medicine as of March 1, 1972. He is presently Chief of Optometry, Pharmacy, Podiatry and Veterinary Medicine Branch, Division of Physician and Health Professions Education, Bureau of Health Manpower Education, National Institutes of Health, Washington D.C.

His first appointment with the National Institutes of Health was in 1949 as a veterinarian with the National Cancer Institute. In 1955 he became head of the Comparative Pathology Section of the National Cancer Institute and Division of Research Services. In 1959 he was appointed assistant chief of Grants and Training Branch, National Heart Institute. This title was changed in 1961 to Chief, Regional Primate Research Centers Branch, Extramural Programs, National Heart Institute. He became Chief of the Animal Resources Branch of the Division of Research Resources in 1962 and was appointed to his present position in 1970.

Dr. Eyestone received B.S. and D.V.M. degrees from Kansas State College, an M.P.H. from Harvard University and a Ph.D. (pathology) from the University of Wisconsin.

Dr. Eyestone is an international authority on pathology specializing in comparative pathology and cancer research and has authored many publications on cancer research. He received the Griffin Award, the highest honor of the American Association for Labora-

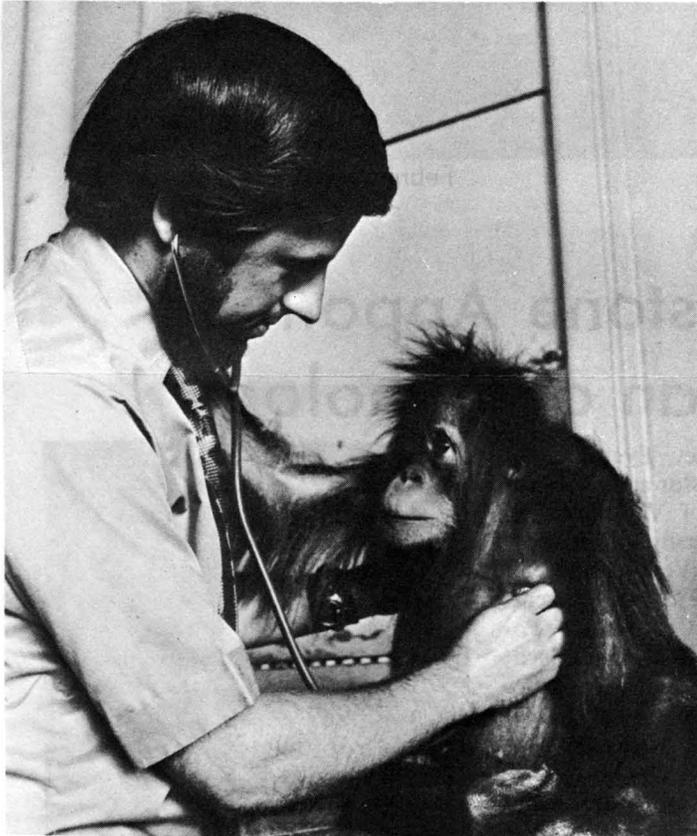


tory Animal Science, and the Meritorious Service Medal of the Public Health Service. In 1968 he received the Distinguished Alumnus Service Award in the field of veterinary medicine from the Kansas State University College of Veterinary Medicine.

He was a major in the U.S. Army Reserves until 1959 and is now a Veterinary Officer Director in the U.S. Public Health Service.

Among his professional memberships are the American Veterinary Medical Association, American Association of Laboratory Animal Science, American Association of Pathologists and Bacteriologists, the International Academy of Pathology, U.S. Animal Health Association, American Association for the Advancement of Science and the American College of Veterinary Pathologists of which he has served in several offices including president.

## Zoo Veterinarian Finds Job Exciting



**Dr. Boever and Tommy**

A baboon with impacted canine teeth, a jaguar with abrasions on his foot pads and a great blue heron with bone abnormalities due to a nutritional deficiency are just a few of Dr. William J. Boever's typical "patients."

As veterinarian for the St. Louis zoo, the 1970 graduate of the University's School of Veterinary Medicine is responsible for more than 3,300 animals representing 850 species. At 26 Dr. Boever is one of the youngest zoo veterinarians in the country. The St. Louis position was open when he graduated from Veterinary School; he applied and got the job. He was no stranger to the zoo, however, having worked there summers while finishing his last two years at Mizzou.

"The summer job was really the beginning of my interest in exotic animals," he says. "I hadn't thought of working in the area of zoo animal care until then. It's an exciting field. Nearly every case is something different and challenging." Even seemingly common cases involving cuts, lacerations and pregnancies are really not so common when the animal involved might be a grizzly bear or an elephant.

In an average day, Dr. Boever sees almost 25 animals at the zoo and a house call can easily mean a trip to a lion's lair or a polar bear's pool. House calls are the rule rather than the ex-

ception for this doctor, as the majority of the zoo animals are subject to shock and emotional stress if moved. Even though most of the treatments are handled in the animals' cages, the zoo is fully equipped with its own pharmacy, diagnostic laboratory and hospital.

The hospital is used primarily as a quarantine station where new animals are isolated and given check-ups before being introduced into the zoo population, Dr. Boever explains. There is some surgery performed at the hospital, but this usually involves treatment of cuts, lacerations, some obstetrical surgery, tumor removal and occasional dental work.

"Surgery isn't required as often at the zoo as it is in private practice because of the control exercised over the animals," he says. "Zoo animals aren't getting hit by cars, getting into fights or getting caught in fences as often as domestic animals."

With surgery at a minimum, Dr. Boever says preventive medicine is the biggest part of his job. "Parasite control, sanitation and immunization are just a few of the areas involved," he adds.

Whether treating a Malayan tapir with an abscessed jaw or prescribing cough medicine for a chimp with a cold, Dr. Boever believes the diseases of exotic animals are really not so different from those of domestic animals or even human beings. The method of treatment, not the disease, is what is uncommon. Handling and treating wild animals calls for techniques of anesthesia and restraint unique to zoo animal medicine, he says. Dr. Boever, for example, is a marksman with a capture gun used to fire various sized darts containing either medication or anesthetics. High-strung animals such as antelopes require even further precautions for treatment. "In order to approach them, it is often necessary to dress in the familiar clothing of their keeper," he explains.

Another hazard of a doctor's profession is being called out in the middle of the night. But few doctors have been called to assist the delivery of a baby camel or a baby Lesser Kudu (a breed of antelope) as Dr. Boever has. The camel and the Lesser Kudu were just two of the 800-900 births at the zoo each year.

In caring for the large number of animals at the St. Louis zoo, Dr. Boever is assisted by a staff which includes a technician, veterinary assistant, veterinary student, zoology student and secretary. He also relies on zoo personnel responsible for the day to day care of the animals.

Besides being one of the few full-time veterinarians in the United States (he estimates the number at between 20 and 30), Dr. Boever also is a research associate with the University's department of veterinary pathology and gives occasional lectures on the Columbia Campus.

He also directs a preceptorship program in zoo animal medicine for veterinary students. (He established the program after joining the St. Louis zoo staff.) One student is currently enrolled and others are lined up for the rest of the year in the two month program which is taken on one of the free blocks in the veterinary medicine curriculum. Participating students work at the zoo directly under Dr. Boever's supervision.

As the exotic animal expert in St. Louis, Dr. Boever also has a private practice treating pets of area residents whose tastes run to lions, leopards, and boa constrictors.

*Reprinted from the Missouri Alumnus*

## Sinclair Farm Receives Grant

Sinclair Comparative Medicine Research Farm has been given a grant for studies of aging and chronic diseases in animals.

Dr. Charles C. Middleton, director of the farm and associate professor of veterinary pathology and community health and medical practice at the University of Missouri-Columbia, is director of the \$160,000 grant from the U.S. Department of Health, Education and Welfare.

Research will be concentrated on animal model development for alcoholism, atherosclerosis, diabetes, melanoma and undernutrition.

Specifically, studies will be initiated on histochemical and immunofluorescent characteristics of naturally occurring atherosclerosis in aged swine; antibody responses of protein undernourishment in laboratory mice; influence of thymic hormone on development of cell-mediated immunity in newborn mice; purification of specific antibody to tumor specific transplantation antigens; the effects of saturated and unsaturated fats on atherosclerosis in guinea pigs; alcohol consumption and

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## Pork Producers Grant \$5,000 for TGE Study

Producing immunity in the sow to prevent baby pigs from contracting transmissible gastroenteritis (TGE) is the purpose of a study being conducted at the University of Missouri-Columbia School of Veterinary Medicine.

Dr. Gerald Buening, assistant professor of microbiology, is conducting the study which was funded by the National Pork Producers Council for \$5,000.

The disease is highly fatal to newborn pigs during the first week after birth. It is characterized by vomiting, diarrhea and dehydration.

Dr. Buening is interested in a particular immunoglobulin called IgA which is found in the colostrum and milk of the sows.

## Bierschwal CoAuthors Fetotomy Lab Manual

A laboratory manual, "The Technique of Fetotomy (Embryotomy) in Large Animals," has been published by Dr. C. J. Bierschwal, professor of veterinary medicine and surgery, UMC School of Veterinary Medicine and Prof. Dr. C. H. W. DeBois, University of Utrecht, The Netherlands.

The 50-page illustrated manual, published by VM Publishing Inc., Bonner Springs, Kan., is divided into five sections: general introduction to fetotomy, anterior presentation, posterior presentation, abnormal fetal posture and fetal monstrosities.

The book was coauthored after Dr. Bierschwal's sabbatical leave in 1968-69 at the Clinic for Veterinary Obstetrics and Gynecology in Utrecht where he was a clinical instructor and conducted research. Dr. Bierschwal describes the techniques in the manual as

those taught at Utrecht.

Dr. Bierschwal received his D.V.M. degree from Iowa State University and M.S. degree from the University of Missouri. He spent three years in the U.S. Marine Corps and has been in the Army Reserve Veterinary Corps since 1950. He was in private practice in Excelsior Springs, Mo., before coming to UMC as an instructor in 1951.

## Workshops Planned For Practitioners

A practitioners' workshop on Reproduction in the Mare will be held April 8-9 by the Continuing Education and Extension Division of the UMC School of Veterinary Medicine.

Veterinary medicine faculty members participating include Dr. C. J. Bierschwal, Dr. J. R. Coffman, Dr. C. E. Martin and Dr. E. C. Mather, all of the department of veterinary medicine and surgery.

Enrollment forms have been mailed to Missouri veterinarians, with enrollment limited to 12 for the in-depth lecture and laboratory workshop. The program has been approved for appropriate continuing education units for the Missouri Academy of Veterinary Medicine.

Other Continuing Education programs scheduled are the workshop on Principles and Methods of Veterinary Continuing Education, Oct. 9-11, and the 48th annual Conference for Veterinarians, Oct. 15-16.

An independent study program on Infertility and Breeding Soundness Examination of the Bull is offered. For further information on this and other programs, contact Dr. W. F. McCulloch, director; Office of Continuing Education; School of Veterinary Medicine; University of Missouri; Columbia, Mo. 65201.

Other workshops planned with dates not yet scheduled include Small Animal Surgery and Clinical Pathology.

## Dr. Sheldon Named To Pathology Staff

Dr. James J. Sheldon, formerly professor in the department of animal pathology at the University of Arizona, Tucson, has been named professor of veterinary pathology, UMC School of Veterinary Medicine.

Dr. Sheldon received a D.V.M. from Iowa State University at Ames, where he later served as visiting professor.

As a professor at Arizona's department of animal pathology he conducted research in the bovine respiratory disease complex. Dr. Sheldon has also worked at Abbott Laboratories, Chicago, in clinical and histopathological tissue evaluation for acute, chronic and teratologic aspects of developmental drugs in animals.

Dr. Sheldon is a member of the AVMA, Alpha Zeta, Gamma Sigma Delta and the American College of Veterinary Pathologists.



## —About the Faculty—

*Dr. L.G. Tritschler*, assistant professor of veterinary medicine and surgery, presented a talk on "Venezuelan Equine Encephalomyelitis" to the Northeast Veterinary Medical Association Dec. 15 in Moberly, Mo.

*Dr. J.D. Rhoades*, associate professor of veterinary medicine and surgery, spoke to the New Orleans Veterinary Medical Association on "Fluid Therapy in the Canine" and "Hepatic Disease in the Canine" Jan. 10 in New Orleans, La.

*Dr. H.E. Jensen*, associate professor of veterinary medicine and surgery, gave presentations on "Diseases of the Cornea of Large and Small Animals," "Clinical Ophthalmology Excluding the Cornea," and "Clinical Conditions of the Fundus" to the Intermountain Veterinary Medical Association in late January in Las Vegas.

## Student Schedules Free Block at MSU

Christopher "Chris" Smith, a junior in veterinary medicine, is at Michigan State University during an optional block of the segmented curriculum. She is registered and pays tuition as an out-of-state special student for the winter quarter which began Jan. 5 for 10 weeks.

"I am rotating through the small animal clinic stations with their senior students and in addition am taking Dr. Brinker's Orthopedic course," she writes.

This is the first time a student in the segmented curriculum has been able to schedule an educational experience with another veterinary school during a free block, says Dr. Roger Brown, coordinator of the segmented curriculum.

## Sinclair Farm

protein-calorie interrelationship in young miniature swine; alcohol palatability studies on young pigs fed "ad libitum;" and immunologic study of swine cutaneous melanoma.

Studies conducted during the past year concerned familial hypercholesterolemia in beagle dogs; alcohol studies in miniature swine; alcohol studies in seven inbred strains of mice with high and low alcohol preference; undernutrition in young miniature swine; the influence of protein undernutrition of the immune responses of miniature swine; the influence of undernutrition on serum growth hormone levels and influence of age on levels of serum growth hormone; immunologic study of swine cutaneous melanoma; the genetic control of serum cholesterol level in pigeons; naturally occurring atherosclerosis in the wild turkey; studies on the diabetogenicity of streptozotocin in miniature swine and in white carneaux pigeons; and comparative studies on carbohydrate tolerance, serum lipids and serum insulin atherosclerosis in *mystromys albigaudatus*.

School of Veterinary Medicine

## VETERINARY MEDICAL REVIEW

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Columbia, Missouri 65201



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