VETERINARY MEDICAL REVIEW

School of Veterinary Medicine
University of Missouri-Columbia

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240 Attend Conference

Two hundred and fourty veterinarians from Missouri and other states registered for a record attendance at the 47th Annual Conference on Oct. 31—Nov. 1. An autotutorial session was held on Sunday and simultaneous small group sessions were held the rest of the day and on Monday. In addition, a session was added with panel discussions on two topics of current interest: "Biological and Pesticide Residues in Food Animals," and "Trends in Humane Animal Care Legislation."

Shown above, from left, are members of the latter panel: Dr. H. A. Waters, Animal Health Division, USDA—Missouri; Dr. K. L. Kraner, director of University Animal Resources; William J. Hoff, director of St. Louis Zoological Park; Bill T. Crawford, superintendent of the Game Research Section, Missouri Department of Conservation; and Dr. C. O. Finch, topic speaker and senior staff officer, Animal Health Division, USDA.

School Appoints Four to Faculty

Three research associates and one associate professor have been named to the School of Veterinary Medicine's departments of microbiology and physiology and pharmacology.

Dr. Hans K. Aldinger has been appointed an associate professor of microbiology. He received a diploma of veterinary medicine and a doctorate of veterinary medicine from the University of Munich, West Germany, and a Ph.D. from New York State Veterinary College, Cornell University.

Most recently Dr. Aldinger was a research associate in the department of microbiology at Albert Einstein Medical Center, Philadelphia, where he conducted

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Four Seniors Listed In Who's Who

Four students in the School of Veterinary Medicine at the University of Missouri-Columbia have been chosen for Who's Who Among Students in American Universities and Colleges.

Cecil Paul Moore is a senior with a 3.87 grade point average. He is from Kirksville and will receive a B.S. in zoology this year from Northeast Missouri State College.

He is president of the student chapter of the American Veterinary Medical Association and has served as a class officer. He is a member of Phi Zeta, veterinary medicine honorary fraternity, and Gamma Sigma Delta, honor society of agriculture. He has also held a Pfizer scholarship and a Health Professions scholarship.

Larry Congdon has a B.S. in zoology from Iowa Wesleyan and an M.S. in parasitology from UMC. He will complete his D.V.M. in June and has a 3.87 grade point average.

He is a member of the American Veterinary Medical Association, Phi Zeta and Gamma Sigma Delta. He also has a Health Professions scholarship.

Miss Joanne Stefanatos is a graduate of the University of Nevada with a B.S. in zoology. She has served as editor-in-chief and was one of the originators of the "Anastomosis," the School of Veterinary Medicine yearbook. She received an award last spring for her work on it. She is a member of Tri-Penta honorary and was a University Scholar in 1968-69. She has maintained a 3.44 grade point average and has a Health Professions scholarship.

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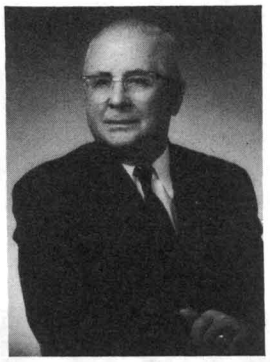
Dr. Weinman Dies at Age 81

Dr. Joseph Weinman died Nov. 7 in Columbia at age 81. He was a professor emeritus at the School of Veterinary Medicine.

Dr. Weinman graduated from Kansas City School of Veterinary Medicine in 1913. He practiced for 22 years in Lincoln, Neb., before moving to Columbia in 1946. He retired in 1960.

Dr. Weinman was a member of the American Veterinary Medical Association, Missouri and Nebraska Veterinary Medical Associations, and was a Mason and Shriner.



Survivors include his wife; a daughter, Mrs. Robert White, Lincoln, Neb.; and a son, Dr. Donald E. Weinman, who is now living in Nigeria. He was also on the School of Veterinary Medicine staff for several years.

Memorial contributions may be made to the Veterinary Medical Memorial Student Loan Fund. Interested persons may send contributions for the above fund to the Dean's Office, 104 Connaway Hall.

Dr. Schnurrenberger Gives Zoonoses Talk

The theory that veterinarians who are accident-prone might also be zoonoses-prone was the subject of a talk by Dr. Paul R. Schnurrenberger, Illinois public health veterinarian, at the UMC Medical Center recently.

In his talk, "The Zoonoses-Prone Veterinarian," he discussed a three-year study of veterinarians in Illinois. The public health study received almost 100 per cent cooperation from veterinarians and consisted of yearly questionnaires asking specific questions about personal history of disease and accidents. The questionnaires were administered by the veterinarians' wives.

Questions, for example, asked about such zoonoses (diseases transmitted from animals to man) as psittacosis, a disease transmitted from birds to man. Investigators also included in their definition of zoonoses, animal bites and rabies vaccinations because these were animal related. Questions also covered such accidents as fractures, automobile accidents, and occupational injuries.

The researchers were attempting to determine if an individual who has had an accident is more likely to experience a zoonosis than is an individual who has not had an accident, Dr. Schnurrenberger said.

Of the 1300 veterinarians questioned, one third had experienced none of the diseases or accidents listed. Ninety-two per cent had experienced three or fewer events.

Forty-five per cent of the 729 veterinarians who had experienced accidents had also experienced a zoonosis, whereas only 26 per cent of those who had not had accidents had experienced a zoonosis.

Those veterinarians who had experienced several of the events were classified as the high risk group.

"There is a trend indicating that these veterinarians not only had a greater variety of accidents but also repeated these accidents more often," Dr. Schnurrenberger said. He emphasized, however, that there is no way as yet to pinpoint such individuals except by means of a history questionnaire.

Dr. Schnurrenberger stressed that the study still is strictly theoretical and that future studies should be conducted to prove or disprove the idea.

"If we could prove this again," he said, "then why couldn't this be carried over into other occupations?"

If such a theory could be proved it could have many applications, he said. In veterinary medicine, for instance, it could be used as an added tool in screening applicants, it could help steer indi-

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Miniature Pig Used In Heart Research

The miniature pig is a good model for studies of the overloaded heart, the newborn heart, the aging heart, and of the coronary circulation, suggest three faculty members of the School of Veterinary Medicine based upon their studies of this animal with a series 395 electrocardiographic recordings from 240 miniature swine.

In a paper just published in Laboratory Animal Science, August, 1971, Dr. Saul D. Larks, professor of veterinary physiology, Dr. Richard B. Wescott, formerly an associate professor of veterinary microbiology, and Golda G. Larks, veterinary research assistant, report their findings in the miniature swine electrocardiograms as the animals grow from birth to one year. Normal mean values for all electrocardiographic data were presented, making possible useful baseline data for future investigators.

The investigators reported that the heart rate of newborn piglets, already high, increases markedly in the first week or ten days, the increase being related in all probability to the stress of and adaptation to extrauterine life. It was suggested that this phenomenon needs to be investigated in other species, including the human.

The common occurrence of irregular heart beats (arrhythmias) as well as an elevation in the ST segment of the electrocardiograph reading suggests that the heart in this swine species is rather continuously overloaded.

Who's Who Con't

Miss Stefanatos is the daughter of Mr. and Mrs. Fotios Stefanatos of Las Vegas, Nev. She plans to return to a small animal practice in Las Vegas to treat exotic pets and eventually specialize in exotic feline medicine and surgery (lions, tigers, etc.)

Miss Diane Marie Brune is the daughter of Dr. and Mrs. T. H. Brune of Warrenton. She is a University Scholar and maintains a 3.9 grade point average. She is a member of the "Missouri Veterinarian" magazine staff, Phi Zeta and Gamma Sigma Delta honoraries.

$5,000 Awarded For TGE Study

Missouri swine producers may soon have some answers to the problem of transmissible gastoenteritis, one of the state's most prevalent diseases of baby pigs. The disease, caused by the transmissible gastroenteritis (TGE) virus, is under study at the School of Veterinary Medicine.

Dr. L. G. Morehouse, professor of veterinary pathology and director of the Veterinary Medical Diagnostic Laboratory, will direct the study, which has been awarded $5,000 by the National Pork Producers. Investigators on the project include Dr. Michel Morin, research associate in veterinary pathology, Dr. L. D. Olson, associate professor of veterinary pathology, and Dr. R. F. Solorzano, associate professor of veterinary microbiology and virologist for the Veterinary Medical Diagnostic Laboratory.

The team will investigate the role of feeder swine, those four to six months old, as a possible reservoir for the TGE virus, which causes the fatal disease in baby pigs. The disease is characterized by vomiting, diarrhea, dehydration, and death within two to five days after the onset of the clinical signs in the newborn pig.

Transmissible gastroenteritis has been observed with increasing frequency in the older, or feeder, swine in recent years. The death rate in these animals may be low, but numbers affected with the disease may reach 100 per cent.

Although mortality rarely occurs in this age group of pigs, economic losses may be incurred from interference with weight gains and establishment of secondary bacterial infections. The disease in older pigs may be especially significant in Missouri because of the large population of feeder swine in the state and the role they may play in the epidemiology of the disease.

The researchers have several objecttives in their study. One is to gain a better understanding of how the disease develops in feeder swine and whether it follows a similar pattern as that observed in baby pigs. They will then attempt to define how long the virus resides in the intestines of older swine, and the period of time over which these animals may spread the virus to susceptible pigs.

They also hope to compare various laboratory techniques to improve the diagnosis of transmissible gastroenteritis.

The researchers believe the study will have immediate practical application for swine producers in Missouri in that it will aid in defining the role feeder swine may play either as a carrier or reservoir for the TGE virus, which may account for the manner in which the virus persists in the pig population throughout the year.

Dr. Dellmann Publishes Text

A new text on Veterinary Histology: An Outline Text-Atlas by Dr. Horst-Dieter Dellmann, professor of veterinary anatomy, has been published by Lea & Febiger of Philadelphia.

Dr. Dellmann has been on the UMC staff since 1964. He recently returned from a sabbatical year at the Université de Strasbourg, Strasbourg, France, where he worked on "Specialized Ependymal Areas and Neuroendocrine Systems" under a travel grant from the University Research Council of the Graduate School.

He received the degree of Vétérinaire in 1954 from the Ecole Nationale Vétérinaire d'Alfort, France, Docteur-Vétérinaire in 1955 from the Université de Paris, France, and Habilitation (Ph.D.) in 1961 from Ludwig-Maximilians Universitat, Munchen, Germany.

The 305-page text is the first veterinary histology book published in English except for one that was translated into English about 20 years ago. It is divided into three sections: Cytology, Histology and Microscopic Anatomy and is primarily a basic text dealing with domestic mammals. It includes more than 350 illustrations and photographs by Dr. Dellmann and includes both photo micrographs and electron micrographs.

Grant Received For Avian Research

Dr. E. L. McCune, associate professor of veterinary microbiology and avian pathologist for the Veterinary Diagnostic Laboratory, received a grant of $3,000 from the Missouri Turkey Merchandising Council for studies of leg weakness in turkeys and for investigation of *Escherichia coli* infection in turkeys.

Zoonoses Con't

viduals into the right occupations, and techniques could be learned and utilized to prevent the occurrence of laboratory and clinical accidents.

In short, it could be used as one more tool in preventive medicine, he said.

Dr. Schnurrenberger is assistant director of epidemiology and chief public health veterinarian in Illinois and is a consultant visiting professor at the School of Veterinary Medicine at the University of Missouri-Columbia.

Dr. Tumbleson Elected Gerontological Fellow

Dr. M. E. Tumbleson, associate professor of veterinary physiology and pharmacology and research associate at Sinclair Comparative Medicine Research Farm, was elected to fellowship in the Biological Sciences Section of the Gerontological Society Oct. 28 at the 24th annual meeting of the Gerontological Society in Houston, Tex. He also presented a paper.

Dr. Tumbleson also attended the first annual meeting of the American Aging Association, Inc. (AGE) Oct. 27 in Houston. Dr. Arthur Flemming, chairman of the White House Conference on Aging, was the keynote speaker. Dr. Tumbleson is a charter member of the AGE.

Other societies in which Dr. Tumbleson currently has memberships include Sigma Xi, Phi Zeta, Gamma Sigma Delta (in which he was the recipient of the 1969 Junior Faculty Award of Merit), American Institute of Nutrition, American Association of Clinical Chemists, Fellow of the American Institute of Chemists, American Society of Animal Science, Conference of Research Workers in Animal Diseases, American Society of Veterinary Physiologists and Pharmacologists, and American Association for Laboratory Animal Science.

About the Faculty

Dr. H.-D. Dellmann, professor of veterinary anatomy, presented a paper at the annual meeting of the Societe de Neuroendocrinologie Sept. 9-10 in Strasbourg, France, on "Données ultrastructurales sur la zone rostrale du lobe intermédiaire de l'hypophyse chez la souris et le rat" co-authored with M. J. Klein, A. Porte, M. E. Stoeckel and F. Stutinsky of the Laboratoire de Physiologie Générale in Strasbourg. He also attended the "Symposium on Brain-Endocrine Interaction: The Median Eminence, Structure and Function," Aug. 2-3 in Munich, Germany.

Dr. J. R. Coffman, associate professor of veterinary medicine and surgery, presented papers on "Acute Abdominal Diseases of the Horse," "Differentiation of Progressive Wasting Diseases," "Laminitis in the Horse," and "Management of Verminous Arteritis Progressive Liver Diseases" at a meeting in October in Cedar Rapids, Iowa, sponsored by the Eastern Iowa Veterinary Association. He also presented the first three at an Alabama Veterinary Medical Association short course Nov. 8-10 at Auburn University.

Dr. W. F. McCulloch, director of veterinary continuing education and professor of veterinary microbiology, presented a talk on "Environmental Health, Ecology and the Veterinarian" to the faculty and students of Colorado State University College of Veterinary Medicine at Fort Collins Oct. 7.

Dr. J. B. Mulder, assistant professor of veterinary medicine and surgery and director of laboratory animal resources, gave a talk on "Erythrocyte Half-time Disappearance from Miniature Swine" at the 22nd annual session of the American Association for Laboratory Animal Science which met from Oct. 11-15 in New York City. Co-authoring the paper were Dr. R. V. Brown, associate professor of veterinary pathology, and Dr. L. A. Corwin, assistant professor of veterinary medicine and surgery.

Dr. M. E. Tumbleson, associate professor of veterinary physiology and pharmacology and research associate at the Sinclair Farm, also presented several papers on miniature swine at the meeting. He also presented a paper concerning serum proteins in developing undernourished Sinclair miniature swine at the 24th Annual Scientific Meeting of the Gerontological Society Oct. 27-30 in Houston, Tex.

Dr. W. F. McCulloch, director of veterinary continuing education and professor of veterinary microbiology, presented a paper on "Public Health Implications of Recent Studies on Transmission and Life Cycle of *Toxoplasma gondii.*" *Dr. D. C. Blenden,* associate professor of veterinary microbiology, presided over a conference of public health veterinarians at the meeting. *Dr. J. D. Rhoades,* associate professor of veterinary medicine and surgery, also presented a paper.

Dr. C. R. Dorn, associate professor of veterinary microbiology, presented a paper on "Public Health Aspects of Cancer in Pet Dogs and Cat" at the 99th annual meeting of the American Public Health Association Oct. 13-14 in Minneapolis, Minn.

Dr. L. M. Cornelius, assistant professor of veterinary medicine and surgery, spoke at a meeting of the St. Louis Veterinary Medical Association Oct. 1 in St. Louis.

New Faculty Con't

research on Marek's disease virus and pseudorabies virus.

Dr. David E. Cardin will be a research associate in microbiology. He received a D.V.M. from Auburn University and has been a medical officer in the U.S. Air Force since 1967. He is presently a captain.

Dr. Steven H. Mills will be a research associate in physiology and pharmacology. He received a B.A. in biology and chemistry from Southwest Missouri State College and M.S. and Ph.D. degrees in physiology from the University of Illinois. He has been a post-doctoral fellow at the University of Missouri's Space Science Research Center since June.

Dr. Rex D. Stith also has been named a research associate in physiology and pharmacology. He received his B.S. and M.S. degrees from Oklahoma State University and just completed a Ph.D. in September at Purdue.

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