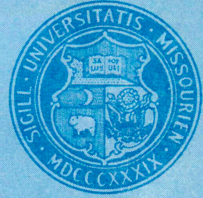




# SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



APRIL, 1969 - NO. 21

## Upjohn Dinner Held

Senior students and faculty members of the UMC School of Veterinary Medicine were guests of The Upjohn Company at its annual Dean's Night Dinner on March 20 here.

Earlier in the day Dr. James H. Sokolowski (Ill. '65) spoke on "Steroid Agents in the Control of Reproduction in the Dog" which was open to the entire School. Dr. Sokolowski is project leader of the reproduction and physiology group in the Upjohn Company's Animal Health Products Research and Development Section.

Dr. A. H. Emmons, University director of the Research Facility and professor of nuclear engineering and radiological sciences, spoke that evening on "The Nuclear Reactor and Its Applications." Entertainment was provided by two lively high school students, Mike Gill and George Keepers, who presented their version of "The Odd Couple."

About 90 people attended this annual stag event.

## Continuing Education Program New Committee Helps Plan

A new faculty committee has been formed to help develop a comprehensive plan and program for continuing education to Missouri veterinarians. This Faculty Continuing Education Committee is incorporating suggestions from practicing veterinarians and both the M.V.M.A.'s Advisory Committee to the School and the Continuing Education Committee.

The newly formed Committee is also reviewing programs from other veterinary schools and establishing immediate and long range goals, needs and objectives. One of the problems defined by the Committee was lack of sufficient facilities for ideal "learner" oriented specialized workshops.

The 10-man committee was named by Dean B. W. Kingrey upon the recommendation of the Faculty Policy Committee. The members include Drs. E. A. Corley, T. M. Eagle, R. E. Hoffer, D. W. Johnson, J. T. McGinity, of Veterinary Medicine and Surgery; Dr. J. E. Breazile of Veterinary Anatomy; Dr. C. R. Dorn of Veterinary Microbiology, Dr. B. E. Hooper, of Veterinary Pathology, Dr. M. E. Tumbleson, of Veterinary Physiology and Pharmacology, and Dr. W. F. McCulloch, director of continuing education for veterinary medicine.



Dean B. W. Kingrey (left) and Dr. Sokolowski watch Mike Gill perform as one of the "Odd Couple."

## Mental Health Institute Awards \$5,319 for Placenta Drug Study

The National Institute of Mental Health just awarded a grant of \$5,319 to Dr. Badi M. Boulos, assistant professor of veterinary physiology and pharmacology and of pharmacology, for the study of "Kinetics of Placental Transfer of Drugs."

Dr. Charles R. Short, assistant professor of veterinary physiology and pharmacology, is the co-principal investigator. Drs. Boulos and Short want to expand the knowledge of the transfer of drugs across the placenta. The administration of drugs to a pregnant female still is hazardous because of incomplete knowledge of placental transfer.

A series of drugs, selected on the basis of their physico-chemical properties will be studied.

*The 45th Annual Conference for Veterinarians will be held on Nov. 3-4, 1969 here. This is also the date for the UMC homecoming football weekend against Kansas State University and the Veterinary Alumni Banquet on Nov. 2. Be sure to order your football tickets right away.*



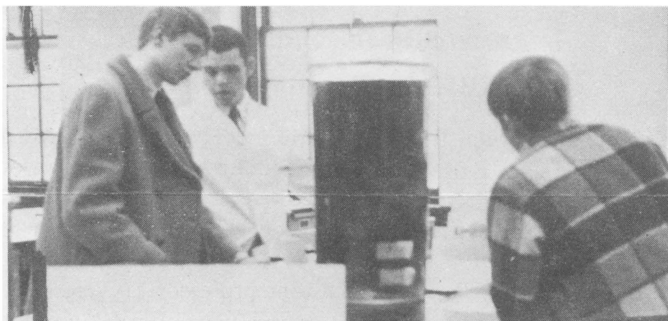


## Career Day, Open House Draws 475 Visitors

About 200 people including students, parents, counselors and veterinarians attended annual Career Day activities March 27 at the School of Veterinary Medicine here.

The students came from throughout Missouri in private cars and some on chartered busses. Half of the group listened to an auditorium program while the others went on tours of facilities and exhibits set up by students within each of the five departments. In the afternoon the groups switched events.

Dr. B. W. Kingrey, dean of the School, and John Gambvy, president of the Missouri Chapter of the A.V.M.A., welcomed the groups and the officers of the Missouri V.M.A. were introduced.



The ancient "fibroid" monkey is still a conversation piece.



Wayne Wingfield, third-year student, starts a tour for Open House. Wayne was in charge of the tours for all day and evening.

The rest of the program was directed by Dr. William McCulloch, director of continuing education for veterinary medicine. A movie entitled "A Degree of Importance" that was made by the California Student V.M.A. was shown both in the morning and afternoon sessions.

Several topics were discussed by third-year veterinary medical students and practicing veterinarians. They were "Preparation for Veterinary School" by Ed King; "Professional School" by John Cuneio; "Veterinarians in Public Service" by Darrel Meadows; "Practice Specialties" by Miss Joyce Murphy; "Large Animal Practice" by Dr. R. E. Hertzog, Lee's Summit; "Small Animal Practice" by Dr. D. W. Stanton, St. Louis; and "Admissions Information" by Dr. G. C. Shelton, associate dean for academic affairs.

A catered lunch was served in the new UMC Livestock Center. An Open House for the community was held from 7 to 9 p.m. with about 275 people in attendance. Exhibits and tours were held in the evening with no formal program.

The day's activities were co-sponsored by the Missouri VMA, School of Veterinary Medicine and Student Chapter of the AVMA. The Student Chapter and its Auxiliary sponsored the Open House.

### Advanced Radiographic Workshop To Be Held May 17-18 at Clinic

A second radiographic workshop will be held on May 17-18 at the Veterinary Clinic. This advanced Workshop for small animals will emphasize film interpretation. A brief review of radiographic techniques will be covered.

The Workshop will be limited to 10 veterinarians and the registration deadline is May 1st. Enrollment fee is \$100. The Workshop will be presented by Drs. E. A. Corley, professor of veterinary medicine and surgery; J. T. Ticer, associate professor of veterinary medicine and surgery; and Mr. J. W. Evans, radiological technician.

## Neurological Problems Studied In Animals by Dr. Breazile

Humans are not the only ones who suffer from mental disturbances. Neurological problems affect animals, as well. Moreover, veterinarian researchers are beginning to point to similarities in some mental disorders which occur both in man and in certain animals. In studies by Dr. James E. Breazile, professor of veterinary anatomy, mental deficiencies have been shown to occur both in young animals as well as human infants.

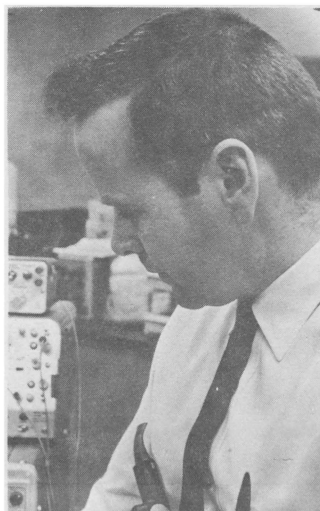
"Pediatric neurology of infants or animals, is relatively new," according to Dr. Breazile who has been doing research in this area for the last six or seven years. Although his research has been conducted mostly with dogs, related investigations also concern larger animals. Dogs, he says, provide a convenient model, because their size makes them easier to manipulate than larger animals.

The goal Dr. Breazile has set for his work is two-sided: First, he hopes to help the veterinary clinician be more effective in the diagnosis of problems in newborn animals. Secondly, he is attempting to develop a study of mental diseases in animals, whose findings can be applied to newborn children.

"The same deficiencies which doctors note in mentally retarded children are also found in animals," says Dr. Breazile. "For example, an abnormality of motor control in a mentally retarded child can be similarly observed in the animal counterpart."

In order to achieve his ends, Dr. Breazile has set up a three-step study program which he is following. His first step involves determining the normal motor reflexes for research animals at the time of birth. In this step, puppies up to six weeks old are used as his models. Beyond this age, however, they obtain much of the adult dog's motor activity and no longer are valuable for this part of the research.

A second step is to determine what is normal in the adult animal, so that differences and abnormalities can be



compared. "A five week old puppy, can be compared in his maturity to the maturity that a human reaches at the age of one to two and a half years." Very little study has been done in defining normal maturity in animals.

The primary problem associated with studying a newborn child is equally vexing when studying a puppy. Motor capabilities are all that we can examine in newborn dogs and in children. "We are mostly testing animal reflexes, such as the pediatric neurologist does when

he examines a newborn infant," says Dr. Breazile.

The third step in his research is to study virus disorders of his newborn models and to determine if these are similar to human disorders. Viral induced disorders are the most common of neurological problems in animals. Some of these disorders seem to resemble human diseases. Evidence is pointing, for example, to a disease in pigs that appears similar to Parkinson's disease in adult humans. Furthermore, if the virus which causes cerebral palsy in humans can be shown to be similar to whatever causes cerebral palsy in humans, then the swine can serve as a valuable model here also.

Veterinary research has a long way to go in the area of neurological studies before Dr. Breazile's goals can become reality. However, these studies are pointing up the continuing importance of animal research and its possible contribution to better understanding of diseases in animals and man.

## Quinine, Quinidine Studies Point to Harmful Interactions

Cardiac patients who are being simultaneously treated with quinidine and barbiturates may be expected to sleep up to 18 hours according to Dr. Badi M. Boulos, assistant professor of veterinary physiology and pharmacology, who spoke April 15 at the 53rd annual Meeting of the Federation of American Societies for Experimental Biology in Atlantic City, N. J.

Dr. Boulos conducted studies on the interaction of quinidine and quinine with pentobarbital. Quinidine is used in treating those cardiac arrhythmias characterized by abnormal impulse generation and quinine is still used in some countries for treating malaria in addition to treating night cramps and myotonia congenita. These drugs are administered over a prolonged period of time and frequently in combination with other drugs.

Since many cardiac patients may be simultaneously treated with quinidine and barbiturates, it is critical for the

attending physician to be aware of their possible interactions.

"We have noted in mice, rats and goats," said Dr. Boulos, "that the pentobarbital sleeping time is prolonged up to three times by pre-administration of quinine or quinidine. Similar observations have been clinically reported in man with quinidine.

"In other words, when an individual is given pentobarbital sodium in the usual dose, he would be expected to sleep at least 6 hours. But if this individual had received quinine up to 24 hours before the pentobarbital, he would sleep for a much longer period."

Another paper that was presented at the Federation meeting was entitled "X-Irradiation in Adoptive Immunization of Lewis Rats to Experimental Allergic Encephalomyelitis (EAE)" by Drs. Charles W. Purdy, former research associate in veterinary microbiology; and Raymond W. Loan, professor of veterinary microbiology.

# — About the Faculty —

*Dr. Thomas M. Eagle*, associate professor of veterinary medicine and surgery, presented a paper on "Anonymous Fee Survey" April 15-17 for the Southeast Missouri VMA in Jackson, Mo.

\* \* \* \*

*Dr. E. Allen Corley*, professor of veterinary medicine and surgery, participated in a program of the American Animal Hospital Assn. April 7-12 in Washington, D.C. He presented sessions on "Radiography of the Canine Pelvis," and "Acute Abdomen." He also presented a walk-in demonstration on canine radiography as well as a portion of the seminar by the American Board of Veterinary Radiology.

At the same meeting *Dr. Charles E. Short*, assistant professor of veterinary medicine and surgery, also presented a two-hour demonstration and about three seminars on small animal inhalation anesthesia. *Dr. John D. Rhoades*, assistant professor of veterinary medicine and surgery, was also in attendance.

\* \* \* \*

*Dr. Arthur A. Case*, professor of veterinary medicine and surgery, spoke on "Crotalaria, Molds and Mycotoxins in Feed and Feed Products" at the Workshop on Feed Manufacturers Regulatory Division March 18 in Jefferson City.



Dr. Short demonstrates the use of anesthesia to the Student AVMA Auxiliary March 24 in the Veterinary Clinic. His informal presentation sparked numerous questions from the interested audience.

Four faculty members of the Department of Veterinary Medicine and Surgery attended a clinical education symposium April 1 in Manhattan, Kan. Those attending were: *Drs. Mark P. Rines*, professor and chairman; *Harlen Jensen*, research associate; *John D. Rhoades*; and *William A. Wolff*, assistant professor.

\* \* \* \*

*Dr. William F. McCulloch*, director of continuing education for veterinary medicine, presented a paper on "Disease Ecology — Man, Birds and Rodents" at the 29th annual meeting of the Illinois Public Health Assn. April 9-11 in Chicago, Ill.

He was also a consultant to the AVMA Commission on Pharmacy and Veterinary medicine March 18-19 in Chicago.

\* \* \* \*

*Dr. Horst-Dieter Dellmann*, professor of veterinary anatomy, presented a paper on "Ultra Structure of Herring Bodies in the Bovine Neurohypophysis" at a meeting of the American Association of Anatomists April 3 in Boston, Mass. *Mrs. Patricia Owsley Arnold*, a third-year veterinary student, is co-author of the paper. *Dr. Robert C. McClure*, professor and chairman of veterinary anatomy also attended this meeting.

\* \* \* \*

*Dr. Lawrence G. Morehouse*, professor and chairman of veterinary pathology, presented a paper on "Laboratory Diagnosis of Hog Cholera in Missouri" March 17-19 in Des Moines, Iowa.

\* \* \* \*

*Dr. Donald C. Blenden*, associate professor of veterinary microbiology, presented a paper at the 4th Symposium on Veterinary Medical Education March 23-25 in College Station, Texas. His paper was "Training for Specialty Boards in Veterinary Public Health." Others attending the meeting were *Drs. George C. Shelton*, associate dean for academic affairs; *Terrence M. Curtin*, professor and chairman of veterinary physiology and pharmacology; *Mark P. Rines*; *Donald A. Schmidt*, professor of veterinary pathology; *Raymond W. Loan*, professor of veterinary microbiology; *Billy E. Hooper*, associate professor of veterinary pathology; and *Keith L. Kraner*, director of laboratory animal medicine.

\* \* \* \*

*Dr. Billy E. Hooper*, spoke on "Pathogenesis of Diarrheal Diseases" April 4 at a meeting of the Greater St. Louis VMA.

---

## School of Veterinary Medicine FACULTY NEWSLETTER

104 Connaway Hall  
University of Missouri - Columbia  
Columbia, Missouri 65201



BONNARD MOSELEY  
VET CONT EDUC  
206 VET CLINIC

1-140

FacultyNewsSpecSheet.txt

MU Libraries  
University of Missouri --Columbia

Digitalization Information Page

Local identifier Faculty News Spec Sheet

Capture information

Date captured	06/2015
Scanner manufacturer	Zeutschel
Scanner model	OS 15000
Scanning system software	Omni scan v. 12.4 SR4 (1947) 64-bit
Optical resolution	600 dpi
Color settings	covers in 24 bit color; text in 8 bit grayscale
File types	tiff

Source information

Format	Newsletter
Content type	Text with images
Source ID	
Notes	

Derivatives - Access copy

Compression	Tiff: compression: LZW
Editing software	Adobe Photoshop CS5
Editing characteristics	
Resolution	600 dpi
Color	color and grayscale
File types	pdf
Notes	Pages cropped and brightened