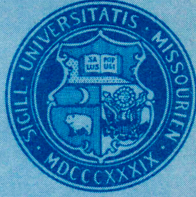


SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA

NOVEMBER - DECEMBER 1969 NO. 26



Three Faculty Members Assume Dept. Chairmanships

Three faculty members have stepped into department chairman slots this fall at the UMC School of Veterinary Medicine.

The new chairman of the Department of Veterinary Anatomy is Dr. James E. Breazile. An alumnus of the University of Missouri, Dr. Breazile received his B.S. and D.V.M. degrees in 1958 from UMC and his Ph.D. in 1963 from the University of Minnesota. He was formerly on the faculty at Oklahoma State University where he was selected as the "Blue Key Teacher of the Year" by the College of Veterinary Medicine. He became Mayor during his veterinary practice in Pilot Grove, Mo. from 1958-60. Dr. Breazile joined the Missouri faculty in 1967.

He is a member of the American Veterinary Medical Association, the American Association of Veterinary Anatomists, the American Association of Anatomists, Alpha Psi, Gamma Sigma Delta and Phi Zeta.

Dr. Billy E. Hooper, associate professor of veterinary pathology, has assumed the position as chairman of the Department of Veterinary Pathology. Another Missouri alumnus, Dr. Hooper received his B.S. and D.V.M. degrees in 1961 from UMC and completed his M.S. degree in 1963 and his Ph.D. degree in 1965 at Purdue University.

He was on the faculty of Purdue University until he joined UMC in 1968. Dr. Hooper's memberships include the American Veterinary Medical Association, the American College of Veterinary Pathology, the American Society of Veterinary Clinical Pathology, the International Academy of Pathology, Phi Eta Sigma, Gamma Sigma Delta, Phi Zeta and Sigma Xi. He has also been active in the Medical Explorer Post 77 of the Boy Scouts of America.



New Department Chairmen are Drs. Hooper, Breazile and Loan

Professor of veterinary microbiology, Dr. Raymond Loan has taken over the chairmanship of the Department of Veterinary Microbiology.

Dr. Loan received his B.S. in 1952 and D.V.M. in 1958 from Washington State University and his M.S. in 1960 and his Ph.D. in 1961 from Purdue University.

He was on the Purdue faculty until 1961 and has been affiliated with UMC since that time. He was given the Distinguished Teacher Award in 1965 by the UMC School of Veterinary Medicine.

His professional memberships include the American Veterinary Medical Association, the Missouri Veterinary Medical Association, the Central Missouri Veterinary Medical Association, Sigma Xi, Alpha Psi, Phi Kappa Phi, Alpha Zeta, Phi Zeta and Conference of Research Workers in Animal Diseases. He is a diplomate of the American College of Veterinary Microbiologists.

University Establishes Archives

A new University of Missouri post has been created to protect the institution legally by preservation of official documents. Mr. Ralph Havener, a professional archivist, collects records of faculty, students and alumni pertaining to University business. Donors of records may place restrictions on their use as they wish.

If you have any records or know of anyone with records that they might wish to have preserved in the official University archives, please contact Mr. Havener at Lewis Hall, Columbia.

We now have copies of Dean Emeritus Groth's History of the School of Veterinary Medicine available. The publication covers the ups and downs of the School since the birth of the University in 1839 until the present. Dean Groth spent over two years compiling the necessary information and pictures.

If you are interested in a copy for your library, contact Jerry Long, editor of the Missouri Veterinarian, Office of the Dean, 104 Connaway Hall, Columbia, Mo. 65201.

45th Conference Draws 250 Veterinarians

Sessions ranging from orthopedic compression plating techniques in small and large animals to practice tips on disposable equipment were presented during the 45th Annual Conference for Veterinarians held November 3-4.

Following a welcome by Dean B. W. Kingrey, television demonstrations were held at the Veterinary Hospital-Clinic. Dr. K. L. Jeffery, a practitioner from Kansas City, presented practice tips on surgery and fluid therapy while Dr. W. W. Doughty, practitioner from Pinkneyville, Ill., demonstrated a method of treating the equine for internal parasites that he had perfected.

The conference was divided into discussion groups with the following speakers and topics: Dr. D. G. Low, professor and head of University Veterinary Hospital at the University of Minnesota College of Veterinary Medicine, St. Paul, "Less Understood Diseases Affecting the Canine Kidney," and "Renal Function Tests and Treatment of Uremia in the Canine."

Dr. E. L. Drake, extension veterinarian at the University of Nevada, Reno, and president of the American Association of Extension Veterinarians, presented "Feedlot Health Management," and "Immunization Programs for the Feedlot Industry."

"Practice Tips" and "Equine Medicine—Sarcoid Therapy" were topics covered by Dr. W. D. Roberts, practitioner from Wichita Falls, Tex. He discussed several new chemical solutions, treatments and drugs and included detailed cost breakdowns per case and treatment.

Dr. K. W. Smith, professor and head of the Small Animal Clinic at the Colorado State University College of Veterinary Medicine and Biomedical Sciences, Fort Collins, spoke on "Corrective Ear Surgery in the Canine" and "Eosinophilic Diseases of Small Animals." In the last topic, he cited specific symptoms related in adrenocortical insufficiencies, allergies,

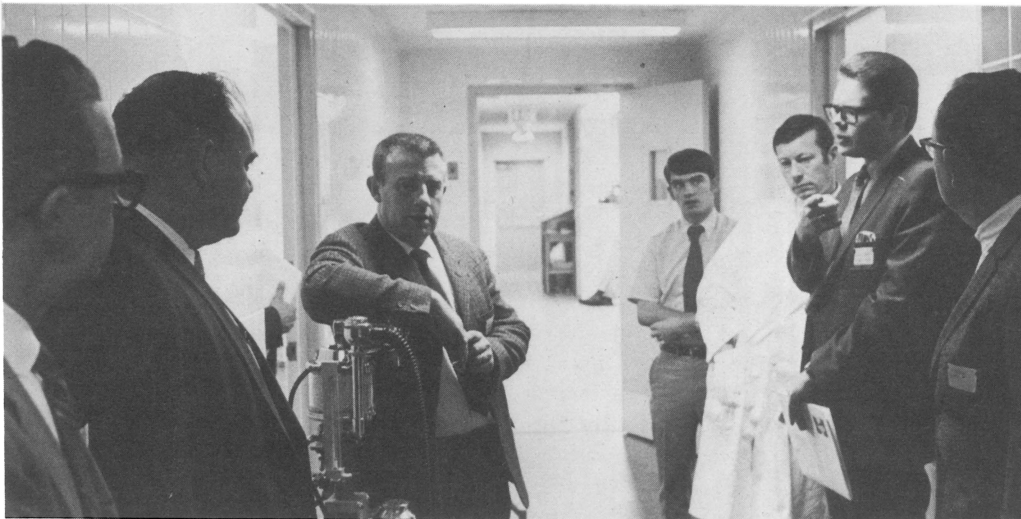
and parasites accompanied by eosinophilia. Dr. Smith mentioned several breeds of dogs that are susceptible to symptoms related to eosinophilia and methods of treating those symptoms.

Dr. M. L. Morris, Jr., of Mark L. Morris Associates, Topeka, Kan., spoke on "Nutritional Aspects of the Clinical Management of Renal and Hepatic Diseases," while Dr. W. C. Burnett with the Food and Drug Administration, Kansas City, presented "New FDA Restrictions: Impact on Changing Veterinary Medical Practice."

Dr. J. P. Hickcox, assistant professor of medicine and surgery, spoke on "Compression Plating Techniques in Small and Large Animals" and "Common Fracture Problems in Small Animals."

Dr. A. W. Hahn, professor of veterinary medicine and surgery and investigator for the Space Sciences Research Center spoke on "Cardiac Diagnosis from Stethoscope to Catherization in the Canine." Dr. C. J. Bierschwal, professor of veterinary medicine and surgery, who recently returned from sabbatical leave in the Netherlands, discussed "Artificial Insemination in Swine" and "Veterinary Obstetrics and Gynecology in Holland." "Relationship of Physical Facilities to Beef Feedlot Health in Missouri" was presented by Dr. J. T. McGinity, associate professor of veterinary medicine and surgery.

Guest speaker at the annual banquet held November 3 was Dr. J. D. Wallach, assistant director of the Chicago Zoological Society, Brookfield, Ill. His topic was "Doctor of an Ark" with illustrated slides of his experiences as Veterinary Research Officer, Natal Parks Board, Republic of South Africa. He cited several problems that arise when trying to adjust an animal from a wild state to zoo life. About 250 veterinarians from Missouri and the Midwest attended the Conference.



Shown in an informal discussion of up-to-date anesthesiology equipment are: Dr. E. E. Burgess, Dr. B. Z. Pfander, Dr. C. E. Short, Mr. Jerry Espey, Dr. R. E. Hoffer, Dr. Hal Tennant and Dr. LeRoy Atkinson.

AVMA Hosts AMA

Medical Groups See Pollution as Growing Problem

There has been growing concern in many quarters about the problem of pollution in the United States. In November, for the first time, branches of the two major American medical groups met and formulated a statement on this topic.

The American Veterinary Medical Association Council on Public Health and Regulatory Veterinary Medicine hosted a meeting with the American Medical Association Council on Rural Health. Dr. Fred W. Clayton, assistant professor of veterinary microbiology and community health and medical practice at the University of Missouri - Columbia and chairman of the AVMAC, chaired the joint meeting.

The gist of that meeting is summed up in the following statement: Air, water and soil pollution produce health hazards and implications to mankind, the extent of which appear to be of significant proportion. Second to our concern for the human race is the threat facing the ecology of animal and plant life in productive agricultural areas and wilderness retreats. Not only is there fear for health, but a regret that the quality of life engendered through clean air, water, plant and animal life is threatened.

We soberly recognize the needs of the expanding world's population for maximum production of food, fiber and manufactured goods. We recognize the necessity for control of agricultural pests; the use of materials to ensure maximum crop production; the need for disposal of industrial wastes and the necessity for increased power resources. We are convinced that with adequate research we can allow our technology to work for us without the pollution by-products.

It is recommended that the AVMA, through its Council on Public Health and Regulatory Veterinary Medicine, and the AMA through its Councils on Environmental and Public Health and Rural Health, continue as advocates for pollution control; that these organizations alert and involve their state organizations in the above state concerns, and that all influence be exerted at federal levels to promote effective and sound programs for research and necessary controls.

In conjunction with this statement the organizations discussed some major areas involving air pollution. Some of these were:

Two students were involved in serious accidents during the late fall. Harold Haskins, fourth-year student was accidentally shot during a hunting trip over the Thanksgiving holidays and is still being treated by specialists at the Medical Center for damage to his eyesight. James McMinn, first-year student, was hit by a car during a snowball fight early in December. He suffered fractures, dislocations and lacerations that will keep him in a cast for some time.

Contamination sources were identified in major categories such as factories, municipal dumps, incinerators and cars. Pesticides were seen as a threat to man and a need was established to determine their effects. The veterinary profession was seen as having a responsibility to determine the chronic effects of pesticides on animal life and on the consumer.

Along with an increased public awareness of pollution, there is a need for scientific research to establish tolerances and to set rules for the safe use of pesticides. The interaction of pesticides and drugs was seen as a problem warranting more scientific investigation.

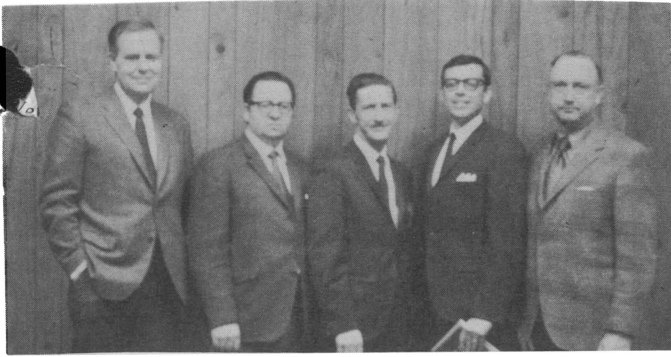
Finally it was seen as essential to disseminate information about such fundamental factors as the quality of air, water and food, the disposal of wastes, the sources of toxic hazards and contaminations, so that citizens may be fully informed about environmental health problems and can provide intelligent decisions in solving the problems.

Dr. David Coffin Speaks on Pollution

"Air pollution used to be a local problem. Now because there are so many people in the world, it may be a world-wide problem." These are the words of Dr. David Coffin, associate professor of pathology at the University of Cincinnati. Early in December he discussed "Health Effects of Air Pollution" in a seminar sponsored by the School of Veterinary Medicine and the Environmental Health Center.

Dr. Coffin singled out ozone as the most reactive gas and the biggest culprit in increased susceptibility to respiratory diseases. The gas seems to impair the defensive mechanisms in the lungs. Normally the lungs appear to kill bacteria on contact, but animals exposed to ozone, then bacteria are more susceptible to infection. Three things seem to happen in animals exposed to ozone: Red blood cells increase - indicating an inflammatory agent's presence. Macrophages, defensive, bacteria-killing cells, decrease and lysosomes, little sacs of enzymes in the lungs which counteract bacteria, decrease.

Besides the automobile, a major source of air pollution is caused by materials released by chemical plants. The pollutants from coal and chemical plants appear to be a cause of lung cancer rather than car exhaust. For example, Los Angeles, with its high air pollution problem, caused by the auto, has a low cancer rate compared to Cincinnati where there are many chemical plants. Man is not the only living thing suffering from air pollution, Christmas trees are growing less and less. "The plant is especially vulnerable to pollutants—it has to stand there and take them," Dr. Coffin concluded.



Four Canadians Visit School

Four Canadian veterinarians recently visited the School on an inspection tour from the University of Montreal.

Dr. Jean Flipo, associate professor and head of the small animal clinic; Dr. Andre Lagace, associate professor and head of the department of pathology and bacteriology; Dr. Louis Philippe Phaneuf, associate professor of veterinary physiology and Dr. Jean Pierard, associate professor of veterinary anatomy and secretary of the faculty, spent Dec. 10 here viewing the facilities and meeting the faculty.

Special areas of interest were anatomy, physiology, pathology, bacteriology, small animal clinics and the experimental animal quarters.

Dr. Menges Dies

Dr. Robert William Menges, assistant professor of veterinary microbiology and assistant professor of community health and medical practices, died at his home December 7. He is survived by his wife, Gladys; a daughter Linda and a son, Richard.

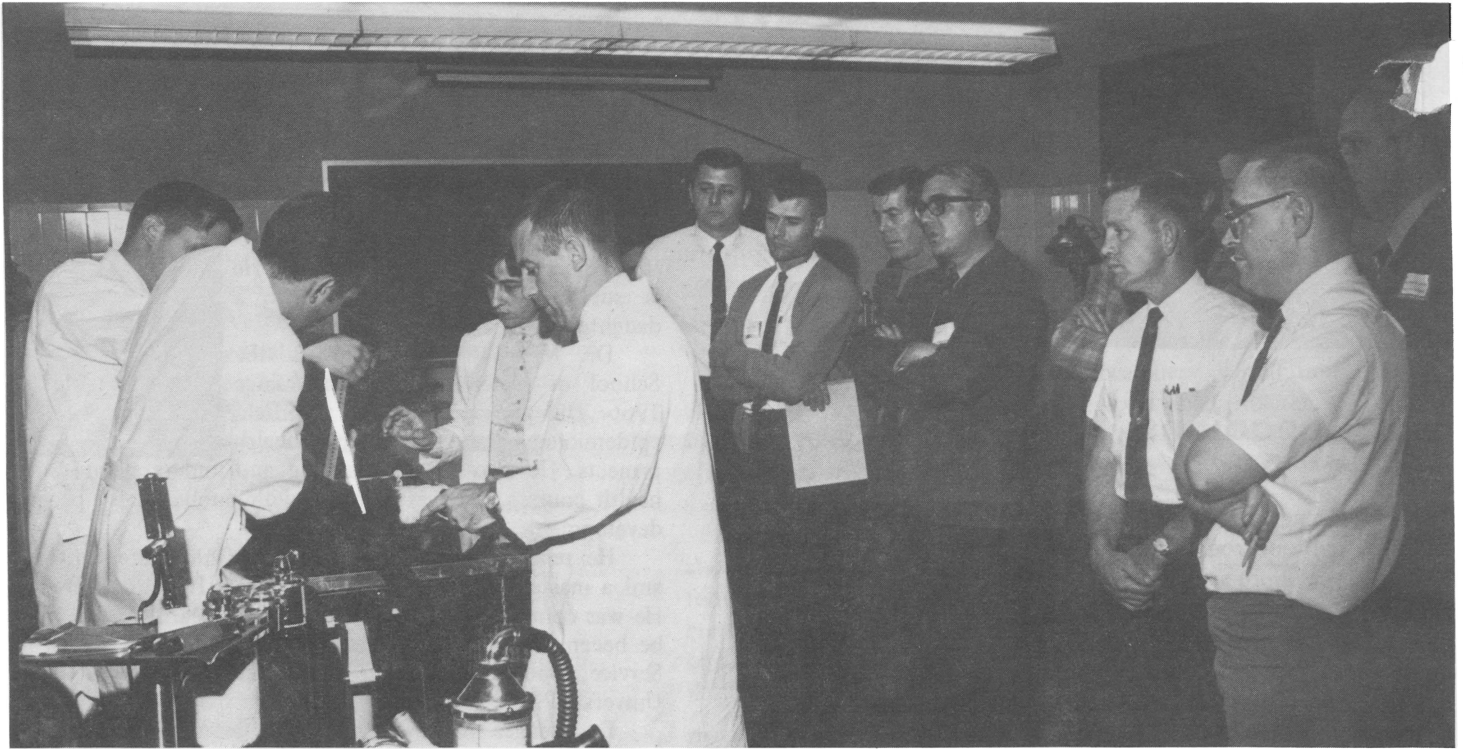
Dr. Menges had been with the School of Veterinary Medicine since 1966. His principal interest was field epidemiology and environmental health projects. He also taught graduate and undergraduate public health courses and was involved with public health program development.

He received his D.V.M. degree at Ohio State University and a master's degree in public health at Harvard University. He was commissioned in the U. S. Public Health Service. Later he became veterinary medical director for the Public Health Service, but left in 1966 for a faculty position at the University.

Dr. Menges held memberships in the Missouri Veterinary Medical Assn., the American Veterinary Medical Assn., the American Public Health Assn. and the Conference of Public Health Veterinarians.



Students started off the holiday season with the annual MVMA student chapter dance, held this year at the American Legion Hall. Adding to the affair's light-heartedness were the traditional skits noting outstanding characteristics in faculty members and students.



Assisted by fourth-year students, Bill Greenwald, Fred Bendick and Miss Joyce Murphy, Dr. Short demonstrates the use of inhalation anesthesia during a recent workshop.

Dr. Short Conducts Anesthesiology Workshop

“How much anesthetic do you give an animal in shock?” and “What combination of medications do you administer to counteract cardiovascular or respiratory complications?” were just two of the many questions asked Dr. Charles E. Short, chief of veterinary anesthesiology, during the Small Animal Inhalation Anesthesiology Workshop, December 14.

Held in the Veterinary Hospital-Clinic, the workshop was sponsored by the University of Missouri - Columbia School of Veterinary Medicine and the University Extension Division. Enrollment was limited to 12 practicing veterinarians.

Since inhalation anesthesiology for animals is a relatively new area, emphasis was placed on the fundamentals and advances in the field. According to Dr. Short, inhalation anesthesia is safer and more controllable than injection types for you can change the level of anesthetic during an operation.

During the afternoon session, the practitioners were instructed in applied techniques for the management of small animal anesthetics. Fourth-year veterinary students, Fred W. Bendick, William J. Greenwald and Miss Joyce Murphy assisted Dr. Short with the demonstrations and later helped the practitioners with laboratory administration of anesthesia. Special instruction was given in the areas of halothane and methoxyflurane anesthesia. They are relatively new concepts

in anesthesia for they are non-explosive and non-combustible agents.

Different types of drugs were discussed in connection with anesthetics such as the use of atropine, epinephrine and other such agents to control cardiovascular difficulties during surgery. Problems that arise during surgery such as prolonged surgery or loss of body heat were discussed. Postoperative care was also covered.

Dr. Short, who is one of a very few specialists in veterinary anesthesiology, stressed the need to know the past history of an animal before attempting to use anesthesia or surgery on it. “There is a relationship between organophosphates, pesticides and insecticides to anesthesia.” “Sometimes there is an adverse reaction between the anesthetic and dips, sprays or flea collars.” “You must know the history, so you can select a safe agent.”

Those attending were: Drs. Charles N. Leezy, Cuba; Ronald G. Wade, St. Joseph; Lester J. Reschly, Columbia; Gentry C. Drake, Asheville, N.C.; William D. Clark, St. Louis; George Bilyea, Overland Park; Leslie Williams, Kansas City; Douglas L. Hoback, Kansas City; Charles W. Monsees, Sedalia; Wayne D. Bradley, Kansas City, George T. Barrows, Kansas City and John B. Mulder, Columbia.

Dr. Harlen E. Jensen and *Donald Howard*, research associates in veterinary medicine and surgery, attended the Academy of Ophthalmology meeting Oct. 10-15 in Chicago.

Dr. Jensen also presented papers on ophthalmology at two conferences during November. They were made at the Mississippi Valley Veterinary Medical Assn. conference Nov. 5-7 and the Metropolitan New Jersey V.M.A. meeting Nov. 19-20.

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Dr. Donald C. Blenden, associate professor of veterinary microbiology, participated in the American Public Health Assn. conference on Educative Methods in Meat Hygiene Nov. 9-14 in Philadelphia, Pa.

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Dr. Arthur A. Case, professor of veterinary medicine and surgery, presented a paper on "Maintaining Herd Health and Preventing Breeding Difficulties" at the Cooperative Extension Services' In Service Training Conference Nov. 12-14 in Trenton, Mo. During October he participated in the U. S. Animal Health Conference and American Assn. of Laboratory Diagnosticians meeting in Milwaukee.

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Dr. Edward R. Ames, assistant professor of veterinary microbiology, presented a paper on "Internal Parasitisms of Cattle - The Epidemiology, Pathology and Ecology of Infections" Oct. 21-22 in Tifton, Ga.

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Dr. Lawrence G. Morehouse, professor of veterinary pathology and director of the Veterinary Medical Diagnostic Laboratory, and *Robert F. Solorzano*, associate professor of veterinary microbiology, attended meetings of the American Assn. of Veterinary Medical Laboratory Diagnosticians and the U. S. Animal Health Assn. Oct. 12-18 in Milwaukee. *Dr. Morehouse* served on a committee for Standardization of Techniques for the Diagnosis of Hog Cholera.

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Dr. Breazile also presented two papers at the 2nd annual meeting of the American Assn. of Bovine Practitioners Nov. 24-25 in Chicago, Ill. The titles were "Normal and Abnormal Neuromuscular Physiology with Reference to Certain Nervous Disorders of Cattle" and "Congenital Nervous Disorders of Cattle."

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Dr. Thomas M. Eagle, associate professor of veterinary medicine and surgery, presented a paper on "Organized Veterinary Medicine's Interest in Their Schools" Nov. 20 at the Heart of America Kennel Club in Kansas City.

Drs. LeRoy D. Olson, associate professor of veterinary pathology, and *Emmett L. McCune*, associate professor of veterinary microbiology, attended the Missouri Poultry Industry convention Oct. 23-24 in Jefferson City.

Dr. Olson also presented a paper on "Cross-Protection Studies with *Pasteurella multocida* in Turkeys" at the Missouri Branch of the American Society for Microbiology Nov. 22 in St. Louis.

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Dr. Joseph E. Wagner, associate professor of veterinary pathology, attended the annual meeting of the American Assn. for Laboratory Animal Science Oct. 13-17 in Dallas, Texas.

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Dr. Charles E. Short, assistant professor of veterinary medicine and surgery, presented a program on Inhalation Anesthesia and Anesthetic Complications for the Houston Veterinary Medical Assn. Nov. 6-7 in Houston, Texas.

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Dr. Charles E. Martin, associate professor of veterinary medicine and surgery, spoke to the Carroll County Pork Producers Assn. regarding swine diseases and his recent trip to England Oct. 1 in Carrollton, Mo.

School of Veterinary Medicine
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