



# SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



OCTOBER, 1970 - No.35

## \$174,000 Presented to School

A research continuation grant of \$174,000 has recently been presented to the School of Veterinary Medicine by the Public Health Service division of the Department of Health, Education and Welfare. Now in its fourth year, Animal Resources for Aging and Chronic Disease Study is under the direction of Dr. C. C. Middleton, director of Sinclair Comparative Medicine Research Farm and associate professor of veterinary pathology and assistant professor of community health and medical practice.

Clinical, anthropologic, chemical, hematologic (blood) and pathologic (disease) parameters are being coded and recorded in computerized form for lifetime retrieval and analysis of age changes in several species of research animals. Physiologic measurements are planned, current theories of aging will be explored, and new age correlates will be sought as the multiple species and special chronic disease groups of animals are observed. The project is being conducted at Sinclair Comparative Medicine Research Farm.

Co-investigator for the project is Dr. C. J. Marienfeld, coordinator for Health Programs at UMC and director of Extension Environmental Health and professor of community health and medical practice. Also working on the grant are Dr. Pat Manning, pathologist at Sinclair Farm and assistant professor of veterinary pathology; Dr. R. V. Brown, research geneticist at Sinclair Farm and associate professor of veterinary pathology; Dr. J. B. Mulder, clinical veterinarian and assistant professor of veterinary medicine and surgery; Dr. M. E. Tumbleson, biochemist and nutritionist at Sinclair Farm and assistant professor of veterinary physiology and pharmacology; Dr. R. R. Hook, Jr., microbiologist at Sinclair Farm and assistant professor of microbiology, and Dr. D. P. Hutcheson, biostatistician at Sinclair Farm and instructor in veterinary physiology and pharmacology.

## *Dr. Roger Brown to Head Program For Educational Resources*

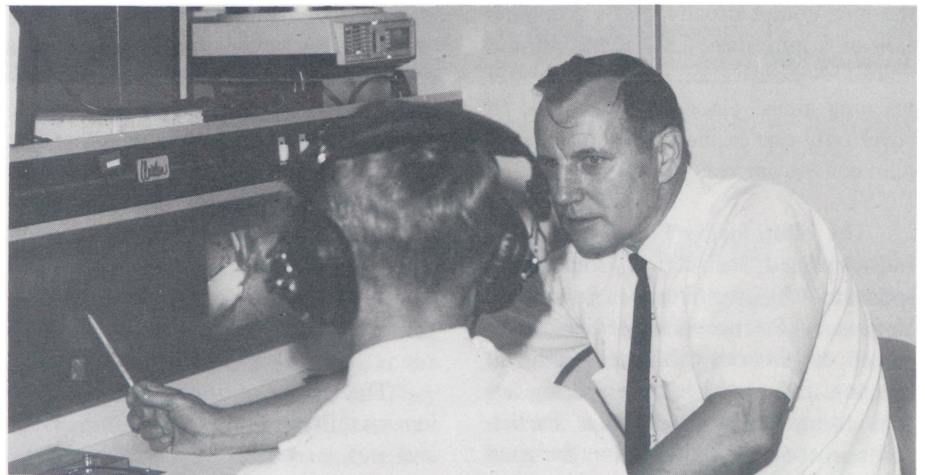
Dr. Roger E. Brown, professor of veterinary medicine and surgery, has recently been appointed Director of Educational Resources for the School of Veterinary Medicine. Besides serving in this capacity, Dr. Brown will continue his duties in medicine and surgery, and also an extension specialist.

The Educational Resources program, with its supporting personnel and equipment, was established after two years of faculty committee study. A motivating factor for the new program was a report by Dr. Clement Benjamin, acting chief of the Audiovisual Center, Atlanta, Ga.

That study detailed the educational resources of the School and assisting University aids. Specific recommendations for future needs and their order of attainment were included.

In the newly-established position, Dr. Brown will coordinate the activities

of a medical artist and photographer and assist faculty in revising existing educational materials, creating new multi-media programs and selecting instructional methods for a revised curriculum.



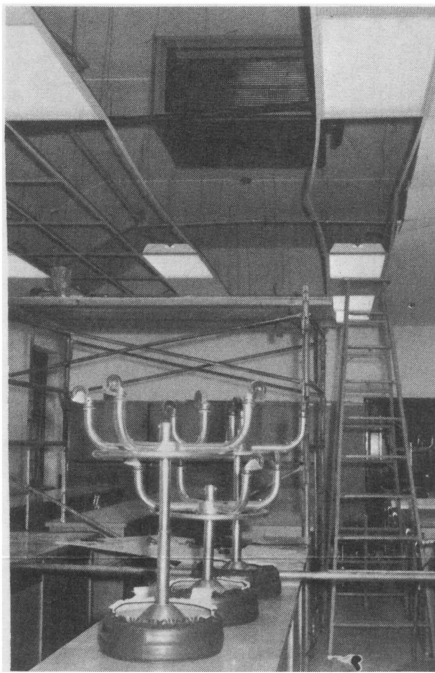
*Dr. Brown instructs a student in the use of a teaching carrel located in the Veterinary Hospital-Clinic Learning Center.*

## Laboratories Get Fall Remodeling

Returning students were greeted with several remodeling projects in Connaway Hall this fall. Air conditioning and additional seating plus bigger and better audiovisual aides were added to microbiology laboratory (Connaway 110) and the pathology/histopathology laboratory (Connaway 204). These renovations were completed in response to a NIH educational instructional grant.



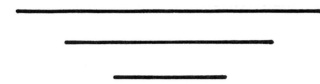
Air-conditioning and more seating arrangements were being constructed at the time of this photograph



## U.S.P.H.S. Awards \$43,474 Grant

Three post-doctoral fellows at the School of Veterinary Medicine will continue work in laboratory animal medicine under a \$43,474 grant from the U. S. Public Health Service.

The grant supports the work of Drs. Reed Rings, Robert Stuhlman and Jack Taylor. Dr. Keith Kraner, director of University-wide animal resources and professor of veterinary medicine and surgery, is director of the grant.



## Purdue Workshop Stresses Mini-Course

Even though 'maxis' are making fall headlines, a certain type 'mini' is finding new favor in educational circles. A short, concise method of presenting instructional material, the 'mini-course' was the subject of a recent conference and workshop at Purdue University, Lafayette, Indiana, attended by ten School of Veterinary Medicine faculty members.

Designed for motivational learning, the mini-course usually uses a combination of 8 mm films, 2 x 2 slides, printed matter, demonstration models and other teaching aides. Since it is designed to cover only one explicit phase of a topic, mini-courses are very brief.

The Multi-Media Programming for Individualized Instruction Conference, sponsored by the Purdue School of Veterinary Science and Medicine, discussed the theories behind programmed learning and methods of preparing lessons using audio-visual aides. Participants in the workshop section designed their own mini-courses, complete from subject matter to implementation, for a

later critique by the whole workshop.

Representatives from all U. S. Schools of Veterinary Medicine and one Canadian institution attended the meeting. At the workshop from UMC were Dr. Kenneth Niemeyer and Dr. J. T. McGinity, associate professors of veterinary medicine and surgery; Dr. G. M. Buening, assistant professor of veterinary microbiology and Dr. C. R. Short, assistant professor of veterinary physiology and pharmacology.

Dr. Niemeyer participated in a group arranged mini-course demonstrating manipulation of a ruptured cruciate ligament in the dog. He said that the key is to present the material in an interesting manner so you "Won't put the student to sleep". Approximately eight programs were prepared as learning experiences by workshop participants.

The theory of multi-media instruction was first developed by the 1960's and put into effect by Dr. Sam Postlethwait, professor of biological science at Purdue. He was attempting to lecture

about 600 students in elementary botany and decided that there had to be a better means of teaching.

He later set up about half a dozen learning carrels, 2 x 2 slides, printed material plus references, and plant films as well as living examples of the material for students to use as they were motivated without a formal lecture series. Assistants were on hand to help students with questions or in mastering techniques. Dr. Postlethwait was also available any time a student needed aid.

The system was set up for 'subject mastery'. Dr. Postlethwait established certain standards that had to be met for a C or average grade. For instance, the completion of 12 lessons was equivalent to a C; for higher grades other criteria had to be met such as oral and written exams or special projects.

With the multi-medial style of instruction a student is free to learn at his own speed and is not usually required to

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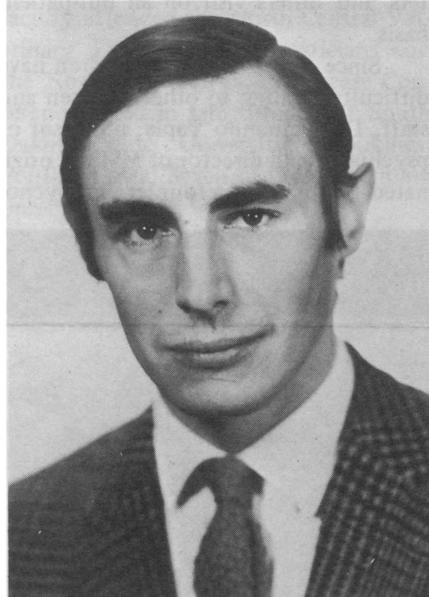
# Dr. Fox Scheduled As First Speaker

First speaker on the fall agenda at the School of Veterinary Medicine is Dr. Michael W. Fox, noted authority on canid behavior. He will speak on domestication and psychosocial development in the dog at 8 p.m., October 12, in the Veterinary Hospital-Clinic auditorium. His appearance is co-sponsored by the Columbia Kennel Club, Inc.

"Early in life, the young animal is afforded greater adaptability to changes in its environmental milieu, while later in life rigidity and stereotype of the potential spectrum of activities develop so that adaptability may be more difficult to achieve." is a statement from one of Dr. Fox's recent scientific papers. As well as discussing the canine in reference to this he plans to cover the behavior of wolves as it relates to domesticated dogs.

Dr. Fox, author of three books on canid behavior and socialization, is a B.V.M. who was graduated from the London University Royal Veterinary

College, M.R.C.V.S., in 1961. He did post doctoral fellow work at Jackson Laboratory Bar Harbor, Maine, and was a research scientist at the State Research



Dr. Michael Fox

Hospital in Galesburg, Illinois, for three years. In 1967, he completed his Ph.D. program at the London University Royal Veterinary College.

Associate director for research at the St. Louis zoo, Dr. Fox is presently investigating behavior genetics, communication, social organization and control of aggression in various canid species. His research includes the development of behavior in canids—wolves, coyotes, grey and Arctic fox, as well as other hybrid subjects.

## Kennel Club Presents \$400 to School

Four hundred dollars was recently presented to the School of Veterinary Medicine, by the Southeast Missouri Kennel Club. This brings gifts from the club to a total of nearly \$1500.

The donation represents proceeds from one of the club's biannual dog shows. Other donations have been given in recognition of services rendered by Dr. Verne Owens, Jackson, as a veterinarian at the club's dog shows, proceeds from other shows, and as private gifts from members.

According to a letter from treasurer, Mrs. Frank Dinelli, Poplar Bluff, the money was presented to the School "to purchase equipment for the Small Animal Clinic." Earlier donations were used for a surgery table, an anesthesia machine and toward the purchase of a metabolic cage.

## Dr. J. H. Riley Joins Faculty

Dr. J. H. Riley, has recently accepted an appointment as a research associate in veterinary pathology and is the first woman to join that department. She will be working with Dr. D. A. Schmidt in the Veterinary Hospital Clinic as a clinical laboratory pathologist and diagnostic consultant.

Dr. Riley is originally from Australia where she received her B. V. Sc. from the University of Sydney, Camper-

down, New South Wales Province. She is one of three from "down under" to join the School faculty this year.

Prior to her appointment here, Dr. Riley was in private practice and was also employed by a veterinary supply company as a pharmaceutical advisor in Australia. She also managed a six-month feasibility study for an Australian Diagnostic Laboratory.

## Two Advanced Degrees Given

Two veterinary microbiologists were awarded M. S. degrees during August commencement exercises at the University of Missouri-Columbia. They are Drs. John Berg and Gene Swenson, both research associates in the department of veterinary microbiology.

Dr. Berg's dissertation was "Studies

with Anaplasma Marginale" and Dr. Swenson's was "Immunologic Studies with Anaplasma Marginale." Dr. Swenson has accepted a position with Merck and Co. based in Ames, Iowa, while Dr. Berg will continue his studies toward a Ph.D. degree here.

### 46th Conference Set

*The 46th Annual Conference for Veterinarians will be held October 26-27 at the University of Missouri-Columbia. Program details will be mailed later this month. Missouri will meet Colorado in football on October 24.*

# Veterinary Medicine And Psychiatry

Veterinary medicine has added a new area to its span of operation at the University of Missouri-Columbia School of Veterinary Medicine. Child psychotherapy, using a canine 'psychiatrist', was recently initiated at the Mid-Missouri Mental Health Center here with the assistance of Dr. Kenneth Niemeyer, associate professor of veterinary medicine and surgery.

The child care unit of MMMHC

deals with emotionally and behaviorally maladjusted children between the ages of 5 and 16. Approximately twenty children live in the pleasant ward quarters and others visit on an out-patient basis.

Since many of these children have difficulty relating to other children and staff, Dr. Fernando Tapia, professor of psychiatry and director of MMHC, originated the plan for a four legged psycho-

therapist in hopes that the children would feel more comfortable with her.

"Although a ward is not home and professionals aren't parents, Smudge's (a black Laborador Retriever) presence will go a long way toward making it feel that way. The children will sense caring and affection and the reciprocation of those emotions by the way we treat Smudge and the way Smudge returns in kind."

Dr. Niemeyer and Dr. Tapia considered many breeds of dog before settling on a Laborador. The veterinarian suggested a large dog with short hair and most important, a gentle disposition. A little investigative work discovered Smudge in Springfield, Missouri.

Although trained as a field dog, she adjusted quickly to her new surroundings, especially after obedience training from Mrs. Willie Hoffer, wife of associate professor of veterinary medicine and surgery, Dr. R. E. Hoffer. Dr. Niemeyer supervised inoculations, and other physical treatment before allowing her onto the ward.

Reaction from the children: "Smudge is Groovy! Peace!" as reads the sign on her bed.



*Smudge, the four-footed psychotherapist, is all attention during an informal session with one of her charges*

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## Mini-Course

*continued from page 2*

attend structured lesson sessions. He also is allowed to establish his own grade according to interest.

Mini-courses can be viewed as paragraphs in the whole multi-media system. They may be pulled for instant reference and students may refer to them without having to sort through notes. Also, they may be put to use in continuing education plans without setting up a long formal session.

## Expansion Grant Given to School

A grant of \$141,491 has been accepted by the School of Veterinary

Medicine from the U. S. Public Health Service. It will be under the direction of Dr. B. W. Kingrey, dean of the School.

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Titled Health Professions Educational Improvement Program—Instructional Grant, the funding will partially be used to expand enrollment from 60 to 65 students per year beginning this fall. It will also cover expenses for improved autotutorial capability and the implementation of certain curriculum changes.



## *Congratulations!*

*The stork made its first visit to Dr. Donald D. Draper and his wife Dianne Friday, September 4, at 3:30 p.m. The Drapers are now the proud parents of 7 lb. 10 oz. Kirsten Kathleen. Dr. Draper is an instructor in veterinary anatomy at UMC.*

## **Dr. F. W. Clayton Elected to Second Term on AVMA Council**

Dr. Fred W. Clayton, assistant professor of veterinary microbiology, has been elected to a second five-year term on the American Veterinary Medical Association's Council on Public Health and Regulatory Veterinary Medicine. This is one of six AVMA advisory councils.

A former chairman of the Public Health and Regulatory Veterinary Medical Council, Dr. Clayton serves the UMC campus as assistant professor of community health and medical practice and deputy director of the Missouri Regional Medical program Computer Fact Bank.

## **Dr. Berrier Promoted**

*Dr. H. H. Berrier, associate professor of veterinary pathology and U. S. Air Force liaison officer at the School, was recently promoted to full colonel in the Veterinary Corps reserves by President Richard M. Nixon.*

*He has also been invited to attend a special course in "Pathology of Laboratory Animals" at the Armed Forces Institute of Pathology. The course met September 20-25 at Washington, D. C.*

# Conference Draws Nine

## Seven Present Papers

Nine members of the School's faculty attended the North Central Veterinary Laboratory Diagnosticians and the North Central Poultry Disease Conferences held in late summer at South Dakota State University, Brookings, South Dakota. Seven of those attending presented papers.

Dr. J. E. Wagner, associate professor of veterinary pathology and laboratory animal pathologist for the Veterinary Medical Diagnostic Laboratory, presented "A Computerized System for Diagnostic Retrieval"; Dr. Dwight Owens, research associate in veterinary microbiology and bacteriologist for the Veterinary Medical Diagnostic Laboratory, presented "Microbial Flora in Guinea Pigs"; and Dr. Donald Schmidt, professor of veterinary pathology, gave a paper entitled "A Case of Possible Erythro-leukemia in the Cat".

Drs. R. E. Bond research assistant in veterinary pathology, and L. D.

## **Canadian Council Names Dr. Morin As Fellow**

Dr. Michael Morin, research associate in veterinary pathology, was recently named a fellow by the Medical Research Council of Canada, located in Ottawa. The fellowship will assist Dr. Morin with research on "Transmissible Gastroenteritis in Swine."

Dr. Morin, a native of L'islet, province of Quebec, received his D.V.M. degree from the University of Montreal, Quebec. In 1969 he joined the UMC faculty.

Olson, associate professor of veterinary pathology, jointly presented, "Studies on Isolates of Pasteurella multocida from Turkeys Using Polyacrylamide Disc-Gel Electrophoresis". Dr. L. D. Olson also teamed up with student assistant in pathology, Dr. J. M. Donahue, to present "Comparisons of Isolates of Pasteurella multocida Obtained on Consecutive Years from Farms with Fowl Cholera".

Director of the Veterinary Medical Diagnostic Laboratory and professor of veterinary pathology, Dr. L. G. Morehouse, presented, "A Discussion of Financial Support to Diagnostic Laboratories—Pros and Cons of a Fee Structure". Dr. Morehouse was elected Chairman of the North Central Conference of Veterinary Laboratory Diagnosticians and will chair the business meeting of the 1971 Annual Meeting set next year at the University of Missouri-Columbia.

Dr. Morehouse was also a member of an American Association of Veterinary Laboratory Diagnosticians site visit team considering accreditation of diagnostic laboratories at South Dakota State University and Iowa State University.

Also attending the meetings were Dr. Emmett McCune, associate professor of veterinary microbiology and the avian pathologist for the Diagnostic Laboratory and Dr. L. D. Kintner, professor of veterinary pathology and pathologist for the Diagnostic Laboratory.

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# — About the Faculty —

*Dr. E. A. Corley*, professor of veterinary medicine and surgery, participated in the regional A.A.H.A. Seminar September 23-25, in Kansas City. His two-hour session was entitled "Plain Film and Special Techniques in Radiological Diagnosis of Esophageal and Gastroenteric Problems".

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*Dr. H.-D. Dellmann*, professor of veterinary anatomy is taking a year's sabbatical. During this year he will reside in Strasbourg, France, where he will hold the same title at the 'Universite' de Strasbourg. He will do research in "Specialized Ependymal Areas and Neuroendocrine Systems".

Dr. Dellmann's sabbatical is being sponsored by the University Research Council of the Graduate School. He will return to his position at the University of Missouri September 1, 1971.

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*Dr. LeRoy D. Olson*, associate professor of veterinary pathology departed August 30, for Madrid, Spain, where he attended and presented a paper at the 14th World's Poultry Congress. The paper is entitled "Epizootiologic, Immunologic and Pathogenic Studies on Fowl Cholera in Turkeys." Dr. Olson is sponsored by the World Poultry Association.

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