



SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



JUNE, 1969 - NO. 23

Research Receives Support Through Grants

The School of Veterinary Medicine has received grants of \$100,000 from the Agricultural Research Service of the U.S. Department of Agriculture for cooperative research and four grants totalling \$19,460 from other agencies.

Half of the \$100,000 is devoted to a project on "Abscesses in Swine" directed by Dr. LeRoy D. Olson, associate professor of veterinary pathology. Dr. Olson is pursuing three research areas on the problem of jowl abscesses: the pathogenesis or development of the abscesses, how the condition is spread under field conditions, and the development of an effective immunizing agent. Dr. Lawrence G. Morehouse, chairman and professor of veterinary pathology, is a co-investigator. Also working on the project are Drs. John A. Schmitz, Harvey S. Gosser, and Ronald L. Schueler, all research associates in veterinary pathology.

The other \$50,000 from the U.S.D.A. supports two research projects involving diseases of cattle. One study is funded with \$30,000 to investigate "Foot Rot of Cattle." This project is continuing into its third year under the direction of Dr. A. Roland Dommert, associate professor of veterinary microbiology, and Dr. Donald W. Johnson, professor of veterinary medicine and surgery. They are studying the infectious agents and physical factors involved in natural transmission of the disease.

The remaining \$20,000 covers a project on "Anaplasmosis of Cattle." The goal of this project is to grow the infectious agent in laboratory animals or in a living culture system in order to study it more thoroughly. Information from these investigations may provide a key to control of this serious livestock problem.

The U. S. Public Health Service has awarded two grants for "Fine Structure of the Neurohypophysis" and "Animal Populations and Human Mortality Patterns." The first one is for \$11,860 and was renewed for another year under the direction of Dr. Horst-Dieter Dellmann, professor of veterinary anatomy.

The second one for \$2,100 will be directed by Dr. C. Richard Dorn, associate professor of veterinary microbiology and of community health and medical practice. This project will be conducted in collaboration with the Ecology Field Station, Public Health Service.

Another grant of \$4,000 was awarded for "Control of Experimental Fowl Cholera" by the Charles Pfizer and Company, Inc. of Terre Haute, Ind. Dr. Olson is in charge of this research. The objectives of the study are to establish the treatment level, efficacy and prophylactic level of an experimental drug against fowl cholera in turkeys.

Dr. Olson is also the principal investigator in a study on "Development of a FA Test for the Serological Classification of *Pasteurella* Isolated from Turkeys." This \$1,500 grant was awarded from June 1, 1969 through September 1, 1969 by the Salsbury Laboratories of Charles City, Iowa.

Eight New People Join Veterinary Medical Faculty

The School of Veterinary Medicine welcomes eight new faculty members on the campus July 1st. Both the Department of Veterinary Medicine and Surgery and the Department of Veterinary Microbiology claim three each and the other two are appointed in Veterinary Anatomy and Veterinary Physiology and Pharmacology.

Dr. Allan R. Albritton will join Veterinary Microbiology as a research associate. He received his B.S. degree in 1959 and his D.V.M. degree in 1960 from Texas A. & M. University.

In 1960-61 he was an assistant professor of veterinary science at the Louisiana State University. He was in charge of the anaplasmosis project there. From 1961-69 Dr. Albritton owned and operated the Marksville Animal Clinic in Marksville, La. His practice was divided into 70% large animals and 30% small animals.

Dr. Albritton's memberships include the AVMA, both the Central Louisiana and the Louisiana VMA and the American Assn. of Bovine Practitioners. He also belongs to the Marksville Quarterback Club and the Sports Club of America and is president of the Marksville Lions Club.

Dr. Roger E. Brown will add to the doubles' confusion with two Dr. Browns, two Dr. Nelsons, two Dr. Shorts and two Dr. Weinmans. The new Dr. Brown is appointed as associate professor of veterinary medicine and surgery.

He received a D.V.M. degree in 1950 and an M.S. degree



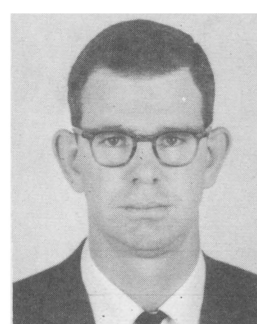
Dr. Buening



Dr. Frewin



Dr. Mulder



Dr. Wagstaff

in 1960 from Michigan State University and a Ph. D. (anatomy) degree in 1964 from Purdue University.

Dr. Brown was in a private veterinary medicine and surgery practice from 1953-60. From 1960-62 he was assistant professor of veterinary anatomy at Michigan State. He spent one year in the Department of Veterinary Anatomy at Purdue and returned to Michigan State from 1963 until the present. Since 1966 he has been assistant director of space utilization and associate professor of veterinary anatomy.

His affiliations include the AVMA, both the Midstate and the Michigan VMA, American Assn. of Anatomists, American Assn. of Veterinary Anatomists, Phi Kappa Phi, Sigma Xi and Phi Zeta.

Dr. Gerald M. Buening has been appointed assistant professor of veterinary microbiology. He was awarded a D.V.M. degree in 1964 and a Ph.D. degree in 1969 from Purdue University. In 1966 he was awarded an M.S. degree from Iowa State University. Since 1966 Dr. Buening has been a graduate instructor at Purdue.

He belongs to the AVMA, Indiana VMA, Phi Zeta, Gamma Sigma Delta and Knights of Columbus.

Dr. Joseph Frewein is a new associate professor in Veterinary Anatomy. He received his D.V.M. degree in 1958 from Tierärztliche Hochschule, Vienna, Austria. He has been with their Department of Anatomy since 1959 and his present title is Oberarzt and Docent.

Dr. Frewein is a member of the Austrian Assn. of Veterinary Surgeons, Anatomical Assn. (Germany), and both the European and World Assn. of Veterinary anatomists.

A new research associate in Veterinary Medicine and Surgery, *Dr. Donald R. Howard* received a B.S. degree in 1963 and a D.V.M. degree in 1965 from Michigan State University and an M.S. degree in 1969 from Texas A. & M. University.

He was a staff veterinarian for one year at Michigan State and also a staff veterinarian at Texas A. & M. from 1966 until the present. Dr. Howard belongs to the AVMA, Michigan VMA, Brazos VMA (Texas), and the College Station Lions Club.

Dr. Dyarl D. King is also a new research associate in Veterinary Microbiology. He received a B.S. degree and a D.V.M. degree in 1962 from the University of Missouri.

From 1962-65 he was in a private practice in Perryville, Mo. Since 1965 he has been with the Agricultural Research Service of the USDA. He was first assigned to Union, Mo. and St. Louis County, but in 1967 he was reassigned to Orono, Maine where he served as avian disease epidemiologist.

Dr. King is a member of the AVMA, Maine VMA, East Central Missouri and Missouri VMA, Maine Round Table Assn. and the Lions Club International.

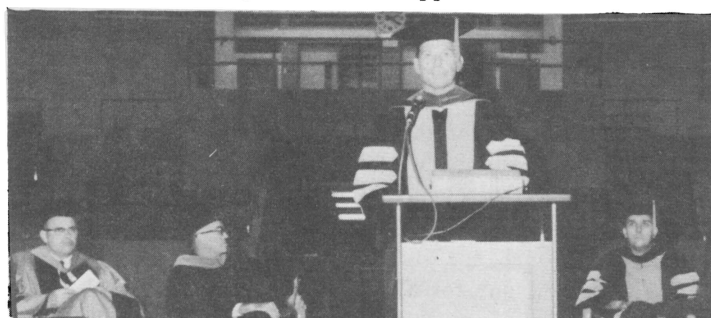
Dr. John B. Mulder is the new chief of laboratory animal medicine at the Sinclair Farm and also an assistant professor of veterinary medicine and surgery. He received his D.V.M. degree in 1956 from Iowa State University. He has owned and operated his own general practice in Eagle Grove, Iowa for the past 11 years.

Dr. Mulder is a member of the AVMA, North Central Iowa and Iowa VMA, Eagle Grove Chamber of Commerce and Eagle Grove Men's Civic Glee Club.

Dr. D. Jesse Wagstaff has been appointed assistant professor of veterinary physiology and pharmacology. He received a B.S. degree in 1959 and a Ph.D. degree in 1969 from Utah State University and a D.V.M. degree in 1962 from Cornell University.

Dr. Wagstaff was a veterinary epidemiologist for the U.S. Public Health Service from 1962-66 except for a year when he served as a veterinary meat inspector for the USDA in Salt Lake City, Utah. Since 1966 he has been a post-doctoral fellow at Utah State University.

Dr. Wagstaff is a member of the AVMA, Northern Utah and Utah VMA, Alpha Zeta, Phi Kappa Phi and Phi Zeta.



Dean Kingrey welcomes the audience to the Precommencement Exercises. Seated left to right are Drs. ShROUT, Schooling and Cornelius.

Kansas Dean Speaks at Precommencement

A reflection of what should be in a veterinarian's mind on graduation day by Dr. Charles E. Cornelius, dean of the Kansas State University College of Veterinary Medicine, stirred some thoughts among the Class of 1969 during Precommencement Exercises.

Dean Cornelius addressed the veterinary medical graduating class, their families and teachers June 3 in the New Livestock Center Amphitheater. He congratulated the 47 graduates upon their "birth into the veterinary profession." A word of thanks was also extended to the veterinary students' wives and the students' families who contributed towards their education.

Dean Cornelius, a 1953 graduate of the University of California, listed ten thoughts that he felt should have been in his mind on graduation day.

" 1). More of a feeling of obligation towards my veterinary school as a source of continuing education.

2). A real obligation to help mankind. The number one international public health problem is a protein deficiency in animals which could possibly be solved by concerned veterinarians.

3). With the shortage of veterinarians there is a need for quality service among the existing veterinarians.

4). There is a need for each veterinarian to organize his time so he can keep abreast of the latest developments in the profession. A certain time each week should be set aside for reading educational material.

5). It is important to take an active role in your community as you will be looked upon as a leader.

6). There is too much individualism among veterinarians which can hurt the profession. Veterinarians should work closer together and strive for common goals.

7). You should have a real concern for the animal as it may have psychological problems similar to humans.

8). This is the age of specialization. Choose one or two areas of special interest and be very good in them. Don't spread yourself too thin, but limit your special interests.

9). Be ready for success by guarding your ego. Keep two feet square on the ground.

10). Never underestimate your clients. Respect them and feel obligated to meet their needs."

In addition to Dean Cornelius's address there were several other guests who spoke during the Precommencement Exercises. Dr. Thomas R. Shrout, president and dean of the Missouri School of Religion, gave the invocation and the benediction. Dr. Herbert W. Schooling, dean of faculties at UMC, extended greetings from the campus administration. The Veterinarian's Oath of the AVMA was administered to the Class of 1969 by Dr. Gerald L. Johnson, president of Missouri VMA.

Dr. George C. Shelton, associate dean for academic affairs for the UMC School of Veterinary Medicine, and Dr. Mark P. Rines, chairman of veterinary medicine and surgery, assisted with the hooding ceremony. Dr. B. W. Kingrey, dean of the UMC School, presided over the exercises.

Dr. Strong Lectures on Heart Transplant Research

Dr. M. Jerome Strong of Baylor University lectured recently at the School of Veterinary Medicine.

He has worked with Dr. Denton Cooley on heart surgery and some 20 transplants at St. Luke's Hospital in Houston and in anesthesiology at the Baylor University College of Medicine.

Dr. Strong's lecture was devoted to the experimental work that led to heart transplants in man. He stressed that the

primary problem in transplantation was immunologic rejection and that the development and purification of antilymphocytic globulin was a breakthrough in controlling this problem. It was his thinking that the surgical procedures for heart transplants were relatively easy to perform compared to open heart surgery for valve replacement. He said that they encountered some new complications in man that they had not found in transplantations in experimental animals. He emphasized that a new set of criteria needs to be worked out to determine compatibility between individuals to minimize rejections.

Dr. Strong has had a unique opportunity that only a few have experienced in the anesthetic management of heart transplants. The transplanted heart is denervated and as a result the responses to medications during anesthesia are not necessarily those observed in other cases.

Two major observations were made during anesthesia on patients receiving heart transplants. One was that cardiac dilation and hypotension corrected by digitalis occurred shortly after cardiac implantation despite prior digitalis therapy of the recipient. The second observation was that marked sensitivity to the cardiac depressant effects of cyclopropane and thiopental did not occur two to three weeks after transplantation in two recipients.

Dr. Strong was invited to speak by Dr. Charles E. Short, assistant professor of veterinary medicine and surgery, who met Dr. Strong when he worked at Baylor University 1965 through 1967.



Dr. Short, left, entertains Dr. Strong before his lecture.

—About the Faculty—

Dr. Edward C. Mather, research associate in veterinary medicine and surgery, presented a program on "Reproductive Procedures and Concepts as they are Related to a Changing Swine Practice" June 10-11 for the Central Illinois VMA in Springfield, Ill.

Dr. Harry H. Berrier, associate professor of veterinary pathology, was the guest speaker May 23 at the Missouri Society of American Medical Technologists and the International Society of Clinical Laboratory Technologists in Lake of the Ozarks, Mo.

Four faculty members presented papers at a meeting of the North Central Association of Veterinary Medical Laboratory Diagnosticians June 10-12 at Kansas State University in Manhattan.

The members and their papers were: *Ralph E. Bond*, research assistant in veterinary pathology - "Some Identifying Features of *Pasteurella Multocida*;" *Dr. Billy E. Hooper*, associate professor of veterinary pathology - "Diagnosis of Disease in Laboratory Animals;" *Dr. Emmett L. McCune*, assistant professor of veterinary microbiology - "Methods and Equipment for Study of Gnotobiotic Chickens;" and *Dr. Robert F. Solorzano*, associate professor of veterinary microbiology - "Reservoirs of Hog Cholera Virus." *Dr. Lawrence G. Morehouse*, professor and chairman of veterinary pathology also attended this meeting.

Dr. Charles E. Short, assistant professor of veterinary medicine and surgery, presented three programs in three different states during June.

He gave a seminar on "Inhalation Anesthesia in Small Animals" June 7-9 to the Tennessee VMA in Nashville. On June 12 he presented a seminar on "Inhalation Anesthesia in Veterinary Practice" to the Southwest Missouri VMA in Hollister, Mo. From June 18-20 he presented a paper on "Anesthesia in Domestic and Wild Animals" at a meeting of the Wildlife Disease Association in Ames, Iowa.

Dr. LeRoy D. Olson, associate professor of veterinary pathology, also presented a paper at the wildlife meeting. It was entitled "A Survey of Wild Ducks and Geese for *Pasteurella*."

Four papers were presented by faculty members June 4-6 at the Technicon International Congress in Chicago, Ill. *Dr. Myron E. Tumbleson*, assistant professor of veterinary physiology and pharmacology, presented two papers on "Serum Chemistry in Normal and Diseased Horses" and "The Study of Aging and Chronic Diseases Using Animals as Biomedical Research Models." The other papers were "Evaluation of Pound Dog Conditioning" by J. L. Stephens, *M. E. Tumbleson* and *R. E. Flatt*, and "Evaluation of Certain Biochemical Parameters in Dogs with Naturally Occurring Diabetes Mellitus" by *Larry M. Cornelius*, Robert Cotton and Peter Theran.

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File types	tiff

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