1949

Divisional News

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MARRIAGES

Mr. Robert E. Hall, V.M. 3, of Sioux City, Iowa and Miss Kathryn Tokheim of Jewell, Iowa were married March 20, 1949, at the Lutheran Church in Jewell, Iowa.

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BIRTHS

A daughter, Sharon Lee, to Mr. and Mrs. Norman Hesse, at Mary Greeley hospital, Ames, Iowa, Dec. 28, 1948. Mr. Hesse is a V.M. 1.

A daughter, Janice Lee, to Mr. and Mrs. Gene Whitford at Iowa Methodist hospital, Des Moines, Iowa, Jan. 1, 1949. Mr. Whitford is a V.M. 1.

A son, Barry James, to Mr. and Mrs. John Baker, at Mary Greeley hospital, Ames, Iowa, Feb. 11, 1949. Mr. Baker is a V.M. 1.

A son, Keith Allen, to Mr. and Mrs. Glenn I. Luymes on March 25, 1949, at Mary Greeley hospital in Ames, Iowa.

A daughter, Claudia, to Mr. and Mrs. James Cecil on March 29, 1949, at Mary Greeley hospital in Ames, Iowa.

FACULTY

Dean H. D. Bergman, dean of the Division of Veterinary Medicine at Iowa State College, attended a meeting of the Division of Medical Sciences of the National Research Council in Washington, D.C. on April 30, 1949. Dean Bergman is the official representative of the A.V.M.A. to the Division of Medical Sciences. The term of appointment is three years and reappointment is not permitted. Dean Bergman's term expires in 1950.

Dr. M. A. Emmerson attended the meeting of the American Hospital Association at the Edgewater Beach Hotel, in Chicago, Ill. He discussed “X-Ray Therapy of Small Domestic Animals” and also conducted a demonstration of radiological equipment and technique.

Dr. H. L. Foust, head of the Department of Anatomy, attended a meeting of the American Association of Anatomists at Temple University, Philadelphia, Pa., April 13, 14, and 15, 1949. Other members of the anatomy staff attending the meeting were Dr. R. Getty, Dr. F. K. Ramsey and Dr. R. O. Rydell.

Dean H. D. Bergman attended the annual meeting of the American Animal Hospital Association held at the Edgewater Beach Hotel in Chicago, Ill., on May 5-7, 1949.
Dean H. D. Bergman attended a meeting of the Executive Committee of the Association of Land Grant Colleges and Universities in Washington, D.C. on May 2 and 3, 1949. Dr. Bergman represents the Division of Veterinary Medicine of the Land Grant Association on the Executive Committee. Plans were discussed and program arranged for the annual meeting of the Land Grant Association in Kansas City, Mo., on Oct. 23-27, 1949. While in Washington, the Committee attended a luncheon meeting arranged by the Secretary of Agriculture, Charles F. Brannan, in his office.

Dr. R. Getty, of the Department of Anatomy, presented a paper entitled "The Localization of Alkaline and Acid Phosphatase in Normal and Telangiectatic Bovine Livers, and in Livers Exhibiting a Focal Hepatitis (sawdust bovine livers)," at the meeting of the American Association of Anatomists at Temple University, Philadelphia, Pa.

Dr. I. A. Merchant, head of the Department of Bacteriology, spoke at a combined meeting of the Woodbury County Medical Society and the Tri-State Veterinary Medical Association at Sioux City, Iowa, March 10, 1949, on the subject "Epidemiology and Public Health Relationships of Brucellosis."

Dr. D. A. Smith, of the Department of Medicine, attended a meeting of the American Animal Hospital Association at the Edgewater Beach Hotel in Chicago, Ill. May 5-7, 1949. June 4-11, Dr. Smith will attend a convention of veterinarians at Auburn, Ala. This is a meeting of instructors from the many veterinary schools in the nation. Dr. Smith will speak on techniques employed in the Iowa State College Clinic, especially the method of bone pinning that is used in the correction of fractures in small animals.

Dr. Hilton A. Smith, Colo. '28, an associate professor in the Department of Pathology for the past six years, will leave Iowa State College at the end of the present term to head of the Department of Pathology in the School of Veterinary Medicine at Texas A & M.

Between the Winter and Spring quarters, Dr. Smith spent a short tour of duty in Washington, D.C. as consultant pathologist for the Army Institute of Pathology. This Institute further trains Army Veterinarians in particular diagnostic problems. Two hundred and forty-two doctors, technicians, and administrators make up the staff of the Institute, of which about 40 are permanently assigned pathologists. The Institute has the most extensive collection of pathological material in the world. The Veterinary Division of the Institute was initiated several years ago and carries out the work of the American Registry of Veterinary Pathologists under the supervision of the A.V.M.A., and also provides training in pathology for graduate veterinarians.

Dr. A. W. Monlux, I.S.C. '42, is at present doing graduate work at the Institute.

Dr. M. A. Emmerson, head of the Department of Obstetrics, attended the meeting of the Ralston Purina Fellowship Committee in St. Louis, Mo., on March 28, 1949, as the official representative of the A.V.M.A. The Ralston-Purina Co. annually awards several fellowships, two each to students of animal husbandry, poultry husbandry, and dairy husbandry, and one to a student of veterinary medicine. The committee reviewed 38 applications, but Dr. Emmerson is very sorry to report that there were no applications for the Fellowship in Veterinary Medicine. He wishes to express his desire for applicants for this fellowship at a later date to avoid embarrassment to representatives that follow him.

On April 20, 1949, Dr. Emmerson spoke to the Northwest Iowa Veterinary Medicine Association at Sheldon, Iowa, on the subject "Bovine Sterility." He illustrated his lecture with lantern slides.

The Veterinary Student
Dr. E. A. Hewitt, of the Department of Physiology, attended the Federation of Societies for Experimental Biology held in Detroit, Mich., April 18-22, 1949.

Dr. J. C. Picken Jr. and Dr. C. D. Lee, both of the Research Institute staff, attended the North Central Iowa Veterinary Medical Association meeting held in Fort Dodge, Iowa, on April 21, 1949.

Dr. G. R. Fowler, head of the Department of Surgery, attended a meeting of the Iowa Academy of Science, at Des Moines, Iowa on April 16, 1949, where he discussed a paper, “Periodic Ophthalmia in the Horse.”

Dr. E. A. Benbrook, head of the Departments of Pathology and Parasitology, attended the monthly meeting of the Central Iowa Veterinary Association on April 18, 1949, and spoke on “Diagnosis with Special Reference to Parasitism.”

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JR. A.V.M.A.

Through the efforts of the speakers committee the meetings have continued to carry programs of great interest and instructional value.

Dr. Harold Gunderson, of the Department of Entomology, spoke to the Chapter on Livestock Insect Control at a meeting on March 9, 1949. Dr. George Fowler presented awards to the staff members of The Veterinary Student. The Jr. A.V.M.A. voted to sponsor an “Iowa State Veterinary Alumni Homecoming and Reunion.”

On March 25, 1949, Dr. J. H. Steele, Head of the Veterinary Division of the U. S. Public Health Service, spoke on “Infectious Diseases Communicable to Man.” Dr. E. R. Price spoke briefly on “Equine Encephalomyelitis and Its Relationship to Man.”

On March 30, 1949, Dr. I. H. Borts, Director of the State Hygenic Laboratory at Iowa City, Iowa, discussed “Human Rabies.” He illustrated his speech with a film of a child showing typical symptoms of rabies. In the business meeting that followed the Chapter voted that the name of the “Veterinary Student” be changed to “Iowa State College Veterinarian.”

The main speaker of the evening on April 20, 1949, was Dr. P. V. Neuzil, a practitioner from Blairstown, Iowa. He spoke of the development of poultry practice from the potential practice offered to a general practitioner. Nominations of officers for the next year followed in the business meeting.

On May 18, 1949, the Chapter will hold the last meeting of the school year. The election of officers will be held and the new president, Keith Geise, will be seated.

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GENERAL NEWS

Several members of the Veterinary Division were honored when they were initiated into Alpha Zeta, Agricultural Honorary Fraternity. The honored were: Sanford Wilson, Richard Williams, Stanley King, Guy Flater and Donald Wiersig, all of the Class of 1949; and Walter Campbell, John Edenburn, Thomas Weatherly, and Leland Allenstein of the Class of 1950.

John J. Edenburn, V.M. 3, was elected Student Body President April 13, 1949.

Rollin J. Cowles, V.M. 3, was awarded second place in the Moss essay contest sponsored by the American Animal Hospital Association. He attended the meeting of that group in Chicago, Ill., where he read his paper as a part of the program. His essay appears elsewhere in this issue. Cowles is president of the Iowa State Student Chapter of the Jr. A.V.M.A.
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**New Book**

**Bob Vincent, Veterinarian**, written by Edna H. Evans and published by E. P. Dutton and Co. Inc., New York is a exciting, suspense-filled story of young Bob Vincent who works for a veterinarian several summers and later enters the school of Veterinary Medicine.

The simple love story and the boy’s great interest in animals are most appealing to the teen-ager, and is excellent fiction for children of the 6th grade and above.

This is a book which veterinarians should recommend for school libraries to strengthen the much needed education program for the veterinary profession.

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**“X” Disease Mortality**

The mortality of “X” disease appears to be the greatest in young calves and may destroy the entire calf crop. In calves under 6 months the mortality may reach 75-80 percent. In older calves the mortality usually varies between 50-60 percent. In adult cattle the losses are from 10-35 percent depending upon the severity of the particular outbreak.

A pig well born is a pig half weaned; the 1½ lb. pig is a poor risk; the pig that weighs 2½ lb. at birth is an excellent risk.

“X” disease is known to be present in 37 states at this time.

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**Diethylstilbestrol**

Veterinarians at the Veterinary School of the University of Ghent (Belgium) applied 1 percent diethylstilbestrol ointment to the udders of six pregnant mares that were known to have given little or no milk at the previous parturition. Two to 3 Gms. of the ointment were applied daily beginning 12 days before the date of expected parturition and continued until birth of the foal. Satisfactory secretion of milk resulted in all cases.
What the Veterinary Profession Means to Mankind

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Thousands of dollars are wasted each year and countless farm animals lost by purchase of nostrums or remedies which are of no value. Why waste this money on YOUR farm? Never purchase remedies or alleged "cures" for livestock or poultry diseases unless you are SURE that such products are scientifically sound, and sold in full compliance with federal and state pure food and drug laws. Don't spend hard-earned money for vaccines, serums or other biological products unless you are sure they fit a specific need. So many animal diseases look alike. The wrong treatment may mean DEATH instead of LIFE. When in doubt, get the advice of your local veterinarian. It will probably cost much less than wasted remedies and dead livestock.

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Summer, 1949
Opportunities in Calif.

California State Division of Animal Industry offers excellent opportunities for careers in veterinary medicine under civil service merit system to graduates of recognized veterinary colleges. The entrance salary is $358 and increases are made in steps of $376, $395, $415, and $436. California residence requirement is waived and the examination will be given nationwide. Minimum qualifications for the examination are graduation with a Doctor's Degree in veterinary medicine from an institution of recognized standing. Registration in such an institution in the academic year in which the degree will be granted will admit applicants to the examination, but they must produce evidence of possession of the required degree before they can be considered eligible for certification from the employment list.

At this time, vacancies exist for veterinarians in three main types of work. In the animal disease field, special attention is given to maintenance of gains made in reduction of bovine tuberculosis. There is a large variety of animal and poultry disease problems in the State and opportunities to make observations and engage in control programs that permit obtaining desirable experience. The State has four diagnostic laboratories and present plans include considerable expansion in this service. California's meat inspection system is recognized as the outstanding state system in the nation. Work is conducted under regulations similar to those of Federal meat inspection.

The field work for which an automobile is provided by the State includes conducting tests and making inspections and investigations in connection with livestock and poultry disease control; instituting control and eradication procedures in connection with diseases including the making of post-mortem examinations, the issuance of quarantines and the determination of the most economical and practical methods to be used; inspecting livestock at stockyards and ports of entry for evidence of disease; maintaining cooperative relations with the industry and employees of other governmental jurisdictions and keeping records and preparing reports.

The meat inspection work comprises the supervising of the slaughtering of animals at meat-packing establishments, the curing, packing, processing, branding, labeling, and transportation of meat and meat products; making inspection in regard to the sanitary condition of plants and its employees; conducting ante-mortem and post-mortem inspection of animals to determine their fitness for food; overseeing the destruction of condemned meats and products thereof; maintaining cooperative relations with those contacted in the course of the work, and keeping records and preparing reports.

Veterinarians in the laboratory work assist with the technical work involved in the determination and cause and nature of livestock and poultry diseases; make laboratory diagnosis including examination of live and dead animals; make gross examinations of tissues and organs; isolate, cultivate and identify the causative agents; prepare and examine pathological specimens; inoculate and examine test animals; conduct serological tests, and keep records and prepare reports.

Salary Increases

Under civil service, salary increases are granted each year until the maximum is reached, provided the employee has a satisfactory service record. Sick leave with pay is granted at the rate of twelve days per year and may accumulate. Fifteen days per year vacation leave is given permanent employees. Retirement benefits are generous, being financed jointly by contributions from the employee and the State.

Final filing date is June 25 for the mid-July examination for the position of Veterinarian. Those interested should secure application forms from the State Personnel Board, 1015 L Street, Sacramento, California.
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Sulfathiazole powder & tablets
Sulfa Urea boltabs
Sulfamerazine tablets
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Summer, 1949
Zinc

The role of zinc in animal nutrition is obscure. It is thought to function as a constituent of one or more enzymes. It seems to be a constituent of insulin, secreted by the pancreas. A deficiency of zinc has never been observed on any type of practical ration and it seems extremely unlikely that it will ever occur due to the minute amounts required.

Based upon benefits derived from the chaulmoogra oil in pellagra cases complicated with hypertrophic arthritis, the results obtained in 350 cases of various types of arthritis are described as "truly astonishing." In view of the prevalence of hypertrophic arthritis of unknown cause in horses, this chemotherapy is, at least, interesting.

There are indications that streptomycin may be effective in the local treatment of certain eye infections, such as chronic conjunctivitis.

Milking Machines

According to the Census Bureau there were 365,000 milking machines on the nation’s farms in 1945. When improperly operated a milking machine may be a potent factor in causing a high incidence of mastitis in a herd. Properly operated it improves the quality of milk over that produced by any but expert hand milking, now a lost art in many sections.

Mineral Percentage

Chemical analyses show that mineral elements comprise around 4 percent of the total body weight of animals. The actual percentage in a given animal varies slightly with the species, period of life cycle, fatness and degree of hydration but normally will not be far from the average 4 percent.

The medicinal treatment for swine erysipelas infection in turkeys recommended by the U.S.B.A.I. is the injection of penicillin into the wattles.

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**Swine Encephalomyelitis**

Porcine virus encephalomyelitis is taking a high toll of pigs in Europe. Thus far, the disease has not been detected in the United States, but, on the European continent, it is considered a major threat to Europe's pork supplies.

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**Tyrothricin**

The use of tyrothricin to purify smallpox vaccine suggests its use in that role for other virus vaccines capable of containing bacterial contaminants. The laboratory technique (J. Am. M.A. Sept. 6, 1947) was developed by the virus division of Oswaldo Cruz Institute, Rio de Janeiro.

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**Sodium Fluoride**

In the treatment of roundworm infestation in pigs, sodium fluoride was given in slops, garbage and milk with poor result. The standard method, 1 percent of sodium fluoride mixed with dry ground feed is recommended for safety and efficiency.

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**Brucellosis**

Brucellosis can be transmitted through the air, it is revealed in the Journal of Infectious Diseases (8, '48). The investigators said that man can probably be infected by the air route as well as animals though this remains to be proved by definite evidence.

From 1 to 3 percent of the swine slaughtered in our packing houses have brucellosis. Sometimes this disease does no harm and causes no economic loss; sometimes it destroys all chance of profit from the herd.

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