



SCHOOL OF VETERINARY MEDICINE FACULTY NEWSLETTER

UNIVERSITY OF MISSOURI - COLUMBIA

APRIL, 1970—No. 30



A.V.M.A. Team Examines School

A seven-member team from the A.V.M.A. Council on Education was here April 6-8 viewing facilities, faculty and programs. Main points in the visit were discussions with the various departments and tours of the facilities.

Dean B. W. Kingrey presented a general orientation and organizational structure outline, followed by Dr. George



Clinical consultations took an informal turn. Here Drs. A. A. Case, C. E. Martin, E. C. Mather, C. J. Bierschwal and T. M. Eagle meet with Dr. B. F. Hoerlein (left), Dr. N. O. Nielson (center) and Dr. R. L. West (right).

Federal Funding Available

In a recent letter from the Department of Health, Education and Welfare, Dean B. W. Kingrey received notification that 66.67 percent (approximately \$10.8 million) of funding for new facilities for the School of Veterinary Medicine would be covered by federal funds. However certain stipulations must be met.

"This is not a notification of award of funds," the letter read. "Many factors such as the availability of matching funds, the priority rating and the number of other approved applications, as well as the amount and availability of Federal funds, influence the order and timing as well as the actual amount of the award."

It is felt however that if state funds are made available this year the prospects of immediate federal funding are good.

Shelton, associate dean for academic affairs, and Dr. Leslie Murphy, associate dean for research development.

The Elected Faculty Committee Advisory on Policy spoke with visitors about general activities at the School. Tours of the School were followed by meetings with department faculties and chairmen.

Dr. Wescott, associate professor of veterinary microbiology and microbiology, presented the area of Laboratory Animal Resources, while Dr. Roger Brown, associate professor of veterinary medicine and surgery, discussed Educational Resources. Dr. Billy E. Hooper, professor and chairman of veterinary pathology, spoke on curriculum revisions. Presenting continuing education and extension activities was Dr. William McCulloch, professor of veterinary microbiology and director of veterinary extension.

The team also met with student representatives and concluded their visit with a conference with University of Missouri president John C. Weaver and Chancellor John Schwada.



Dr. Terrence Curtin, chairman and professor of veterinary physiology and pharmacology, escorts Dr. Robert Schroeder (left) and Col. W. H. Grau (right) on a tour of the Veterinary Sciences Building.

Team members were: Dr. B. F. Hoerlein, Auburn University School of Veterinary Medicine, Auburn, Ala.; Dr. R. Leland West, practitioner from Waseca, Minn.; Col. William H. Grau, chief of the department of veterinary medicine at Sheppard Air Force Base, Texas; Dr. W. M. Decker, director of A.V.M.A. Scientific Activities, Chicago, Ill.; Dr. N. O. Nielsen, University of Saskatchewan College of Veterinary Medicine, Saskatoon, Canada; Dr. Robert J. Schroeder, practitioner from Downey, Calif. and Dr. Donald R. Mallett, vice-president and executive dean of Purdue University, Lafayette, Ind.



Dean B. W. Kingrey addresses students at Career Day. Officers from the M.V.M.A. were later introduced (they are seated behind the podium) and senior veterinary students presented talks.

Congratulations

Dr. and Mrs. C. R. Dorn recently added a new member to their family. Margot Lorraine weighed in at 8 pounds, 4 ounces, March 12, to join Michael, 4 and Lori, 3.

A 7 pound, 1 ounce girl, Kathleen Mary is the newest addition to the L. A. Corwin family. Born March 25, she joins Peggy, 15, Donald 12, Maureen, 11, Nancy, 10, Jane, 8, Mary 7, Tom, 5 and Paul, 4.

250 Visitors

Sometimes when an institution starts doubting the loyalty of its alumni, something like Veterinary Career Day at the University of Missouri School of Veterinary Medicine restores the faith.

During this unique event, held for the seventh consecutive year March 26, practitioners from across the state sponsor promising high school students to a day on the veterinary campus. The students get a close-up look, usually with a running commentary from their sponsor, on the professional training and dedication of the veterinarian.

Sponsored by the Missouri Veterinary Medical Association, the Missouri student chapter of the A.V.M.A. and the School, Career Day is unique in the field of veterinary medicine. Most schools host a visit day in conjunction with their institution's high school information day. At MU however, the School organizes a program and series of tours that covers everything from bacteriology to actual surgery in a program apart from the University's high school days.

Approximately 200 high schoolers attended Career Day this year accompanied by more than 30 veterinarians. More than 60 veterinarians sponsored the students but in some areas such as Kansas City and St. Louis efficiency overruled quantity and only a few sponsors escorted the bus loads of students. Dr. Brown Hamer of Slater, Mo. brought the largest singly sponsored group. More than 25 students from the Slater and Marshall areas piled into a yellow school bus with him for Career Day.

Traveling the greatest distance, close to 300 miles, Dr. J. A. Hennessy brought three visitors from Poplar Bluff. Turnout from St. Louis and Kansas City was extraordinary.

1st Symposium on Intestinal Flora Held

Discussion ranging from "what happens to intestinal flora in space as in an astronaut situation?" to the relationship of bacteria and protozoa in intestinal mucosa cells were focal points of the first International Symposium on Ecology of the Intestinal Flora in a Changing Environment.

The symposium was sponsored by the University of Missouri-Columbia School of Veterinary Medicine, School of Medicine and Extension Division, the Space Sciences Research Center and the Graduate School. It was held in connection with the spring meeting of the Missouri Branch of the American Society for Microbiology March 30-31, in the Medical Center Auditorium.

Dr. B. W. Kingrey, dean of the School of Veterinary Medicine, welcomed participants and guests to the sessions. Dr. Robert Schiffman, associate professor of veterinary physiology and pharmacology, associate professor of bio-engineering and Director of the Space Sciences Research Center, was opening speaker for the dinner meeting.

School of Veterinary Medicine faculty members presenting sessions were Dr. Richard Wescott, associate professor of veterinary microbiology and microbiology, on "Metazoa-Protozoa-Bacteria Interrelationships" and Dr. William F. McCulloch, professor of veterinary microbiology and Director of Continuing Education for Veterinary Medicine, who led a summary and perspective panel.

Discussions covered factors affecting the numbers and kinds of microbes present in the intestine to the effect on this base of normal flora when the intestinal environment is changed by antibiotics and diet. The relationship of bacteria and protozoa to each other and the intestinal mucosa cells and the chemical activity of bacteria were also included along with what happens to the flora in a restricted environment with information from gnotobiotic studies.

More than 200 persons from the United States and Canada attended the meeting as well as three Europeans.

Attend Career Day 1970

More than 60 students from the greater Kansas City area were on hand, while two buses were filled with excited greater St. Louis students. Groups of five or less from smaller towns were just as enthusiastic.

Career Day 1970 began with registration and a welcome by Dr. B. W. Kingrey, dean of the School of Veterinary Medicine, and an introduction of M.V.M.A. officers.

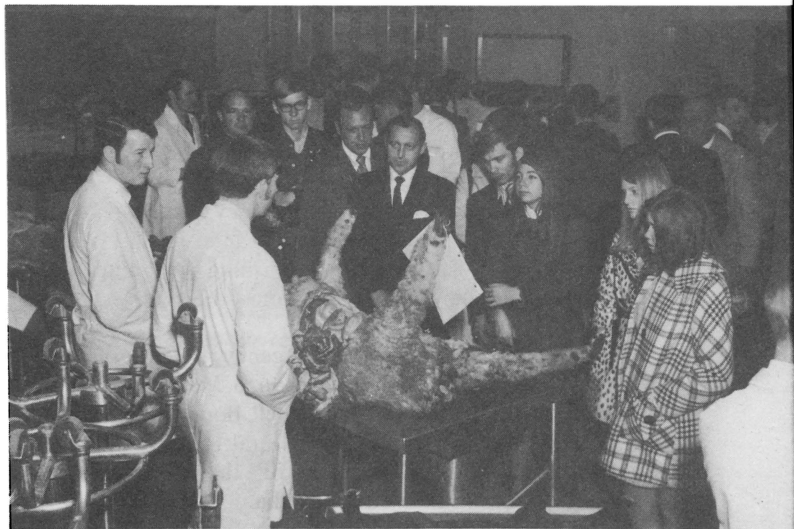
Coordinated by Dr. William McCulloch, director of continuing education for veterinary medicine, a program that included a movie was opened by John Cuneio, president of the A.V.M.A. student chapter.

Topics presented by fourth-year students were: "Preparation for Veterinary School," Fred Bendick; "Professional School," R. C. Ebert; "Veterinarians in Public Service," Steve Dixon; "Practice Specialties," Ed Peipergerdes; and from a feminine point of view, "Small Animal Practice," by Gabrielle Hoepfner.

An explanation of admissions and application procedure was presented by Dr. George Shelton, associate dean for academic affairs.

Since the group was too large to be accommodated in the Veterinary Hospital-Clinic auditorium at once, half were on walking tours of the veterinary campus during the oral presentations.

Exhibits were set up in Connaway Hall where the majority of basic sciences material is taught and in the Veterinary Hospital-Clinic where clinical procedures are presented. They ranged from a demonstration of canine EKG techniques to surgery on a horse with a severe wire cut.



A popular exhibit was this sheep and fetus. First and second year students manned the exhibits.

Dr. Marvin A. Snell, chairman of the M.V.M.A. Public Relations Committee, said "Missouri is the only state that sponsors a Career Day of this type."

"Our main purpose," he continued, "is to help the prospective student decide if he really wants to be a veterinarian so he may plan courses to fit him for a professional college's training. Naturally this day could not be possible without the whole-hearted cooperation of the University of Missouri faculty and student chapter of the A.V.M.A."

In addition to sharpening the interest of high school students, Career Day brings other rewards. Each year since the first Career Day in 1964, more practitioners have sponsored a larger number of visitors. News releases with pictures are distributed to students for their hometown newspapers which brings greater notice to the activities of the School of Veterinary Medicine and the M.V.M.A.

But best of all, alumni renew the faith of administrators. Without the interest and support of the practitioners Career Day could not be a success.



Visitors debark from Dr. Brown Hamer's Slater-based bus.

Congratulations

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Dr. Shelton Reviews India Trip

Extreme contrast—abject poor facing an affluent upper class with no evident middle class and highly-trained personnel such as veterinarians, dentists, engineers without jobs—was Dr. George Shelton's first observation about India upon his return from an AID-sponsored visit there.

Dr. Shelton is associate dean for academic affairs at the University of Missouri-Columbia School of Veterinary Medicine. Along with several other University faculty members he was asked to view and evaluate the Assam Agricultural University in Gauhati and Jorhat, Assam, India, with the intent of establishing an educational exchange contract between it and the University of Missouri.

Under the auspices of the Agency for International Development, Dr. Shelton; Dr. Alonzo Metcalf, executive assistant to the Chancellor; Dr. Schell Bodenhamer, associate dean of the College of Agricultural Extension and Dr. Raymond Schroeder, chairman of the department of horticulture, spent late winter in India.



This is an example of some of the village conditions Dr. Shelton photographed during his trip.

of veterinarians, but more in the capacity of national and state regulatory officials than as general practitioners.

"Cattle," he continued, "are valuable for their dairy products and draft purposes, but not food. Indian animal husbandry is poorly controlled. Consequently there are far too many cattle of very poor quality."

"When you talk to an Indian veterinarian about this situation, he will just shake his head. Along with their peripheral uses the cattle are so deeply tied to religion that the situation is practically untouchable.

"It's like our stand in Vietnam, Dr. Shelton said, "We know it's bad, but we're not quite sure how to handle it."

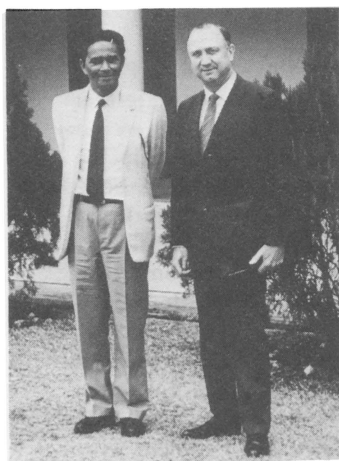
The Indian universities are attempting to educate their people yet Dr. Shelton saw this as an awkward predicament since jobs may not be waiting for them when they are graduated. Government posts are filled and private practice is almost unheard of.

"Some students approached us while we were at Assam seeking information about graduate school here, entrance requirements, scholarships, housing and programs. But many Indians, when exposed to a more advanced culture, do not want to return to their country."

To Dr. Shelton, India presented a land of complex contradictions. It is trying to compete on the educational level of Western nations, yet does not have adequate constructive positions in which to place her graduates.

The economic conditions in which extreme wealth exists next to "the most abject poverty the human mind can fathom" precludes a leveling situation.

In West Bengal (Calcutta) where Dr. Shelton first entered the country, he observed that many shops were closed and industry seemed limited. "The people were not unfriendly to the Americans, but one can feel a discontent with their present way of life. The country seems to be in a transitory state and at present there is no place in such a culture for the veterinarian as we know him."



Dr. Shelton visited with Dean Hazerika of the Assam Agricultural University College of Veterinary Science during his trip to Assam, India.

Dr. Shelton was primarily interested in activities of the Assam University School of Veterinary Medicine which is located some distance from the main university. He was to view faculty, research, curriculum and other related areas.

"There is little veterinary practice except government employment" Dr. Shelton observed. "Oh, we saw one private place in Calcutta, but it didn't appear to be very progressive." "People are so concerned with making ends meet day to day that there is little left to support companion animals."

"The Indian government is more concerned with controlling the dread diseases—hoof and mouth or rinderpest—and maintaining herd health than caring for individual animals." The situation seems somewhat comparable to the United States about 1910", Dr. Shelton said.

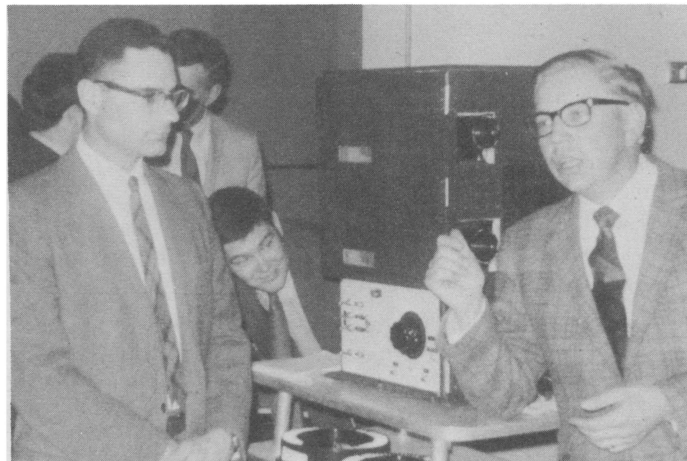
In India there is an over-abundance of some types of skilled personnel, such as scientists, dentists and veterinarians. The government employs the greatest number

Upjohn Lecture Presented Taven Addresses Dinner

Two entertaining speakers were highlights of the annual Upjohn Lecture and the faculty and senior student dinner held March 26.

Dr. Lauderdale, a Ph.D. graduate of the University of Wisconsin with training in endocrinology and reproductive physiology, spoke on "Postpartum Physiology." It concerned a study of normal processes in animals following parturition. He especially discussed variables affecting bovine reproductive rates.

Stereophonic sound tracts and slides illustrated Dr. Taven's talk "So Little of the Forest's Charm is Left in the Mushroom Soup." An environmental presentation, Dr. Taven urged his listeners to take time to enjoy nature now for the future "...promises a nightmare world of steel and concrete, of algae steaks and yeast pies...flower-less, animal-less and lifeless."



Dr. Taven discusses his lecture with students following the dinner. (Photo by Dr. J. D. Rhoades)

Dr. Lauderdale spoke during the afternoon while Dr. Taven was keynote speaker at the annual dinner.

Nine Present Papers At AALAS Meeting

Nine faculty members from the University of Missouri-Columbia School of Veterinary Medicine were featured speakers during the Fifth Annual Tri-branch Meeting of the American Association for Laboratory Animal Science.

Held Saturday, April 4 at the Plaza Inn, Kansas City, Missouri, the meeting brought together the Iowa, Kansas City and St. Louis branches of the organization.

Speaking at the meeting were Dr. Ronald E. Flatt,

associate professor of veterinary pathology, on "Crystallin Material in Rabbit Kidneys and Rabbit Urine;" Dr. N. M. Patton, research associate in veterinary pathology and laboratory animal medicine, on "Spontaneous Periodontal Disease in the Least Shrew;" Dr. Jack L. Taylor, research associate in veterinary medicine and surgery area of laboratory animal medicine, on "Mineralizing Lesions in Guinea Pigs."

Dr. W. H. Halliwell, research associate in veterinary pathology, spoke on "Culture and Identification of *Mycoplasma pulmonis* and Some Associate Murine Pathogens" while Mr. Dwight R. Owens, research associate in veterinary microbiology and at the Veterinary Medical Diagnostic Laboratory, presented "The Microbial World of a Guinea Pig Facility."

Presenting a session on animal techniques, Dr. M. E. Tumbleson, associate professor of veterinary physiology and pharmacology and research associate at the Sinclair Research Farm, spoke on "Manipulation of Miniature Swine for Experimental Protocols."

Dr. Reed W. Rings, research associate in veterinary medicine and surgery, presented "Personnel Management, Motivators and Leadership Styles." Dr. D. P. Hutcheson, biostatistician at the Sinclair Research Farm and instructor in veterinary physiology and pharmacology presented "A Data Storage and Retrieval System for a Research Laboratory," and Dr. S. Jackson, research associate in veterinary pathology spoke on "Proliferative Ileitis in the Syrian Hamster: A Case Report."

The Kansas City branch of AALAS extended a special thank-you to the staff of the School of Veterinary Medicine Research Animal Diagnostic Laboratory for assistance in preparing the program.

Journalist Wins Award

Miss Jill Southworth, information specialist for the UMC School of Veterinary Medicine, recently became the first person in Missouri ever to receive the Claude Bernard Science Journalism Award.



The annual honor is given by the National Society for Medical Research, Washington, D. C., for "responsible science reporting..." It is named for Dr. Claude Bernard, a nineteenth century French physiologist who is often called "father of modern experimental medicine."

*Miss Southworth's article deals with the *Mystromys albicaudatus*, a laboratory animal much like the hamster which developed spontaneous diabetes. Research on the subject is being conducted by Dr. Keith Kraner, University Director of Laboratory Animal Resources and professor of veterinary medicine and surgery, and Dr. Robert Stuhlman, research associate in veterinary medicine and surgery.*

—About the Faculty—

Attending dermatology seminars in Denver, Colo., *Dr. Thomas M. Eagle*, associate professor of medicine and surgery, was at the American Animal Hospital Association meeting April 10-18.

Dr. L. C. Murphy, associate dean for research development, was in Pittsburgh, Pa., April 22-24 for an NIH site visit at the university there.

Exhibiting "Diseases of the Eye," *Dr. H. E. Jensen*, research associate in veterinary medicine and surgery, presented a stereophonic slide exhibit at the AHHH meeting April 11-18 in Denver, Colo.

Dr. C. J. Bierschwal, professor of veterinary medicine and surgery, gave a seminar on "Breeding Soundness of the Bull" and "Problems of Infertility in the Cow." March 18-21 in East Lansing, Mich. He also presented "Veterinary Medicine in the Netherlands" to two Missouri groups in April. He was at the De Soto Southeast Missouri Veterinary Medical Association April 15, and the Chillicothe North Central VMA April 11.

Attending the International Academy of Pathology meeting March 11-13 in St. Louis were *Drs. Billy E. Hooper*, chairman and professor of veterinary pathology; *Stuart L. Nelson*, associate professor of veterinary pathology, and *Larry Cornelius*, research associate in veterinary medicine and surgery.

Dr. E. F. Ebert, professor of veterinary medicine and surgery, was in Philadelphia, Pa., March 17-20 preparing television tapes for the A.V.M.A.

Dr. A. A. Case, professor of veterinary medicine and surgery, attended seminars March 30-April 5 at the University of Florida, University of Southern Florida and the Florida Diagnostic Station.

Dr. D. Jesse Wagstaff, assistant professor of veterinary physiology and pharmacology, was in Atlanta, Ga., March 15-20 to present a paper at a meeting of the Society of Toxicology. His presentation was entitled "Dieldrin-DDT Interaction in Guinea Pigs."

The Federation of American Societies for Experimental Biology meetings held April 13-18 in Atlantic City, N. J. drew five members from the School. *Drs. Raymond L. Loan*, chairman and professor of veterinary microbiology; *Gerald Buening*, assistant professor of veterinary microbiology; *D. A. Schmidt*, professor of veterinary pathology; *J. L. Taylor*, research associate in veterinary medicine and surgery and *Badi Boulos*, assistant professor of veterinary physiology and pharmacology and pharmacology. Dr. Buening and Dr. Boulos presented papers.

Dr. F. W. Clayton, professor of veterinary microbiology and Deputy Director of the Missouri Regional Medical Program Computer Fact Bank, recently attended the Annual Meeting of the Clinical Society of the U. S. Public Health Service. The March 31-April 3 meeting was held in conjunction with the Commissioned Officers Association meeting.

Faculty Members Attend Meetings

The American Association of Anatomists, the Nomina Anatomica Nomenclature Committee Meeting and the Cajal Club gatherings took five faculty members to Chicago in the early part of April.

Dr. Roger E. Brown, associate professor of veterinary medicine and surgery, conferred with veterinary anatomists on audiotutorial programs and comprehensive examinations at the AAA meeting.

Other School faculty members in attendance were, *Drs. D. D. Draper*, instructor in veterinary anatomy; *James E. Breazile*, professor and chairman of veterinary anatomy; *H.-D. Dellmann*, professor of veterinary anatomy and research associate at the Space Sciences Research Center; and *Dr. Josef Frewein*, associate professor of veterinary anatomy.

Dr. Frewein also presented seminars on anatomy at the University of Saskatchewan, Saskatoon, Canada. They were "Applied Anatomy of the Forelimb in the Cow." "Surgical Anatomy of the Head and Neck in the Dog."

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Scanner model	OS 15000
Scanning system software	Omni scan v. 12.4 SR4 (1947) 64-bit
Optical resolution	600 dpi
Color settings	covers in 24 bit color; text in 8 bit grayscale
File types	tiff

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