

Vet School Team Detects Most Feared Horse Disease

Many miles and about four states separate the communities of Bowie, Maryland, and College Station. Yet, their paths have crossed.

Their common denominator is a horse disease known as equine infectious anemia, or swamp fever.

Bowie is the site of a major race track, and the Texas A&M College of Veterinary Medicine has developed a reliable test for the ailment.

On Jan. 22, Bowie race officials quarantined a barn full of horses when several suspected swamp fever cases turned up. Five blood samples were flown to A&M, two of which tested positive and another showed clinical signs.

Swamp fever is one of the most dreaded of horse diseases, especially among Thoroughbreds. There is no known cure, and reactors are usually destroyed because the disease is so easily transmitted to other animals.

Maryland's director of the State Livestock Sanitation Service said the Jan. 22 incident was the first known outbreak of the sickness in that state.

Major swamp fever occurrences in the past 18 months have been reported in Kansas, Oklahoma, South Dakota, Illinois and North Carolina. Small outbreaks have occurred in Florida and Kentucky.

Dr. R. W. Moore, A&M associate professor of veterinary microbiology and one of the test developers, said the disease is most often "man-caused." That is, it is transmitted by use of contaminated needles and syringes when horses are vaccinated or treated for other ailments.

"So far, we have investigated six major swamp fever outbreaks in the United States, and we found that all of them were caused by misuse of syringes or transfusion of blood," Dr. Moore said.

Other carriers are biting insects, such as horseflies and mosquitoes.

The veterinarian said swamp fever is virus-caused and hits the animal in seven to nine-day cycles. It is characterized by depression, congested mucous

membranes and swelling of legs in the stomach area.

Individual cases run from the acute types that usually end in death after several fever cycles, to the chronic type which leaves the horse weak and almost useless for the rest of its life. Carrier horses may show no outward signs.

A&M's infectious anemia test is described by Dr. Moore as about

90 percent accurate. His associates in developing the technique are Dr. H. E. Redmond, professor of veterinary medicine and surgery, and Dr. C. W. Livingston, assistant professor of veterinary microbiology.

Dr. Moore says they have batted 1,000 on testing so far, meaning that of those horses testing as positive reactors, all eventually came down with the disease.

— Job Calls —

MONDAY

U. S. Civil Service Commission, Farmers Home Administration for all majors in agriculture.

Monsanto Company for chemical engineering, chemistry, electrical engineering, industrial engineering, mechanical engineering, agricultural economics.

The Upjohn Company for agricultural education, animal husbandry, animal science, biology, zoology, business administration, marketing.

Sinclair-Koppers Co. for chemical engineering, civil engineering, electrical engineering, mechanical engineering.

U. S. Civil Service Commission, Social Security Administration for accounting, aerospace engineering, architecture, biology, chemistry, civil engineering, electrical engineering, industrial engineering, mechanical engineering, range management, math, physics, soil and crop sciences, sociology, education and psychology, industrial education, physical education, agricultural economics, finance.

MONDAY AND TUESDAY

American Oil Company for chemical engineering, civil engineering, mechanical engineering.

The Atlantic Refining Company for geology, chemical engineering, electrical engineering, industrial engineering, mechanical engineering, petroleum engineering, computer science, geophysics, physics, accounting.

Soil Conservation Service, USDA, for agronomy, agricultural economics, agricultural education, agricultural engineering, animal science, range manage-

ment, soils, plant and soil sciences, wildlife management.

U. S. Civil Service Commission; Internal Revenue Service for accounting.

Red River Army Depot for civil engineering, industrial engineering, mechanical engineering.

Consumer and Marketing Service for accounting, agricultural economics, marketing, agronomy, veterinarians.

Federal Housing Administration for agricultural economics, business administration, finance, economics.

General Services Administration for electrical engineering, industrial engineering, industrial technology, mechanical engineering, business administration.

TUESDAY

Dowell for civil engineering, geological engineering, geology, geophysics, industrial education, industrial engineering, mechanical engineering, petroleum engineering.

The Shamrock Oil and Gas Corp. for chemical engineering, mechanical engineering, petroleum engineering.

U. S. Army Material Command for aerospace engineering, chemical engineering, electrical engineering, industrial engineering, mechanical engineering, chemistry, biochemistry, math, physics, entomology, biology.

TUESDAY, WEDNESDAY AND THURSDAY

The Proctor and Gamble Co. for chemical engineering, chemistry, civil engineering, electrical engineering, industrial engineering, mechanical engineering.

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Exhibit Program

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- Office of Naval Research
- Naval Research Laboratory
- Texas Instruments, Inc.
- Naval Oceanographic Office
- Office of the Chief of Naval Operations
- Brown & Root, Inc.
- General Dynamics Corporation
- Naval Ordnance Laboratory
- American Society for Oceanography
- Marine Technology Society
- Commercial Engineering Corp.
- U. S. Divers Corp.
- Texas A&M University, Dept. of Oceanography
- Westinghouse Electric Co., Deepstar Office
- General Electric Co.
- U. S. Navy Bureau of Ships
- Southwest Research Lab
- U. S. Geological Survey and

From the Sea-Arama in Galveston a live PORPOISE will be on exhibit in the lower level of the Memorial Student Center.

All exhibits are in the Memorial Student Center and are open free to the public.

Speaker Program

Cmdr. Scott Carpenter, USN
The World's Only Astronaut-Aquanaut, of Sea Lab II Fame.
Monday, February 7
Guian Hall, Texas A&M Campus
8:00 P. M.



Rear Admiral O. D. Waters, Jr., USN
Oceanographer of the Navy.
Wednesday, February 9
Ballroom, Memorial Student Center
8:00 P. M.

Dr. Sam Ridgway, D.V.M.
Veterinarian for Tuffy, the porpoise used in Sea Lab II experiments.
1960 Texas A&M graduate
Thursday, February 10
Ballroom, Memorial Student Center
8:00 P. M.

Movie Schedule

MONDAY, FEBRUARY 7

8:10 A. M.—Fountain Room—"Sea Lab I"—The story of the Navy's first man in the sea program narrated by Jackie Cooper. This film describes the undersea operations near Bermuda where a crew of men lived on the floor of the ocean at a depth of over 100 feet for several days.

1:10 P. M.—Fountain Room—"Oceanography, Science for Survival"—Cannes Film Festival winner. This film traces the importance of our nation's programs in "inner space" and deals with the defense aspects, resources, and the commercial promise of the world ocean. The film features a brief comment by the late President Kennedy on this subject.

4:10 P. M.—Ballroom—"Careers in Oceanography"—Just released, this film presents an up-to-date picture of the career opportunities in the fields of ocean sciences and technology. This is the Texas premiere for this film.

TUESDAY, FEBRUARY 8

9:10 A. M.—Fountain Room—"Goblin on the Doorstep"—This title refers to the submarine threat to our nation posed by today's sophisticated nuclear powered submarines. The film is the realistic story of a typical Navy practice anti-submarine exercise in which the "enemy" submarine is played by one of our nuclear subs.

2:10 P. M.—Fountain Room—"The International Indian Ocean Expedition"—Film produced by the National Science Foundation. This is the story of one of the largest cooperative oceanographic expeditions ever initiated. The Indian Ocean Expedition consisted of over 200 scientists from 23 nations who worked in the Indian Ocean, the last unexplored ocean in the world. A wide range of activities are portrayed in this film including some excellent color underwater shots.

4:10 P. M.—Ballroom—"The Diving Saucer"—This presentation will be narrated by a representative from Westinghouse Corporation on the west coast operations of the Westinghouse/Cousteau Diving Saucer. This small submersible achieved fame in the pages of National Geographic Magazine over the past few years on its expeditions in Europe with its inventor, Captain Jacques Cousteau. The Westinghouse Corporation, which manages this project in the United States, brought the Saucer to the United States in 1964 for a year of operations off the

coast of California and Mexico. This film depicts various researches conducted during this time. Considerable underwater footage is included.

WEDNESDAY, FEBRUARY 9

10:10 A. M.—Fountain Room—"Food from the Sea"—This film traces the commercial production of seafood from the fisherman to the store shelf. Illustrated is the company's processing of tunafish. This is an excellent outline of how the ocean's food resources can be utilized.

3:10 P. M.—Fountain Room—"Conquest of the Deep"—This is the story of offshore oil exploration and how it is done.

4:10 P. M.—Ballroom—"Science of the Sea"—This film, produced by Woods Hole Oceanographic Institution, portrays the sea scientists on his platform, the oceanographic research vessel, and discusses the reasons for his work.

THURSDAY, FEBRUARY 10

11:10 A. M.—Fountain Room—"Key to the Deep"—Concerns robot and drilling and completing wells underwater. Approximately 10-15 minutes in length, color, sound.

3:10 P. M.—Fountain Room—"Sea Lab I"—Listed above.

4:10 P. M.—Ballroom—"Oceanography, Science for Survival"—Listed above.

FRIDAY, FEBRUARY 11

9:10 A. M.—Fountain Room—"Careers in Oceanography"—Listed above.

2:10 P. M.—Fountain Room—"Goblin on the Doorstep"—Listed above.

4:10 P. M.—Ballroom—"The International Indian Ocean Expedition"—Listed above.

SATURDAY, FEBRUARY 12

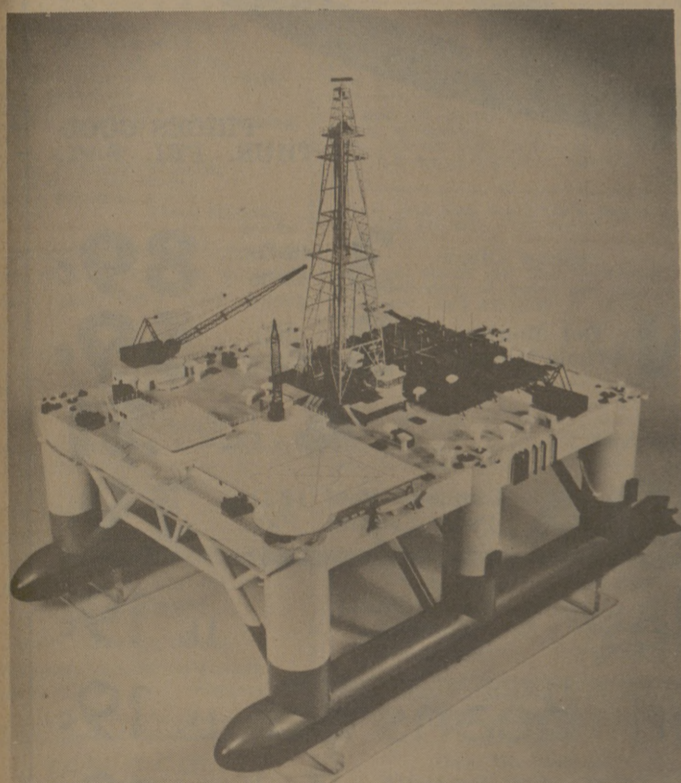
10:10 A. M.—Fountain Room—"The Diving Saucer"—Listed above.

1:10 P. M.—Fountain Room—"Food from the Sea"—Listed above.

4:10 P. M.—Ballroom—"Conquest of the Deep"—Listed above.

SUNDAY, FEBRUARY 13

2:10 P. M.—Ballroom—"Science of the Sea"—Listed above.



Brown & Root's Mohole Drilling Project



A Live Porpoise Will Be on Exhibit in the MSC, Lower Level

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