



# SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA



SEPTEMBER/OCTOBER, 1969 - NO. 25

## \$10,000 Awarded to Veterinary Microbiology

A three-year grant of \$10,000 has been awarded to the Department of Veterinary Microbiology for unrestricted work in veterinary parasitology by the Merck Company Foundation of Rahway, N. J.

The first installment of \$5,000 was presented to Dr. Edward Ames, left, assistant professor of veterinary microbiology, by Dr. Forrest E. Brutsman, center, of the Merck Foundation. Dr. Ames accepted the check. Dean B. W. Kingrey witnessed the ceremony.

Two more installments of \$2,500 each will be presented for the remaining two-year period. The grant will be used generally for improvements in teaching, research and facilities for veterinary parasitology.



## *U.S.P.H. Awards \$2,500 for Veterinary Medical Data Program*

The U.S. Public Health Service has awarded \$2,500 for a year's continuation of the Veterinary Medical Data Program. Dr. Mark P. Rines, professor and chairman of veterinary medicine and surgery, is in charge of the grant which has been in operation since 1965.

The Veterinary Medical Data Program involves the development of: 1) a standard nomenclature of veterinary diseases and operations; 2) a functional institutional medical records system; and 3) an automated data processing procedure for summarizing and retrieving information recorded during the examination and treatment of clinic patients.

The need for a standard reporting system has long been recognized and the attempt to standardize nomenclature and other aspects of disease reporting have a long history. Several years ago when the National Cancer Institute requested data on the incidence of cancer in animals, the available information was not consistently reported from various schools. The result was an extensive project to develop a standard reporting system using methods similar to those used in human medical facilities.

The system involves many aspects of the Veterinary Clinic operation. A medical records librarian oversees the operation and provides the NCI with an abstract of each animal's record. In return, the Veterinary Clinic receives a comprehensive monthly printed report with analyses and summary information available upon request.

*The Section of Veterinary Public Health in the Department of Veterinary Microbiology has changed its title to more accurately express the activities of the Section. The new title is: Section of Epidemiology and Ecology of the same department.*

## 45th Veterinary Conference Scheduled for Nov. 3-4

The School's 45th annual conference for veterinarians will be held November 3-4 in Columbia. The Alumni Banquet is scheduled for 6:30 p.m. Sunday, Nov. 2 in the Large Ballroom of the Memorial Union. Also scheduled for this weekend is the Missouri football game vs. Kansas State.

For the conference, presentations will be given in rotating seminars by eight guest speakers and eight faculty speakers.

The in-depth coverage of selected subjects will include small and large animal orthopedics and surgery, canine nutrition and medicine related to renal and hepatic diseases, feedlot health management and immunization programs, equine medicine, small animal cardiology, bovine reproduction problems, and regulatory programs.

There will also be TV and clinic demonstrations showing applied and basic research topics concerning veterinary medicine.

# Welcome...

Five new faculty members were recently appointed to the School of Veterinary Medicine.

*Dr. Anthony D. Care* will be a visiting professor in veterinary physiology and pharmacology and a visiting research fellow in Space Sciences Research Center.

Dr. Care holds the following degrees: a B.V.M.S. from Edinburgh University, Scotland; an M.A. from Cambridge University, England; and a Ph.D. from the University of Leeds, England.

In 1959 Dr. Care was head of the Biochemistry Department of the Animal Health Trust Farm Livestock Research Centre. He became the principal scientific officer in 1961 of the A.R.C. Institute of Animal Physiology, Barbraham, Cambridge. In 1963 he was the head of the Endocrine Physiology Section at the Rowett Research Institute. He became affiliated with the Laboratory of Metabolism, National Heart Institute in 1965.

During 1966-67 he was a visiting associate professor of pharmacology at the University of North Carolina. He is presently on the faculty at Edinburgh University and external examiner to the Department of Agriculture, University of Aberdeen, Scotland.

*David P. Hutcheson* has joined veterinary physiology and pharmacology as an instructor and also the Sinclair Research Farm as a biostatistician.

Hutcheson received a B.S. degree in 1963 from Texas A & M University and an M.S. degree in 1967 from UMC. He is still working on a Ph.D. degree from UMC to be completed this January.

He formerly taught and conducted research in computer and statistical consulting for the Department of Animal Husbandry here since 1964. Hutcheson is a member of Gamma Sigma Delta and Gamma Alpha.

*Dr. Michel Morin*, a French Canadian, was recently appointed a research associate in veterinary pathology.

Dr. Morin received his D.V.M. degree in 1968 from the University of Montreal, St. Hyacinthe, P.Q. Canada and has been an instructor in their Veterinary Pathology Department until this September.

*Dr. Robert H. Schiffman* has been appointed associate professor of veterinary physiology and pharmacology. He is also the director of the Space Sciences Research Center since 1967.

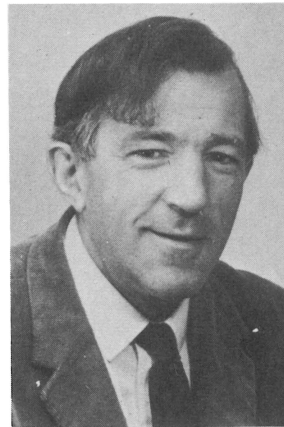
Dr. Schiffman was awarded a B.S. degree in 1947 and an M.S. degree in 1949 from the University of Illinois and a Ph.D. degree in 1957 from Michigan State University.

From 1949-55 he was supervising biologist for the Illinois Department of Public Health in Springfield. After receiving his Ph.D. degree he was a biological scientist for the General Electric Company in Richland, Washington from 1959-62.

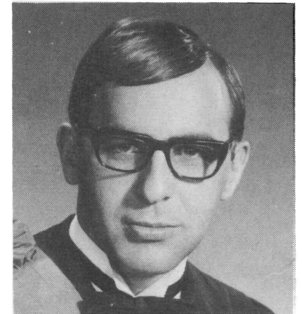
The following year he became research coordinator for NASA's Ames Research Center at Moffet Field, California. Later from 1963-65 he was a member of the senior technical staff and consultant to the general manager of the Northrop Space Laboratories in Nawethorne, California. During 1965-67 he was program director of the UCLA Biosatellite Project of the Brain Research Institute's Space Biology Laboratory.

*Dr. Jack L. Taylor* is a new research associate in veterinary medicine and surgery. He will be doing graduate work in laboratory animal medicine. Dr. Taylor received B.S. and D.V.M. degrees in 1966 from Oklahoma State University.

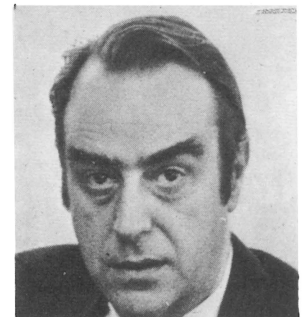
Since graduation he has been head of the Animal Resources Laboratory Animal Management for the U.S. Public Health Service in Perrine, Florida. He belongs to the A.V.M.A., the Oklahoma and Idaho V.M.A.s, Alpha Psi and Phi Theta Kappa.



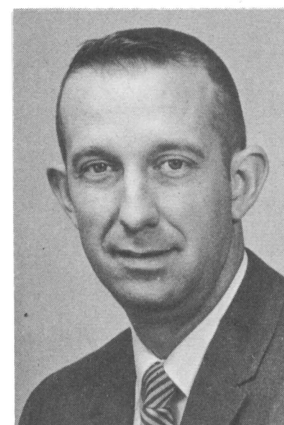
Dr. Care



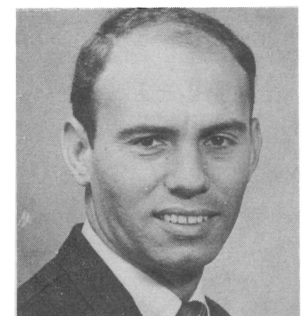
Dr. Morin



Dr. Schiffman



Mr. Hutcheson



Dr. Taylor



*Eleven veterinarians on the Missouri VMA's Advisory Committee to the UMC School inspected facilities at both Purdue and Ohio State Universities schools of veterinary medicine and then concluded their tour with a stop in Columbia in late August. Accompanying the committee were: state representatives Robert E. Young (R-Carthage) and Raymond L. Skaggs (R-Fredericktown), John Sam Williamson, a member of the University board of curators from Columbia, C.M. Kroeck, executive director of the MVMA, and Raol Amos, a UPI reporter from Jefferson City. Here they are shown entering a temporary annex of the School in Columbia.*

### **Dr. Schmidt Contributes to Chapter in Pathology Book**

*Dr. Donald A. Schmidt*, professor of veterinary pathology, recently co-authored a chapter in the 1969 edition of *A Textbook of Veterinary Clinical Pathology*.

Senior author of the chapter entitled "Diagnostic Cytology" was Dr. Esther M. Smith, professor of anatomy, College of Veterinary Medicine and also director of the School of Medical Technology at Michigan State University. Dr. Smith is the wife of Dr. Roger E. Brown, associate professor of veterinary medicine and surgery.

Dr. Donald Schmidt is in charge of the Clinical Pathology Laboratory at the Veterinary Clinic. He was formerly on the faculty of Michigan State where he was given the Outstanding Teacher Award in the College of Veterinary Medicine. He had also completed some of his graduate studies at the Mayo Clinic, Rochester, Minn.

### ***Weekly Seminars Spark Discussion Among Veterinary Medical Faculty***

Several departments or areas in the School have organized weekly seminars for the faculty and any interested persons. Veterinary Anatomy schedules four which include Neurology Journal Club on Tuesdays, Clinical Neurology on Wednesdays, Literature Review of Neurology on Thursdays and Gross Anatomy on Fridays.

Veterinary Pathology also sponsors four per week. They are the "weekly unknown" set up all day Wednesday in the Clinical Pathology Laboratory, movies on Thursdays, general discussion seminars and also a Gross Pathology Seminar on Fridays. This department also contributes to a campus seminar for Comparative Pathology on Wednesdays.

Veterinary Microbiology has scheduled a Microbiology Journal Club on Thursdays. The School's Laboratory Animal Medicine Committee sponsors a seminar on Thursdays.

As the school year progresses other departments will plan seminars to fit in with the faculty's busy weekly calendar.



## 1969 First-year Class Arrives On the Scene

The September calendar brought the beginning of another school year. This year, in particular, will test all existing facilities of the School with its total of 232 students.

Several facts about the incoming first-year students reflects the new type of veterinarian coming through the ranks.

Twenty-six of the fledglings are married with an average age of 20.97 years. About 31 of them have already been awarded B.S. degrees and four even have their M.S. degrees. The class's grade-point average is close to 2.95.

Missouri claims 54 of the students while the

other six are from Nebraska, Arkansas, Maine and Wisconsin. There are two more students from rural backgrounds than urban. About 15 of these young people have been admitted with scholastic honors. Four have already completed their military service.

Diversity of interests among the class is apparent with the types of jobs that they have held. Included among them are a rodeo rider, computer programmer, wildlife major, public health major, bird dog raiser, physics major, microbiologist and property appraiser.

Three young ladies grace the class adding to the 12 females who are divided among the other classes.

## Veterinary Ob./Gyn. Clinic in The Netherlands

### Highlighted Sabbatical of Dr. Bierschwal

Another faculty member has just returned from a rewarding year in a foreign country. Dr. C.J. (Bush) Bierschwal, professor of veterinary medicine and surgery, was granted a sabbatical leave from the School, but was financed by the Dutch government in return for his work at the University of Utrecht, Utrecht, The Netherlands (Holland). It was sort of a reverse lend-lease program as he describes it.

Dr. Bierschwal selected the Utrecht because of its reknown work in animal obstetrics and gynecology. He knew that their clinic handled more cases than any he had investigated in Europe. Being quite



Professor Doctor DeBois (standing) presents Dr. and Mrs. Bierschwal with a gift from the faculty of the University of Utrecht at a going-away party.

familiar with the obstetrics/gynecology work that was being conducted in the U.S., Dr. Bierschwal wanted to see what was being done in Europe.

While at the University of Utrecht, he was considered a full-time faculty member and spent half of his time in clinical teaching and the other half in research. His major research project involved artificial insemination of swine, specifically investigations of boar sperm and its use in artificial insemination. The Netherlands was ideal for this project as they inseminate more swine than all of the rest of Europe combined.

At Utrecht there are four separate clinics which operate apart from one another both in facilities and

in personnel. They include the Obstetrics/Gynecology Clinic, Large Animal Surgery Clinic, Large Animal Medicine Clinic, and the Small Animal Surgery and Medicine Clinic. The facilities are quite new and all of the clinics are in full operation except for the latter which will be ready next September.

Dr. Bierschwal worked under the guidance of Professor Doctor C. H. W. DeBois, director of the Veterinary Ob./Gyn. Clinic. His clinic treats both small and large animals and operates its own ambulatory units. Dr. DeBois had both a clinical staff and a research staff. Almost totally research oriented, the research staff includes two biochemists, two enzymiologists and four veterinary research personnel. They are backed up with sufficient laboratory facilities and use the team approach in all of their projects. When Dr. Bierschwal was there, major concentration was on reproduction of sheep. They also were planning to start studying problems in the sow and cow and probably the mare.

“My observation is that they have advanced in the field of obstetrics probably beyond most of our U.S. universities, but this is probably because they have more practice than we do.” noted Dr. Bierschwal. There is a higher rate of dystocia per cow population than in this country. However,” he added “our work in the field of clinical infertility is probably more advanced than theirs.”

He explained that individual animals are more valuable in The Netherlands than in the U.S. as the farms are smaller. The milk cow usually is used a combination milk and meat product. Many farmers keep the animals in a combination house and barn. (Living quarters in front and stables in rear.) But in the U.S. the herds are larger and keeping track of the individual animal is much more difficult.

Language was no obstacle during the Bierschwal's stay as the Dutch people learn English, German and French in addition to their own language. Dr. Bierschwal's college grammar came in handy when he was asked to help some of the faculty prepare research articles with English summaries.

Grateful for the opportunity the UMC School provided, Dr. Bierschwal feels that the U.S. and The Netherlands could benefit from more of this type of teaching exchange among their faculties.

## Mastitis Workshop Was Learner-Oriented

Twelve Missouri veterinarians participated in a recent two-day Mastitis Workshop sponsored by the School of Veterinary Medicine and Extension Division.

Dr. Donald W. Johnson, professor of veterinary medicine and surgery, directed the workshop with the assistance of Professor R. T. Marshall, food science and nutrition, Professor F. M. Crawford, extension agricultural engineer, and Professor F. H. Meinershagen, project leader in dairy production.

In-depth presentations and discussions were held on the role of infectious and non-infectious agents, host and environmental factors relating to mastitis and the principles of milking machine systems as they relate to a mastitis control program. Emphasis was placed on techniques that could be used in mastitis prevention as part of an overall herd health program.

The learner-oriented workshop was so designed to allow for maximum participation by veterinarians in all phases including performance of diagnostic screening and bacteriologic tests, presentation of herd case-study problems and their possible solutions.

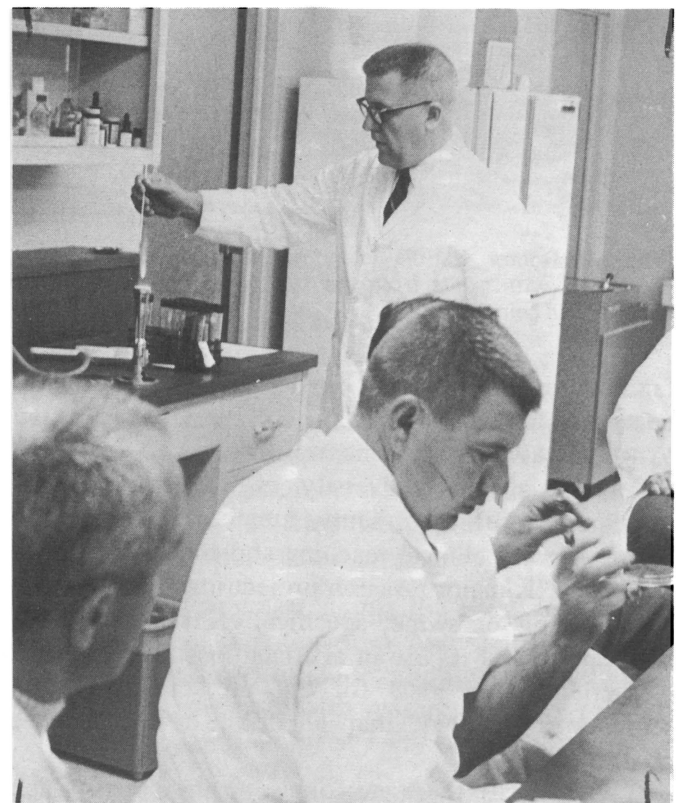
Reading material was sent prior to the two-day workshop. A follow-up evaluation will be conducted to assess whether course objectives were accomplished.

Attending veterinarians were: Drs. K. H. Buchmann, Washington; A. M. Matteson, La Plata; E. A. Miekley, Cassville; R. B. Miller, Warrensburg; L. F. Moore, Drexel; R. R. Orr, Aurora; H. H. Robertson, Higginsville; L. E. Rohlfing, Hermann; N. L. Stone, Jackson; M. M. Townley, Jefferson City; J. V. Walker, Union Star; and P. W. Widel, Union.

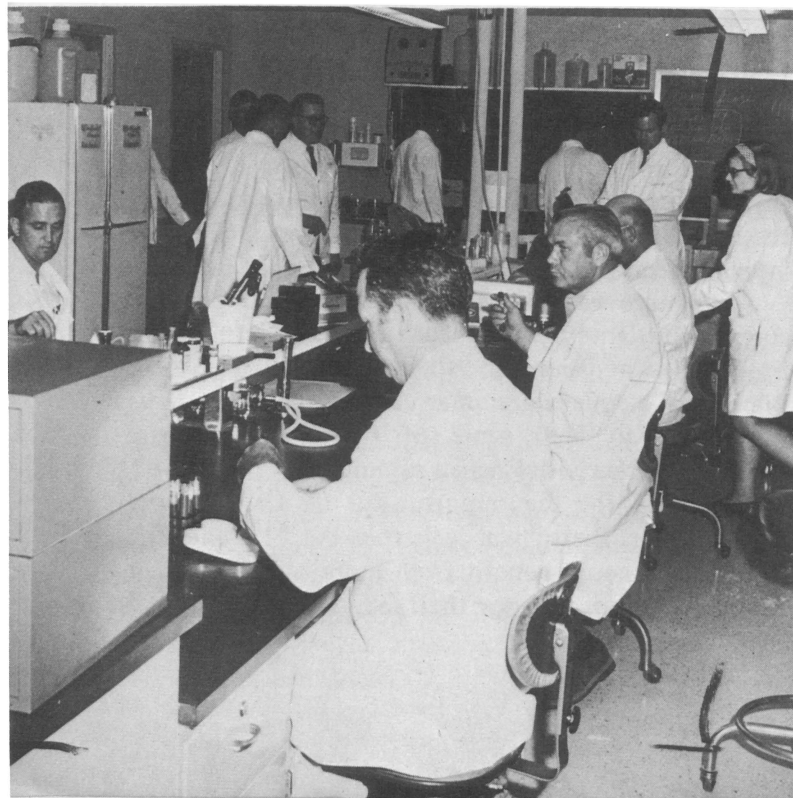
Missouri veterinarians prepare to increase their knowledge of mastitis problems.



Dr. Robertson is busy at work in a corner of the Clinical Pathology Laboratory.



Dr. Johnson (standing) was in charge of the Workshop.



# — About the Faculty —

*Dr. Billy E. Hooper*, associate professor and chairman of veterinary pathology, presented a paper on "Basic Pathogenic Mechanisms in Diarrheal Diseases" August 30 to the Western Kentucky VMA in LaCenter, Ky.

Dr. Hooper also presented three papers September 24-27 at the 57th annual Indiana Conference for Veterinarians in Lafayette, Ind. They were "Air Conducting Portion of the Respiratory Tract," "Alveolar Portion of the Respiratory Tract" and "Diagnostic Techniques and Pathology of Respiratory Diseases in Cattle."

*Dr. LeRoy D. Olson*, associate professor of veterinary pathology, spoke on "Fowl Cholera, Prevention and Treatment" at the Southeastern Poultry Health Seminar on Sept. 15-16 at the University of Georgia in Athens.

He also lectured on "Middle Ear Infection in Laboratory Rats" Sept. 22-26 at the Armed Forces Institute of Pathology in Washington, D.C.

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*Dr. Badi M. Boulos*, assistant professor of veterinary physiology and pharmacology, presented a paper on "Placental Transfer of Sulfanilamide, Salicylate Antipyrine" at the American Society of Pharmacology August 22-29 in Pittsburgh, Pa.

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*Dr. Myron E. Tumbleson* and *Dr. Donald E. Weinman*, associate professors of veterinary physiology and pharmacology, presented papers August 3-6 at the 61st annual meeting of the American Society of Animal Science at Purdue University.

Dr. Tumbleson spoke on "Serum Biochemic and Hematologic Parameters of Neonatal Fawns" and Dr. Weinman on "Tissue Iron Priorities in Iron Deficient Calves."

Dr. Tumbleson was also chairman of a session scheduled Oct. 13-18 at the American Assn. of Laboratory Animal Science meeting in Dallas, Texas.

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*Dr. William F. McCulloch*, director of veterinary continuing education, spoke on "Recent Developments in Leptospirosis" and "Why Academies in Veterinary Medicine" at a meeting of the Southeast Missouri VMA Sept. 16-18 in Poplar Bluff, Mo.

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*Dr. H.-D. Dellmann*, professor of veterinary anatomy, and *Dr. E. M. Rodriguez*, visiting research fellow in veterinary anatomy, presented papers at two international meetings in August. Dr. Dellmann presented a paper on "Investigations on the Hypothalamo-Neurohypophysial Neurosecretory System of the Grass Frog (*Rana pipiens*) After Transection of the Proximal Neurohypophysis Ultrastructure and Hormone Content of the Distal Stump," and Dr. Rodriguez presented one on "Morphological and Functional Relationships Between the Hypothalamo-Hypophysial Systems and Cerebrospinal Fluid" at the fifth international symposium on Neurosecretion August 20-23 in Kiel, Germany.

They also presented papers at the fifth conference of European Comparative Endocrinologists August 24-29 in Utrecht, The Netherlands. Dr. Dellmann spoke on "Ultrastructure and Hormonal Content of the Proximal and Distal Stumps of the Transected Median Eminence of the Grass Frog (*Rana pipiens*)" and Dr. Rodriguez on "Fine Structure of the Toad Subcommissural Organ."

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*Dr. Arthur A. Case*, professor of veterinary medicine and surgery, and *Dr. James E. English*, associate professor of veterinary medicine and surgery, attended the region 7 meeting of the American Association of Bovine Practitioners Sept. 3-5 in Manhattan, Kan.

Dr. Case also attended the Midwest Interprofessional Seminar on Diseases of Animals and Man Sept. 23-24 in Ames, Iowa. He lectured on "Toxic Seeds and Molds in Food Products."

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*Dr. Harlan E. Jensen*, research associate in veterinary medicine and surgery, attended a planning session for a comprehensive study of diseases of eyes of dogs in the U.S. Sept. 10-14 at the Stanford Medical School.

The study will be on seemingly normal dogs and there will be five centers established in the U.S. with Dr. Jensen as section chief of this area.

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*Dr. Ronald F. Sprouse*, assistant professor of veterinary microbiology, will present a paper on "Preparation and Standardization of Histoplasmin" Oct. 5-8 at the 2nd National Conference on Histoplasmosis in Atlanta, Ga.

The conference is sponsored by the University of Kentucky School of Medicine, the West Virginia School of Medicine and the National Communicable Disease Center.

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*Dr. Charles E. Martin*, associate professor of veterinary medicine and surgery, spoke to the Carrol County Pork Producers Assn. on Oct. 1 about swine diseases and his recent trip to England.

He will also give a seminar on "Detecting and Correcting Sterility and Fertility Problems" Oct. 17-19 at the 7th annual Charlois Congress in Kansas City, Mo.

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*Dr. Dyarl D. King*, research associate in veterinary microbiology, presented a paper Oct. 13-14 at the 12th meeting of the American Assn. of Veterinary Diagnosticians in Milwaukee, Wisc. His paper was on "Field and Laboratory Studies with Marek's Disease."

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Several faculty members participated in a meeting of the North Central, 1962, Technical Committee working on enteric diseases of swine Oct. 1-3 in Ames, Iowa.

The Missouri team presented research findings on transmissible gastroenteritis and salmonellosis. Sharing in this report were: *Drs. L. G. Morehouse*, professor of veterinary

pathology and director of the Diagnostic Laboratory; *L. D. Olson*, associate professor of veterinary pathology; *D. E. Rodabaugh*, professor of veterinary pathology; *R. F. Solorzano*, associate professor of veterinary microbiology; and *H. F. Troutt*, research associate in veterinary pathology.

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*Dr. Larry M. Cornelius*, research associate in veterinary medicine and surgery, attended the fall veterinary conference of Purdue University and a Gaines Research Symposium Sept. 24-29 in Lafayette, Ind.

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*Dr. C. Richard Dorn*, associate professor of veterinary microbiology, presented the results of a field study he was involved in while working in Contra Contra County, California at the fourth International Symposium on Comparative Leukemia Research Sept. 21-25 in Cherry Hill, N.J. The study concerned canine leukemia cases.

### ***Veterinary Graduate Students Receive Awards from U.S.P.H. Service***

A post-doctoral fellowship and three supply allowances have been awarded to the School of Veterinary Medicine by the U.S. Public Health Service.

The National Institute of Mental Health has awarded a \$7,450 fellowship for *Dr. Donald D. Draper's* post-doctoral study in "Functional Properties of Cerebellar Visual Areas." *Dr. Draper* is an instructor in veterinary anatomy.

The supply allowances of \$1,000 were awarded to *Dr. Dyarl D. King*, research associate in veterinary microbiology for "Pathogenesis of Avian Leukosis;" *Dr. Louis R. Nelson*, research associate in veterinary medicine and surgery for "Pathogenesis of Benign Melanoma in Miniature Swine;" and *Dr. H. Wayne Taylor*, research associate in veterinary pathology for "Pathogenesis of Twiehaus Virus in Birds and Cell Culture."

### **Laboratory Technician On the Job For 25 Years in Veterinary Medicine**

A 25-year work mark was reached this past June by *Mrs. Mildred (Millie) Hatton Allen*, laboratory technician in veterinary microbiology.



**Mrs. Allen**

*Mrs. Allen* first worked in the School doing brucellosis testing in 1937-38. She was on a U.S. project that lasted for that year. Upon leaving the School she worked in the office of

a local physician and later married *Denver I. Allen* in 1939. She gave birth to two sons in 1942 and 1943, respectively.

Her husband received a Ph.D. degree in 1942 from the University of Missouri and was an instructor in field crops for about a year. He later made a career of the military service until his early death in 1953.

With two young sons and a husband in service, *Mrs. Allen* returned to the School in 1944 where she has been on the job ever since. She has witnessed various transition stages of the School from a Department of Veterinary Science to a part in the Division of Agricultural Sciences and finally as a separate School of Veterinary Medicine.

Among the significant changes have been the personalities involved including *Dr. A. J. Durant*, Dean Emeritus *A. H. Groth*, and *Dean B. W. Kingrey*. However, *Mrs. Allen* has worked under the close supervision of *Dr. H. C. McDougale*, professor of veterinary microbiology, in most of her many years' service.

When asked what she liked best about her job, *Mrs. Allen* replied "the people who I've worked with including the faculty, staff and students."

School of Veterinary Medicine  
**FACULTY NEWSLETTER**

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