



# VETERINARY MEDICAL REVIEW

School of Veterinary Medicine  
University of Missouri-Columbia

May 1, 1972 No. 50

## Plans Announced For Graduation

Activities planned for graduation are as follows: The Honors Banquet sponsored by the UpJohn Company will be held at 6:30 p.m. Monday, May 15 at the Ramada Inn. Awards will be presented to outstanding students in all four classes.

Precommencement for the School of Veterinary Medicine is scheduled for 10 a.m. on Tuesday, May 16 at the Livestock Pavilion and the University Commencement Exercises will be held at 3 p.m. in the Memorial Stadium.



Two young visitors at Career Day are engrossed in watching a turtle that is being monitored for vital signs. The square hole in its shell exposes the internal organs to which the electrodes are attached. See story on page 2.

## Dr. Carlson to Speak At Precommencement

Dr. William Dwight Carlson, president of the University of Wyoming, will be the speaker at the Precommencement Exercises of the School of Veterinary Medicine, at 10 a.m., Tuesday, May 16.

President Carlson grew up in Fort Collins, Colo. He earned the doctor of veterinary medicine degree in 1952 and the master of science degree in 1956 from Colorado State University. He received a Ph.D. degree in radiology from the University of Colorado Medical Center in 1958.

After earning his DVM degree, he was in practice for a year in Littleton and then joined the faculty of Colorado State University as assistant professor of veterinary medicine in 1953. He held an American Veterinary Medical Association research fellowship while pursuing advanced studies in radiology and was named assistant professor of radiology and headed the radiology section at CSU in 1957.

In 1962 he was promoted to full professor and assumed additional duties as director of the CSU-Public Health Service Collaborative Radiological Health Laboratory which came to CSU through his efforts.

At the time of his appointment to the University of Wyoming presidency in 1968, Dr. Carlson was professor and chairman, CSU department of radiology and radiation biology; director and president of the board, CSU Research Foundation.

He is author of the textbook, *Veterinary Radiology* and continues his affiliation with such professional organizations as the American Veterinary



Medical Association, North American Radiological Society, American Veterinary Radiology Society (charter member, national president 1965), Radiation Research Society, American Association for the Advancement of Science (fellow), American Institute of Biological Science, Sigma Xi, and Phi Kappa Phi.

He presently serves on the National Advisory Council on Health Research Facilities, National Institutes of Health, as well as in many other national capacities.

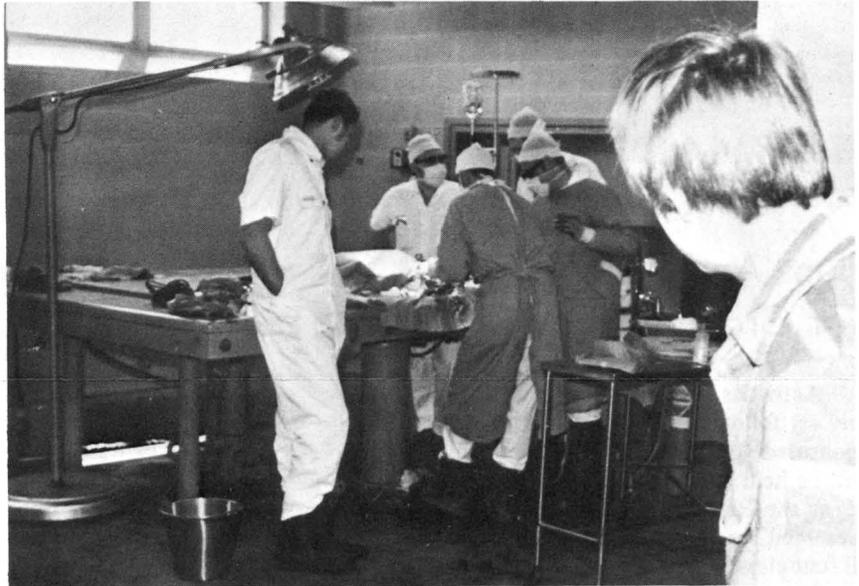
In 1968 he was presented his profession's top national honor, the "Veterinarian of the Year" award for the year 1967. Previously he had earned the Colorado State Jaycee "Outstanding Young Man of the Year" (1960), and CSU's "Top Prof" award (1961).

# 285 Visitors Attend Annual Career Day

For 285 high school students, Career Day at the UMC School of Veterinary Medicine was an opportunity to find out what veterinary medicine is all about.

For the ninth year the event was sponsored by the Missouri Veterinary Medical Association and the Student Chapter of the MVMA. The School cooperates by organizing the program and working with the students to set up displays and tours.

Students conducted tours throughout the buildings and explained displays set up in each of the basic science areas and the Clinic. Visitors saw a turtle being monitored through a square hole cut on the underside of his shell with electrodes attached to the heart in the physiology display. Also being monitored were a dog and a snake. In Anatomy, horses' legs were used to show the structure of the leg and how it works. Microbiology students explained the various types of worms and other parasites which are preserved in jars. Diseased organs taken from animals were displayed in the pathology dis-



*Visitors watched surgery in the large animal surgery area.*

play. The visitors saw actual surgery being performed in the Clinic as well as patients in the large animal clinic and activities of the clinical pathology laboratory, radiology, the treatment areas and the pharmacy.

The visitors were divided into two groups on arrival and one group began a tour while the other met in the Clinic Auditorium for a program which included a welcome by Dean B.W. Kingrey and introductions of the MVMA officers.

Students told of various facets of the profession: "Preparation for Veterinary School," Kraig Stemme; "Professional School," Cecil Moore; "Veterinarians in Public Service," Leo Sysel; "Practice Specialties," Leon Holt; "Large Animal Practice," Wayne Miller, and "Small Animal Practice," Diane Brune.

Dean G. C. Shelton gave the visitors information on admissions and application procedures.

A movie, "The Gentle Doctor," was shown which tells the story of the history and development of the veterinary medical profession.



*Two sophomore students explain the procedure for monitoring a dog's vital signs under anesthesia in the physiology display.*

## Veterinarians Spend Time on Public Health

A veterinarian is as much concerned with human health as he is with the animals he treats. Time-function studies conducted at the University of Missouri-Columbia School of Veterinary Medicine indicate that the small animal practitioner and usually the large animal specialist devotes one-fourth of his daily working time to public health activities.

The small-animal veterinary activities related to human health involve diseases transmitted between animals and man, called zoonoses. Zoonotic ailments include salmonellosis, producing a typhoid-like sickness in man; leptospirosis, which is the source of several types of human fevers; and ringworm. Veterinarians give immunizations for zoonotic diseases and counsel clients on diseases with human health implications, such as rabies. The large-animal veterinarian affects human health through herd vaccination and counseling food and fiber producers. His work directly relates to hygienic meat and dairy products for human consumption.

These time-function studies are representative of all the theses submitted for the Master of Science degree through the departments of Veterinary Microbiology and Community Health and Medical Practice. Topics are directed to community health. Many graduate student theses assimilate data on zoonotic diseases, compiled by the Missouri Division of Public Health, indicate characteristics in the transmission of diseases from animal to man, and suggest control measures.

The community health topics have also encompassed recreation and sports in the State. Because of increased leisure time and growing interest in outdoor activities by a majority of Americans, health and safety problems extend to an individual's leisure hours. One thesis determined that in a five year period, 280 hunting accidents in Missouri involved firearms. Shotguns accounted for 50 per cent of the accidents and resulted in 44 deaths. The study of factors involved in these accidents has resulted in information currently used in community hunter-safety training (con't on page 4)

## Practitioners Attend Workshop

Two workshops on Improving the Conception Rate in the Mare were held at the Veterinary Hospital-Clinic April 8-9 and 22-23 by the Continuing Education and Extension Division of the UMC School of Veterinary Medicine.

Enrollment was limited to 12 veterinarians at each workshop. Topics included the sexual cycle, infertility, the estrous cycle, pregnancy, infection of the genital tract, causes of abortion, reproductive health plans and reproductive problems of the single mare and brood mare.

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

Workshop participants at the April 8-9 sessions were Dr. Al Doughty, Pinckneyville, Ill.; Dr. M. W. Gilmore,

Springfield; Dr. John A. Hennessy, Poplar Bluff; Dr. Tommy D. Houghton, South Miami, Fla.; Dr. Gail G. Kroenke, Harrisonville; Dr. Glen L. Krumme, Plattsburg; Dr. James C. McCrea, Platte City; Dr. Ross K. McPhail, Republic; Dr. Larry F. Moore, Drexel; Dr. James Montgomery, Orion, Ill.; Dr. Allen G. Robinson, Palmyra; and Dr. Glen Schwab, Stilwell, Kan.

Participants in the April 22-23 workshop were Dr. Roy L. Dooley, Cape Girardeau; Dr. E. D. Garrett, Wentzville; Dr. Peter E. Gory, Carthage; Dr. J. C. Kinkead, Windsor; Dr. R. D. Pappan, High Ridge; Dr. Frank A. Serra, Overland Park, Kan.; Dr. W. R. Sheets, Farmington; Dr. Udell J. Simmers, Neosho; Dr. I. J. Twiehaus, Kansas City; Dr. Charles J. Vosbrink, Salinas, Calif.; Dr. Ben N. Winchester, Hannibal; and Dr. Jerry Rainey, Cameron.



## Chris Chooses Unique Block

Miss Christopher "Chris" Smith, a junior at the UMC School of Veterinary Medicine, assists two senior veterinary students and Dr. Wade Brinker (right), head of the department of orthopedic surgery, at the Michigan State University College of Veterinary Medicine. Miss Smith recently completed an optional block of the UMC Veterinary School's segmented curriculum by enrolling as a special student

at Michigan State for six hours of credit in small-animal surgery. She is the first veterinary student in the nation to schedule course work at another veterinary school during a free block. During her two-month enrollment at Michigan State, she rotated through the small-animal clinic stations with senior students and attended an orthopedic course taught by Dr. Brinker.

## —About the Faculty—

*Dr. C.J. Bierschwal*, professor of veterinary medicine and surgery, attended the last two weeks of a six-week course at the U.S. Army Medical Corps Component Staff School at Fort Sam Houston in San Antonio, Tex. His attendance Feb. 27-Mar. 11 in the course, the purpose of which was to prepare Army veterinarians for staff positions in the Army, enabled him to become eligible for promotion from lieutenant colonel to full colonel.

*Dr. Bierschwal* also presented papers on "Reproduction in the Mare" to an equine adult education class at Meramec Junior College Mar. 14 in St. Louis and at the national meeting of the Paint Horse Brood Association Mar. 16 in Kansas City.

*Dr. H.-D. Dellmann*, professor of veterinary anatomy, presented a paper on "Ultrastructure of the Rostral Zone of the Pars Intermedia of the Adenohypophysis in the Mouse and Rat" at the American Association of Anatomists meeting Apr. 1-8 in Dallas, Tex. *Dr. G. R. Kirk*, assistant professor of veterinary anatomy, also presented a paper at the meeting. His was entitled "Maturation of the Corticospinal Tract in the Dog."

*Dr. J.B. Mulder*, assistant professor of veterinary medicine and surgery and director of lab animal resources, presented a paper on "Inhalation Anesthesia of Small Laboratory Animals" at the Tri-Branch American Association for Laboratory Animal Science meeting Apr. 7 in Iowa City.

*Dr. Norman Ackerman* and *Dr. W.E. Wingfield*, residents in veterinary medicine and surgery, gave a presentation on "Canine Hip Dysplasia" to the Doberman Pinscher Club of Missouri Mar. 23 in St. Louis.

*Dr. H.E. Jensen*, associate professor of veterinary medicine and surgery, presented his exhibit of stereoscopic slides of "Clinical Pathology of the Eye of Domestic Animals" at the Pan-American Congress of Ophthalmology Mar. 31-Apr. 8 in Houston, Tex.

*Dr. K.H. Niemeyer*, associate professor of veterinary medicine and surgery, presented a seminar on orthopedic surgery Apr. 8-10 in Pascagoula, Miss.

*Dr. A.R. Allbritton*, research associate in veterinary microbiology, presented a paper on "Comparison of In Vitro Cytotoxicity and Passive Transfer in Experimental Allergic Encephalomyelitis" at a meeting of the Federation of American Societies of Experimental Biology Apr. 9-12 in Atlantic City, N.J. The paper was coauthored by *Dr. R.W. Loan*.

*Dr. H.E. Jensen* and *Dr. R.E. Hofer*, associate professors of veterinary medicine and surgery, presented an exhibit of "Stereoscopic Slides of Soft Tissue Surgery" at the American Animal Hospital Association meeting Apr. 9-14 in Las Vegas, Nev. *Dr. Jensen* also presented a seminar on "Clinical Ophthalmology." *Dr. G.G. Doering*, associate professor of veterinary medicine and surgery, gave two 3-hour seminar courses on "Introductory Small Animal Dermatology."

## Public Health Con't.

ing clinics for Missouri teenagers, sponsored by the Columbia, Mo., Daily Tribune under the promotion of the National Shooting Sports Foundation.

Because man is decisively influenced by animals through food chains and other complementary associations, most of the research at the Veterinary School is ultimately concerned with public health. Man's relationship with animals is described in terms of "host," "parasite," and "environment." Expanding human and animal populations create environmental health problems through complex relationships which constantly shift the role of host-parasite between the higher and lower species. The Veterinary School is working to benefit both, no matter which position man or animal occupies in the environment of each.

School of Veterinary Medicine

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