

VETERINARY MEDICAL REVIEW

School of Veterinary Medicine, University of Missouri-Columbia



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Visiting the Veterinary Diagnostic Laboratory were (left to right) Drs. C. E. Hopla, Charles McPherson, H. B. Lofland, James Metcalfe, and Paul Newberne.

Dr. C. R. Short to Study Fetal Plasma and Drugs

"Many drugs used in the treatment of anxiety and neurotic conditions are transferred across the placenta and gain access to fetal circulation. The effect of these compounds on the normal development of the central nervous system and on the subsequent mentality of the individual is for the most part unknown." This is a statement from a recently approved research project on drugs and fetal studies at the University of Missouri-Columbia School of Veterinary Medicine.

Under the direction of Dr. C. R. Short, assistant professor of veterinary physiology and pharmacology and assistant professor of medical pharmacology, "Studies on Drug Protein Binding in Fetal Plasma" will attempt to unravel the effects of several types of drugs on near-term fetuses and the recent born.

Funded by HEW's National Institute of General Medical Science, the project will use Duroc Swine for models. Swine were chosen because of their many similarities, such as cardiovascular make-up, to man and their convenient size. Announcement of the recent approval of \$15,641 for the study was made by Missouri senators Stuart Symington and Thomas Eagleton and representative Richard Ichord.

A pilot study in the effects of drug protein on fetal plasma, the research will be conducted at the Veterinary Medical Research Farm located northeast of Columbia. The pregnant swine models will be given a variety of drugs with known binding values. Plasma samples will be drawn and then studied for results.

NIH Visitors Examine Programs

Switching from its usual Bethesda, Maryland home, the NIH Animal Resources Advisory Committee held the last of its three annual meetings here. The 15-member committee spent two days in Columbia in mid-October examining animal resources requests from other institutions and viewing the laboratory animal programs and facilities here.

A program, introduced by Dr. L. C. Murphy, associate dean for veterinary research and a member of the NIH committee, explained operations at UMC. Speakers were Drs. A. H. Emmons, professor of nuclear engineering and radiological sciences, University-wide; R. A. Bloomfield, associate dean of the UMC Graduate School; H. S. Goldberg, assistant dean of the UMC School of Medicine; B. W. Kingrèy, dean of the UMC School of Veterinary Medicine; C. C. Middleton, associate professor of veterinary pathology, Sinclair Research Farm; and M. E. Tumbleson, associate professor veterinary physiology and pharmacology.

Discussing the research animal diagnostic laboratory were Dr. B. E. Hooper, professor and chairman of veterinary pathology and Dr. J. E. Wagner, associate professor of veterinary pathology. Dr. K. L. Kraner, professor of veterinary medicine and surgery, and Dr. R. B. Wescott, associate professor of veterinary microbiology, spoke on UMC laboratory animal training programs.

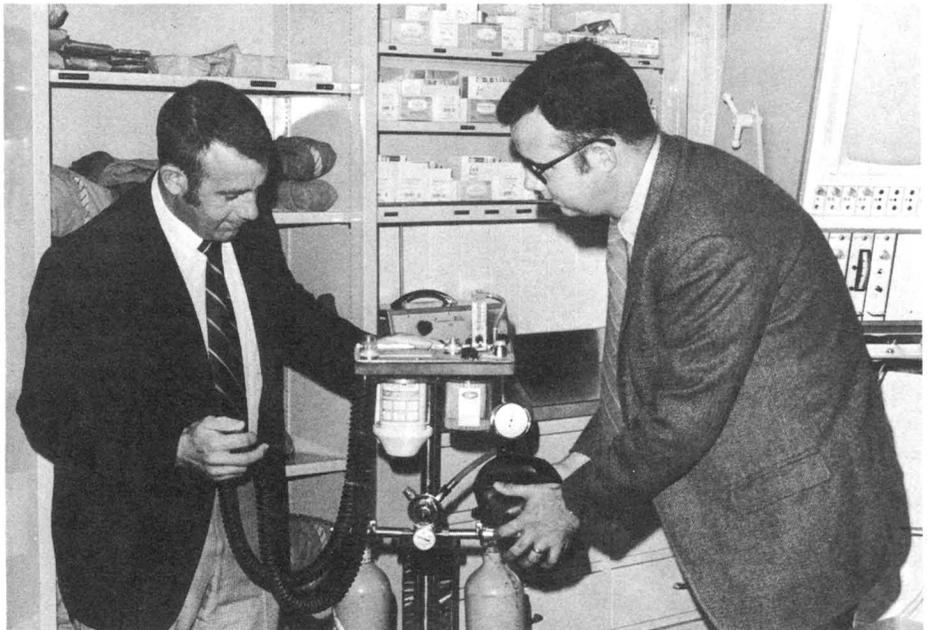
NIH Animal Resources Advisory Committee members are: Drs. R. E. Stowell, director of the National Center

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Anesthesia Apparatus Given to School By Snyder Co.

A new inhalation anesthesia machine was presented to the University of Missouri-Columbia School of Veterinary Medicine recently by the Snyder Co., of New Philadelphia, Ohio. The company is presenting similar machines to schools of veterinary medicine as introductory teaching aides.

Dr. Pat Riggins, representative for Snyder and a 1959 graduate of the UMC School of Veterinary Medicine, made the presentation to Dr. C. E. Short, associate professor of veterinary medicine and surgery and chief of veterinary anesthesiology.



Dr. Pat Riggins, representative from the Snyder Company, points out a few of the assets of a new anesthesia apparatus to Dr. C. E. Short.

Dr. Blenden to Head P.H. Conference

Dr. D. C. Blenden, associate professor of veterinary microbiology, has recently taken office as president of the Conference of Public Health Veterinarians. He was installed during the association's annual meeting October 27-29, in Houston, Texas.

His duties will include studying the utilization of veterinarians in the health problems of today, assisting in the development of a veterinary medical section within the American Public Health Association and closer liaison with the American Veterinary Medical Association.

Chief of veterinary epidemiology and ecology, Dr. Blenden is an alumnus of the University of Missouri-Columbia. He received his M.S. here in 1953, and his D.V.M. in 1956. After practicing in Kirkwood, Missouri, he returned to his alma mater as an instructor.

Dr. Blenden is a member of the American Association for the Advancement of Science, American Public Health Association, Conference of Public Health Veterinarians, the American Society for Microbiology, the American Veterinary Medical Association, American Men of Science, the Missouri Veterinary Medical Association, and the Royal Society of

Physiologists Publish Paper

Dr. Saul D. Larks and Golda G. Larks, both of the department of veterinary physiology and pharmacology, are

 ★ Copies of Dean Emeritus Groth's ★
 ★ History of the School of Veterinary ★
 ★ Medicine are still available. Cov- ★
 ★ ering the ups and downs of the ★
 ★ School, the factual booklet spans ★
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Health. He is a member of Sigma Xi and Phi Zeta honoraries and is certified by the American Board of Veterinary Public Health. He serves on the Executive Board of that group.

co-authors of "Computer-based studies of birth condition and of malformation, using the fetal electrocardiogram". This invited paper was published in the *Homenaje al Profesor Doctor Luis Castelazo Ayala XXV Aniversario Profesional*, Volumes I and II, Mexico City, Mexico, 1970.

These volumes are a *festschrift* in honor of Dr. Ayala. All contributions to these volumes are invited original works from colleagues of Dr. Ayala from many countries of the world.

The Larks' paper shows specific examples of abnormal fetal electrocardiograms associated with congenital cardiac malformation. One was associated with known thalidomide intake (in West Germany) and with limb and other malformations (phocomelia). Two methods of early, even prenatal, diagnosis or estimation of the presence of malformation are proposed. One deals with waveform methods based upon the fetal electrocardiogram, the other on computer-based mathematical prediction.

—About the Faculty—

Dr. C. Richard Dorn, associate professor of veterinary microbiology and of community health and medical practice, presented "Historical and Contemporary Synergisms of Dog and Man" at the Second Annual Purebred Dog Exhibition, at Tilles Park, St. Louis. He was sponsored by the German Shepherd Dog Club.

Attending an ophthalmology seminar in San Antonio, Texas, October 2-6, was *Dr. H. E. Jensen*, research associate in veterinary medicine and surgery.

"Genetic Mechanisms in Free Radical Acceptance and Erythrocyte Aging" was presented by *Dr. L. A. Corwin*, assistant professor of veterinary medicine and surgery at the 23rd Royal York Annual Meeting of the Gerontological Society. Co-authoring the paper were *Drs. R. V. Brown*, associate professor of veterinary pathology and *J. B. Mulder*, assistant professor of veterinary medicine and surgery. *Dr. M. E. Tumbleson*, associate professor of veterinary physiology and pharmacology and research associate at Sinclair Research Farm, presented "Blood Values for One to Ten-Year-Old Rhesus Monkeys" during the same meeting. It was co-authored by *Drs. C. C. Middleton*, director of Sinclair Research Farm and associate professor of veterinary pathology, and *D. P. Hutcheson*, instructor of veterinary physiology and pharmacology.

November 1-4, *Dr. Tumbleson* presented two papers and chaired one session at the 1970 Technicon International Congress in New York. *Dr. Tumbleson* spoke on "Effect of Relative Centrifugal Force, During Separation of Serum from Cells, on Serum Biochemic Values" and "Changes in Blood Chemistry Profiles Induced by Grain-feeding of Cattle." He also chaired the session of Veterinary Medicine. At the November 4-7, Chicago meeting of the 21st Annual Meeting of the American Association for Laboratory

Animal Science he presented two papers "Undernutrition in Young Sinclair (S-1) Miniature Swine: A Model" and "Blood Values of Sinclair (S-1) Miniature Swine from 1 through 11 Months of Age."

Dr. Louis R. Nelson, research associate in veterinary medicine and surgery, was in Auburn, Ala., November 13-18, for the University's Annual Conference for Veterinarians. He and *Dr. J. E. Wagner*, associate professor of veterinary pathology, attended the AALAS meeting November 1-6, in Chicago, Ill. There *Dr. Wagner* presented "Group XIX—Diplococcal Infections in Laboratory Animals."

Participating in the symposium "Diseases in Wild Waterfowl", *Dr. L. D. Olson*, associate professor of veterinary pathology, was in Jamestown, N.D., October 19-22.

Dr. Billy E. Hooper, chairman and associate professor of veterinary pathology, presented three papers to the Kentucky VMA during their 59th annual meeting held September 27-29, in Louisville, Kentucky. They were "The Origin and Nature of Diarrhea," "Diarrheal Diseases of Young Pigs" and "Who Will Your Competitors Be?"

Dr. B. E. Hooper, presented two papers at the annual meeting of the Manitoba Veterinary Medical Association in Winnipeg, Man., Canada, October 22-25. They were "General Pathology of the Gastrointestinal Tract" and "Diagnosis and Treatment of Gastroenteric Diseases of Swine". He also participated in a panel on gastroenteric diseases.

Attending and participating in a radioimmunoassay workshop, *Dr. E. C. Mather*, research associate in veterinary medicine and surgery, was in Ann Arbor,

Mich., October 19-21.

Attending the U.S. Animal Health Association Meeting, October 18-23, were *Drs. Raymond W. Loan*, chairman and professor of veterinary microbiology; *L. G. Morehouse*, director of the veterinary diagnostic laboratory and professor of veterinary pathology; and *A. R. Dommert*, professor of veterinary microbiology. *Dr. Morehouse* and *Dr. Dommert* attended the Veterinary Laboratory Diagnosticians Meeting also held in Philadelphia, Pa. *Dr. Dommert* spoke on "Isolation and Identification of Obligate Anerobic Bacteria" there, while *Dr. Morehouse* served as program chairman for the Midwest. *Dr. Morehouse* also was the Missouri delegate to the Executive Board of the American Association of Veterinary Laboratory Diagnosticians and a committee member for standard methods for the diagnosis of hog cholera.

In Houston, Tex., October 27-29, *Dr. Donald C. Blenden*, associate professor of veterinary microbiology and of community health and medical practice, presented "Veterinary Public Health: where do we go from here," to the American Conference of Public Health Veterinarians. He also participated in the convention as a member of the Action Board.

Dr. R. B. Wescott, associate professor of veterinary microbiology and medical microbiology, *Dr. E. R. Ames*, assistant professor of veterinary microbiology, *J. J. Chang*, research assistant in veterinary microbiology, and *Larry Congdon*, third-year veterinary medical student, recently attended the Second International Congress of Parasitology in Washington, D.C., held September 6-12, and visited the Beltsville Parasitological Laboratories and the A.F.I.P. *Dr. Ames* participated in a colloquia on Host Nutrition and Parasitism during the conference.

Dr. Ronald F. Sprouse, assistant professor of veterinary microbiology and of microbiology, was at the University of Kentucky, Lexington, November 5-9, for a presentation before the American Thoracic Society. While in that region, he visited the NASA Redstone Arsenal in Huntsville, Alabama.

Participating in the Arizona State Veterinary Medical Association meeting, *Dr. E. A. Corley*, professor of veterinary medicine and surgery, was in Tucson, Arizona, November 12-17.

Dr. Louis A. Corwin, Jr., assistant professor of veterinary medicine and surgery, participated in a meeting of Educators in Veterinary Radiologic Science, November 27-29, in Chicago, Illinois.

An executive board member of the American Association of Laboratory Animal Science and the Association for Gnotobiotics, *Dr. R. B. Wescott*, associate professor of veterinary microbiology and of microbiology, attended meetings of both groups November 1-4, in Chicago, Illinois.

Attending the Conference of Research Workers in Animal Diseases, *Dr. Gerald M. Buening*, assistant professor of veterinary microbiology, was in Chicago, Illinois, November 27 through December 1. He presented "The Detection of Pseudorabies Virus Antibodies in the Nasal Secretions of Recovered Swine."

Dr. T. M. Eagle, associate professor of veterinary medicine and surgery, at-

tended the Small Animal Association's 33rd meeting November 10-13, in Rock Island, Ill.

Mr. Lloyd Hiler, research technologist at the UMC School of Veterinary Medicine, was featured speaker at the quarterly meeting of the Missouri State Society of American Medical Technologists held recently in St. Louis. He presented a seminar and discussion on "Research in Rabies Virus and Vaccine."

Dr. James S. Larsen, assistant professor of veterinary medicine and surgery, has recently received a \$20,000 grant from the Orthopedic Foundation for Animals based in Chicago. The funding is for research on orthopedic diseases in animals.

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for Primate Biology, Davis, Calif.; Herman Chase, director of the Institute of Life Sciences, Providence, R.I.; R. A. Griesemer, chairman of the Ohio State University department of veterinary pathology; C. E. Hopla, professor of zoology, Oklahoma University; H. B. Hofland, professor of pathology, Bowman Gray School of Medicine, Wake Forest University, division of Laboratory Animal Medicine;

Drs. James Metcalfe, professor of the University of Oregon School of Medicine; Alvin Moreland, head of the University of Florida College of Medicine's division of comparative medicine; and P. M. Newberne, professor of the Massachusetts Institute of Technology, department of nutrition and food science.

NIH staff members attending were Drs. Charles McPherson, Pat Camerino, Willard Eyestone, Leo Whitehair and John Holman.

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