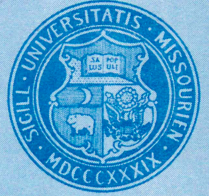


SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



MARCH, 1970—No. 29

Research Receives Grant Support

The U.S. Public Health Service has recently awarded the University of Missouri-Columbia School of Veterinary Medicine a total of \$170,697. \$147,325 of this is for continued studies on previously established research projects; the remainder is for a new study on histoplasmosis.

A specific test for the detection of histoplasmosis, a respiratory disease, is currently under investigation by Dr. Ronald F. Sprouse, assistant professor of veterinary microbiology and microbiology.

Histoplasmosis, an endemic respiratory disease mimicking tuberculosis and a variety of other chest diseases, is most prevalent in the Missouri, Ohio and Mississippi river valleys. The fungus grows in the soil, producing abundant, highly infectious spores which are carried by the wind. Man and animals inhale these spores and develop subsequent respiratory infection usually similar to a common cold or mild influenza.

It is paramount to differentiate between severe histoplasmosis and tuberculosis or other respiratory diseases exhibiting somewhat similar symptoms for treatment reasons. The histoplasmin skin test is used by the clinician for that purpose, but at the present time is not totally reliable. Purification of the skin test antigen, histoplasmin, should increase the reliability of the test and aid the clinician in his diagnosis.

Under a U.S. Public Health Service grant of \$23,372 recently announced by Senator Stuart Symington, Dr. Sprouse is investigating a partially purified derivative from histoplasmin, HPD. Refinement of HPD, previously prepared in Dr. Sprouse's laboratory, should avail the clinician of a more reliable skin test antigen and provide the researcher with a tool for study of immunity in histoplasmosis and other disease.

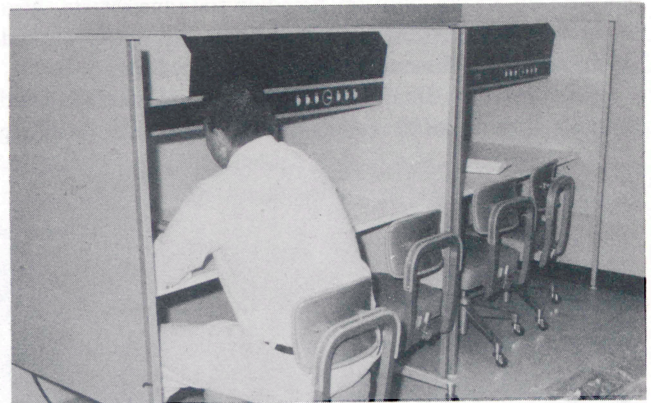
An interdisciplinary study in aging will be continued by the School under a \$115,640 grant from the U.S. Public Health Service.

Now in its third year, "Normal Biologic Profiles for Miniature Swine" will further explore physiologic, anatomic, radiographic, microbiologic and parasitologic aspects of swine at the University's Sinclair Comparative Research Farm for the Study of Chronic Diseases and Aging.

Dr. Richard B. Wescott, associate professor of veterinary microbiology and medical microbiology, is the principal investigator and coordinator of the project. He heads an interdisciplinary team composed of Dr. Myron Tumbleson, assistant professor of veterinary physiology and pharmacology and research associate at Sinclair Farm; Dr. A. Roland Dommert, associate professor of veterinary microbiology;

Dr. Margaret A. Flynn, assistant professor of food and nutrition and head research nutritionist; Dr. E. Allen Corley, professor of veterinary medicine and surgery; Dr. Saul D. Larks, professor of veterinary physiology and pharmacology; Dr. Lawrence G. Morehouse, professor of veterinary pathology and Director of the Veterinary Medi-

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New Teaching Aides Arrive

Two audio-tutorial carrels have been added to the Learning Center located in the Veterinary Hospital-Clinic. The two-man teaching aides are equipped with two slide projectors and an 8-millimeter movie projector. Synchronized to the slide projectors is an audio tape. Besides working space in front of the screens, there will be storage room for reprints, books and other aides so course material may be centralized. Plans are projected to provide two carrels for each subject title in the segmented curriculum.

Practitioners Meet For Breeding Soundness Study

A question and answer session covering the first three lessons of "Infertility and Breeding Soundness Examination of the Bull," a multiple-author correspondence course coordinated by Dr. C. J. Bierschwal, professor of veterinary medicine and surgery, was held in early March at the Veterinary Medicine Hospital-Clinic.

The 12-lesson study ranges from the anatomy, physiology and endocrinology of the bull to hereditary and genetic causes of infertility. It is administered by the University Independent Study Department and Continuing Education for the School of Veterinary Medicine.

Members of the American Veterinary Medical Association Study for Breeding Soundness contributed to the course's assignments. The material is taught via miniature slide projectors and cassette tape recorders in kits of three lessons.

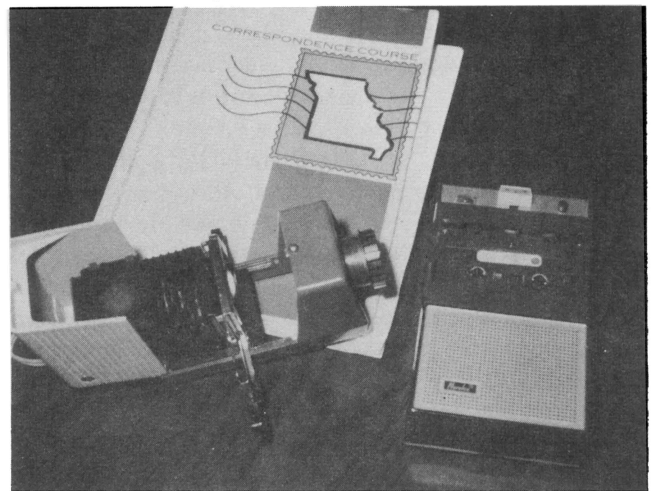
Practitioners taking the course are divided into two groups, one of which participates in a question-answer session twice a month. The other is strictly self-study.

Emphasis in the course is placed on the necessity of testing bulls prior to each breeding season to increase herd reproductive efficiency. For doing this, practitioners are encouraged to use uniform breeding soundness tests. Also bulls must be tested and certified before they may be sold at the bi-annual Missouri Performance Tested Bull Sales.

According to Dr. Bierschwal, the course was developed because "We found that the one and one-half day breeding

short courses taught through Extension were not long enough to adequately cover the material." In the last 8 years, 8 courses have been given, but practitioners continued to repeat the course in search of more information. "The correspondence course is designed as an in-depth study," Dr. Bierschwal concluded.

Practitioners attending the session were: Drs. Charles Counts, Steelville; Frank F. Sutton, Mexico; John Perry, Brookfield; R. F. Taylor, Fayette; R. B. Miller, Warrenton; C. A. Monsees, Sedalia; W. F. Ketchum, Linus, and Glen Krumme, Plattsburg.



Correspondence Course

Dr. C. J. Bierschwal used visual aides to explain "Infertility and Breeding Soundness Examination of the Bull" during the courses question and answer sessions. Here he meets with several of the 17 practitioners enrolled in the multiple-author correspondence course. From near left they are: Drs. Bierschwal, Glen Krumme, John Perry, W. F. Ketchum and Frank F. Sutton. For at home study, the practitioners use this miniature slide projector and cassette-model tape recorder. The booklet includes one group of lessons that correspond with the slides.



Dr. Shimizu talked with several School faculty members including Dr. R. W. Loan, chairman and professor of veterinary microbiology during his brief visit there.

Dr. Shimizu Visits School En Route To London, Hanover

Dr. Kiheiji Shimizu, professor of veterinary microbiology from Obihiro Zootechnical University in Obihiro, Hokkaido, Japan, recently visited the University of Missouri-Columbia School of Veterinary Missouri.

En route to the Royal Veterinary College in London and the Hanover, Germany School of Veterinary Medicine, Dr. Shimizu spent two days with several members of the School faculty and also visited the UMC Medical Center.

He is spending a year visiting departments of veterinary microbiology in the United States and Europe.

Prior to stopping at the School, Dr. Shimizu spent four months at the College of Veterinary Medicine and Biomedical Sciences at Colorado State University. He has also been to the Iowa State University College of Veterinary Medicine.

Dr. Shimizu was a guest of Dr. William F. McCulloch, director of Continuing Education for Veterinary Medicine and professor of veterinary microbiology. They met during the 11th Pacific Science Congress in Tokyo, Japan in 1966.

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cal Diagnostic Laboratory; and Dr. Charles C. Middleton, director of Sinclair Farm, associate professor of veterinary pathology and assistant professor of community health and medical practice.

Investigations into a long-life, implantable battery are being conducted under the direction of Dr. Allen W. Hahn, professor of veterinary medicine and surgery and investigator at the Space Sciences Research Center.

Dr. Hahn is working on "Engineering Studies of a Biological Power Cell" under a \$31,685 grant from the National Heart Institute, a division of Health, Education and Welfare.

The goal of the study is to develop a long-life power source that may be implanted within a human or animal body. The present life of a pacemaker or telemeter battery is two years at maximum and sometimes much less than that. It is also an expensive operation to have the battery replaced.

Dr. Hahn is attempting to perfect small cells of opposite and catalysing metals that will form a flow of current within body liquids and also possess a slow rate of deterioration.

The power outputs of cells constructed from a variety of metals are studied in controlled oxygen environments, then, when proven of a certain quality, are implanted in laboratory animals.

Computer Facilities Now Open to Staff

Computer services are now available for staff and students needing statistical assistance. Open 11 A.M. to 5 P.M. Monday through Friday and 9 A.M. until noon on Saturday, the Statistics Laboratory provides a variety of calculators.

There are 30 Marchant calculators with automatic multiplication and division; one printing Marchant calculator; a Friden electronic calculator and a Wang electronic calculator.

Programmed learning courses in elementary algebra, trigonometry, calculus and elementary statistics are also available.

An assistant will be on duty during the laboratory's working hours.

Assisting Dr. Hahn with this phase of his research is Jeffery Cooper, a graduate student in chemical engineering. Dr. R. E. Hoffer, associate professor of veterinary medicine and surgery, performs the actual surgical implantation of the electrodes. An artificial pouch is created in the animal; he is allowed to adjust to it, then the cell is implanted.

A Welcome To . . .

Four new members have recently joined faculty ranks at the School. The Veterinary Hospital Clinic welcomed two newcomers, while microbiology and anatomy added one each.

Dr. T. H. Fuh, on a fellowship from the Food and Agriculture Organization of the United Nations, is a resident fellow in veterinary microbiology. He plans to study theoretical and applied aspects of veterinary public health and teaching methods.



Dr. Fuh



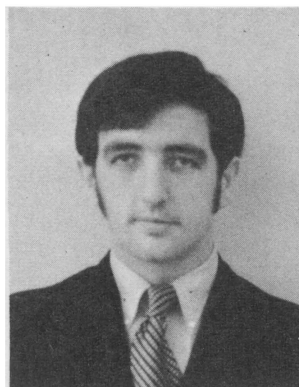
Dr. Chang

A native of Shing-Tsu, Taiwan, Republic of China, Dr. Fuh is a graduate of the National Taiwan University with a B.S. in animal husbandry and veterinary medicine. He has served as a lecturer for the department of veterinary medicine in the National Taiwan University College of Agriculture and has been chief of the Animal Quarantine Section and Microbiological Laboratory for the Taiwan Bureau of Commodity Inspection and Quarantine.

He has also served as Chief of Animal Production Inspection Section for the same bureau.

His professional organizations include the Chinese Society of Microbiology and the Association of Taiwan Provincial Veterinary Medicine and Animal Husbandry.

Dr. Nada Chang, a native of Beograd, Yugoslavia, is now a research associate in veterinary anatomy. She recently received her Ph.D. degree from the University of Kentucky at Lexington. Her previous education included a B.S. degree from the Beograd University of Natural Sciences and a B.A. from the Oxford, Ohio Western College for Women.



Dr. Merriam



Mr. Jett

Dr. Joseph G. Merriam has joined the department of medicine and surgery as a research associate with a speciality in equine medicine.

He received his B.S. and D.V.M. degrees from the Kansas State University School of Veterinary Medicine and practiced equine medicine in Bonner Springs, Kansas.

Following his graduation from Kansas State University, he served as clinical equine intern for the department of medicine and surgery.

Dr. Merriam has served as a consultant for the Veterinary Medicine Publishing Company and as a technical writer for *Veterinary Medicine and Small Animal Practitioner*.

Dr. Merriam is a member of the AVMA, the MVMA and the American Association of Equine Practitioners.

Mr. Clarence E. Jett is an administrative assistant at the Veterinary Hospital-Clinic, handling financial and business activities there. He is also an instructor in business methods applicable to veterinary practice.

Mr. Jett is an alumnus of the University of Missouri, receiving his B.S. and M.A. degrees from the School of Business and Public Administration.

He has been auditor and accounting supervisor and director of planning for the Missouri Farmers Association, Inc. and cost accountant for the Boeing Airplane Company of Seattle, Washington.

He belongs to the National Association of Accountants and the National Society of Accountants for Cooperatives.

Come spend Wednesday and Thursday afternoons at the movies—School of Veterinary Medicine movies that is. Each Wednesday and Thursday from 4:30 to 5 p.m., color films ranging from field trials and training programs for guide dogs to whelping puppies will be shown in room 118 at the Veterinary Hospital-Clinic.

Some of the movies are obtained through the AVMA while others are from commercial companies.

— About the Faculty —

Dr. Badi M. Boulos, assistant professor of veterinary physiology and pharmacology and of pharmacology, was invited to speak at a seminar sponsored by the Schering Corporation of Newark, N. J. He presented "A New Surgical Technique for Studying Placental Transfer of Drugs Under Constant Maternal Plasma Levels." In his previous studies, it was found that Diazoxide, a hypotensive drug, caused hazards in the forms of diabetes mellitus and hyaline membrane disease in the new-born if the drug was given to the mother.

Sponsored by NCDC, *Dr. Donald C. Blenden*, associate professor of veterinary microbiology and of community health and medical practice, presented papers at several meetings during late February. He spoke on "Investigative Techniques", "Sources, Reliability and Interpretation of Data" and "Training and Utilization of Public Health Veterinarians" during a conference on Applied Epidemiology for Veterinarians presented by the NCDC and in consultation with Air Force officials.

Dr. A. A. Case, professor of veterinary medicine and surgery, participated in the Ohio VMA Centennial Meeting February 22-25. He presented an illustrated lecture on forage poisoning in cattle.

Dr. E. A. Corley, professor of veterinary medicine and surgery, presented two one-day radiology seminars in California March 16-21. He spoke to the Southern California AVMA in Los Angeles and the Regional AAHA in San Francisco.

Dr. Thomas M. Eagle, associate professor of veterinary medicine and surgery, was invited to speak before two Southwest VMA groups March 13-18. At the request of UMC alumnus, Dr. George W. Jury, Dr. Case presented "Small Animal Clinical Time Savers" and "Productive Professional Time" to the West Texas VMA in Lubbock, March 14-15. At the New Mexico VMA annual convention in Roswell, he spoke on "Ear Trim Surgery," "Small Animal Supplement to Large Animal Practice" and "Profitable Examination of the Patient."

Dr. Eagle was in Chicago, February 26 through March 1 attending an AVMA Executive Board meeting.

Speaking before the American Pork Congress March 3-5, *Dr. LeRoy D. Olson*, associate professor of veterinary pathology, presented "Swine Abscesses" at the workshop on "Management Disease Interaction." Later he attended a course on "Ophthalmic Pathology" taught at the Armed Forces Institute of Pathology. March 22-26 Dr. Olson was in Davis, California, participating in the Western Poultry Disease Conference and the California Poultry Health Symposium. He presented "What We Have Learned About Cholera in Turkeys" to the first conference and "Solving the Cholera Problem in Turkeys" to the latter.

Dr. Edward C. Mather, research associate in veterinary medicine and surgery, attended the American Pork Producers Meeting and an organizational meeting of the "Swine Practitioners Organization" March 4-5 in Des Moines, Iowa.

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