



VETERINARY MEDICAL REVIEW

School of Veterinary Medicine
University of Missouri-Columbia

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Eight New Faculty Appointed by School

Five residents and three research associates have been appointed to the faculty of the School of Veterinary Medicine. The residents are Harry W. Boothe Jr., Ronnie G. Elmore, Charles McGrath, Ralph Richardson, and Wilbur Scrutchfield. The research associates are Darrell A. Kinden, Stewart Odend'hal and Ahmed I. Radwan.

Dr. Harry Boothe received a B.S. and D.V.M. from Michigan State University and has been associated with the Noyes Animal Hospital in Barrington, Ill., since March 1971.

Dr. Ronnie G. Elmore has been associated with Dr. F. E. Boyer, Jackson Center, Ohio, since June 1972 and is a graduate of the University of Illinois, receiving both a B.S. and D.V.M. He also has an A.B. from Greenville College, Ill.

Dr. Charles McGrath received an A.A. from Fullerton Junior College, Long Beach, Calif., and a B.S. and D.V.M. with honors from the University of California-Davis in 1972. He has been an intern at Cornell University this past year and was previously a doctors' assistant at California Animal Hospital, Los Angeles, while working on his degree. He is a member of Phi Zeta and Phi Kappa Phi honoraries.

Dr. Ralph Richardson received his D.V.M. in 1970 from Kansas State University and a B.S. in 1969. He was a captain in the Army Veterinary Corps at Ft. Hood, Tex. and in Korea until July 1972 when he began an internship at Purdue University in small animal medicine. Dr. Richardson is a member of Alpha Zeta honorary.

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Two Grants Received For Turkey Research

A bacteria colony counter is being used in research at the School of Veterinary Medicine, University of Missouri-Columbia, to study an infection in joints and bone marrow in turkeys, which causes difficulty in standing. Robert Oligschlager, chairman of the Missouri Turkey Merchandising Council, Tuscumbia, looking into counter, presented a \$5000 grant on behalf of the Council to key researcher, Dr. Emmett McCune, veterinary microbiologist, on left. Dr. LeRoy Olson, pathologist, on right, received a \$5000 grant to study why turkeys seem to be more susceptible to fowl cholera during hot weather. (See Story on Page 3)

Student's Hobby

Most people have hobbies, and many spend a great deal of time with them as a means of relaxation after a hard day's work. But for Elliott Jacobson, a second year student at the University of Missouri School of Veterinary Medicine, the pursuit of a hobby he began nearly twenty years ago has led to a decision to make that hobby a career.

His hobby? Collecting and caring for exotic animals, particularly reptiles.

At present, Jacobson's collection numbers around five dozen specimens, including four boa constrictors, five pythons, miscellaneous copperheads, rattle snakes and water moccasins, an alligator, a crocodile and a cayman, a gila monster, a parrot, and a five-foot lizard called a Monitor that recently came close to biting off his owner's thumb.

"The doctor at the student health clinic that sewed up my thumb at first thought I was crazy when I told him I'd been bitten by a giant lizard," Jacobson relates. "But when he finally believed me he thought it was pretty funny."

As anyone can imagine, keeping this large a number of animals can cause more than a few problems, especially when you keep them in your home. In fact, Jacobson and his wife have recently moved to larger quarters to accommodate his growing collection. A special room in the house is kept under tropical conditions, Jacobson explains, using extra heaters to keep the temperature at about a steady 85 degrees, and a Vita-lite for artificial sunlight to provide the animals with needed vitamin D.

Jacobson estimates that he spends about two hours a night feeding and caring for the animals, including keeping their living spaces clean. "Cleanliness is very important to the animals' well being," he emphasizes, "even some people that have only one or two snakes don't keep their pets' living areas properly clean."

Jacobson finds no problem in finding or purchasing food for his animals. He simply raises his own. "I couldn't afford to feed them otherwise," he explains. Since the staple of a large snake's diet is rodents, Jacobson maintains a colony of 300 mice and 20 rats at the University's biology laboratories. As a concession to his wife, he also keeps his five poisonous snakes there.



Snakes are furtive creatures, Jacobson says, and can easily remain undetected even indoors. "We once had a snake loose in the house for four months," Jacobson relates, "until my wife found it while dusting a bookcase."

How did Jacobson get started collecting snakes? "I started with insects and worked my way up," he answers, only half jokingly, for that is indeed the way his collection began some 20 years ago in his native New York City. After working on a farm in Virginia one summer, his interest in animals grew, and after receiving his B.S. from City University, he went on for an M.S. in environmental physiology at New Mexico State. After two years of teaching in the University's biology department while working on his doctorate in endocrinology, Jacobson decided to enter Veterinary School and work towards a DVM.

It was his experience in keeping and caring for his animals that led to this decision, Jacobson says. "Some veterinarians weren't able to treat my animals when they needed attention," he explains, "so I decided to learn to treat them myself." Besides, he adds, there are few people working in reptile medicine today, and there is a lot to be done.

Jacobson also feels that his years of experience in keeping and caring for his animals has given him some insight into the animals' habits. "You have to know their behavior to know when they're sick or well," he says. Jacobson also stresses that a veterinarian should be knowledgeable about the behavior of the various exotic species in the wild, not merely while in captivity in a zoo.

Becomes Career Goal

His wife's reaction to keeping the rest of his animals (including the pythons, boa constrictors and the thumb-biting Monitor) at home is one of toleration, Jacobson says. "But she's a lot more comfortable around them than she used to be," he adds. There have been times, though, that would try the patience of any woman.

Though he has purchased several animals, Jacobson has captured the majority of his collection himself on field trips in the wilds. A trip last May through Mexico and Central America, for instance, netted a number of additional specimens to the collection, as did recent trips to Mexico and the Southeast United States.



Lucille is the "star" of the award winning "The Sinclair Story," a film about the Sinclair Research Farm's miniature swine.

Two Grants Received

Two grants have been awarded to faculty members in the School of Veterinary Medicine for research with turkeys by the Missouri Turkey Marketing Council.

A \$5,000 grant will be used to study colibacillosis, a joint and bone infection which makes it difficult for turkeys to stand. Researchers will attempt to discover the factors in the environment which influence development of the disease. They will also attempt to discover the factors in the laboratory. Dr. Emmett McCune, veterinary microbiologist, is in charge.

Another grant of \$5,000, under the direction of Dr. LeRoy Olson, associate professor of veterinary pathology, will be used to study fowl cholera. Last year, 68 outbreaks of cholera in turkeys were diagnosed at the Veterinary Diagnostic Laboratory. It is estimated that about 10 percent of the turkeys in Missouri last year were endangered by this disease. Researchers will attempt to find why turkeys seem to be more susceptible to cholera during hot weather.

New Faculty Con't.

Dr. Wilbur Scrutchfield received a B.S. in 1962 and a D.V.M. from the University of Missouri in 1965. He was self-employed for a short time in Nevada, Mo., before serving in the army for two years and then returned to practice in Nevada.

The research associates are:

Darrell A. Kinden received a B.S. from Luther College, Decorah, Ia., an M.S.T. from Wisconsin State University, Superior, Wis., and will receive a Ph.D. in plant pathology from the University of Missouri-Columbia in August. He was a biology teacher and coach in Greenwood, Minn., for four years and then was a graduate assistant and on the football coaching staff at Wisconsin State University before becoming an instructor in biology and football coach there. He has been a graduate research assistant in plant pathology at UMC since 1969.

Dr. Stewart Odend'hal is a research associate in veterinary anatomy. He received a B.A. from U.C.L.A. and a D.V.M. from the University of California at Davis in 1967. He also attended Indiana State University while working

Film on Sinclair Farm Receives CINE Award

"Miniature Swine in Biomedical Research," a film produced by the Educational Resources Center for the School of Veterinary Medicine and the Sinclair Comparative Medicine Research Farm, has been selected to receive a CINE Eagle.

The award is given by the Council on International Nontheatrical Events (CINE). The film was one of 153 documentary, educational, and short subject films chosen from 417 entries to represent the United States in international competition abroad during the coming year. Awards resulting from these showings will also be presented to the producers and sponsors.

Awards will be received by Ron Cherkas, information specialist in the Educational Resources Center, who directed the film and by Dr. M. E. Tumbleson, associate professor of veterinary physiology and pharmacology and research associate of the Sinclair Farm, who will represent the Sinclair Farm as the sponsoring agency.

The film is based on the research being done on alcoholism, atherosclerosis, malnutrition, aging and other biomedical problems using miniature pigs. The pigs are a strain of swine developed at the University of Minnesota under the sponsorship of the Hormel Foundation. Their anatomy corresponds to the human in cardiovascular makeup, skin, blood vessels of the retina, gastrointestinal tract and dental design and they reach only about 200 to 300 pounds instead of the 1000 to 2000 expected in a normal pig. They also suffer heart disease, gastric ulcers, rheumatoid arthritis and nutritional diseases like man. For these reasons they are an excellent research model.

The 16 minute film explains how the research is carried out and how the information is used by the interdisciplinary team of experts involved in various studies.

as a research veterinarian at Pfizer Inc. the past two years. Prior to that he was an assistant professor of pathobiology at Johns Hopkins University.

(Con't on page 4)

Microbiologist Meet; Faculty Give Papers

Papers presented May 6-11 at the American Society for Microbiology Annual Meeting in Miami Beach, Fla. by faculty members were:

Electrophoretic Separation and Characterization of Blastomycin, M. V. Lancaster* and R. F. Sprouse;

The Effect of Tetracycline upon Establishment of *Escherichia coli* of Animal Origin in the Enteric Tract of Man; D. C. Hirsh*, G. C. Burton, and D. C. Blenden;

Studies on Pathogenicity of Pure and Mixed Cultures of Selected Anaerobic Bacteria; J. N. Berg* and R. W. Loan;

Serogroups, Phage Types, and R Factors among *Escherichia coli* and *Salmonellae* from Rural Environments; F. J. Marsik*, J. T. Parisi, G. F. Burton and D. C. Blenden;

In Vitro Cell-mediated Immunity in Experimental Allergic Encephalomyelitis (EAE); A. R. Allbritton*, R. W. Loan and D. C. Hirsh;

Development of a Target Cell Destruction Assay for Cell-mediated Immunity in the Chicken; D. J. Granlund*, G. M. Buening, and R. W. Loan;

Effect of Protein-Calorie Malnutrition on the Antibody Response of C57BL/6 Mice to Sheep Erythrocytes; R. R. Hook, Jr.*, D. P. Hutcheson, M. E. Tumbleson, and D. L. Hook.

*Indicates person presenting the paper.

Faculty Notes

Dr. E. A. Corley, professor and chairman of veterinary medicine and surgery, presented a radiology seminar for the Las Vegas Veterinary Association and the A.K.C. March 23-27 entitled, "Non-Traumatic Bone Lesions."

Dr. A. A. Case, professor in veterinary medicine and surgery, participated in the spring meeting of Southwest Iowa VMA in Red Oak on April 2-3. Dr. James R. Coffman, associate professor of veterinary medicine and surgery, also participated and demonstrated corrective trimming in chronic laminitis and lectured on "Acute Laminitis."

Dr. H.-D. Dellmann, professor of veterinary anatomy, attended the 86th Session of the American Association of Anatomists in New York City from April 9-12 and presented a paper on: "Ultrastructure of the rat neural lobe following interruption of the hypophyseal stalk."

Dr. William S. McDowell, research associate in veterinary medicine and surgery, presented a paper entitled, "Hormone Relationships in Agalactic Sow" at the NCR64 Conference on Swine Agalactia in Lincoln, Nebr. on April 26-27.

Dr. Hans Adldinger, associate professor of veterinary microbiology, presented a paper on "Role of Herpesviruses in Oncogenesis," at a meeting of the Missouri Academy of Science, April 27, at the Cancer Research Center, Columbia

Dr. Leroy D. Olson, associate professor of veterinary pathology, was recently appointed to the National Turkey Federation Fowl Cholera Research Committee.

The AVMA Executive Board recently appointed Dr. William F. McCulloch, director of Continuing Education in Veterinary Medicine, to a second five-year term on the AVMA Continuing Education Advisory Committee. He represents the American Association of Extension Veterinarians and is presently serving as vice-chairman of the committee. One of the recent projects of CEAC was co-sponsoring the recent Third Workshop on Veterinary Continuing Education held at the University of Missouri-Columbia.

New Faculty Con't.

Dr. Ahmed I. Radwan will begin as research associate in veterinary microbiology in July. He received a D.V.M. in Cairo, Egypt in 1963 and an M.S. from Central Michigan University, Mt. Pleasant, in 1970. He recently received a Ph.D. in veterinary science from Washington State University. Dr. Radwan was a research officer with the United Nations Equine Encephalomyelitis Unit of the Food Agriculture Organization from 1963-66. He was in research training in microbiology at the Center for Disease Control in Atlanta in 1967-68.

School of Veterinary Medicine

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