

A&M Prof Helps In Eclipse Study

Dr. John P. German, professor and research engineer in the Department of Electrical Engineering, will join University of Illinois researchers this week in the wilderness of Canada in an effort to study some effects of the July 20 eclipse of the sun.

He will be at Moose River, Ontario, a remote railroad siding on the Ontario Northland Railway 25 miles south of James Bay. According to a U. and I. press release this will be one of five such stations.

THE PROJECT is financed by a \$79,500 grant from the National Science Foundation. In charge is Professor George W. Swenson Jr., who holds appointments at Illinois in both astronomy and electrical engineering.

The scientists are interested in what happens to the ionosphere and especially its upper regions, 200 miles above the earth, when sunlight is quickly shut off.

Normally the cycle from light to dark and back takes 24 hours. The eclipse will produce the effect in 2 1/4 hours.

The U. of I. release said that the moon will perform a double role for the scientists. By shutting off the sun it will produce the eclipse and at the same time will serve as a radio mirror to reflect probing radio signals down through the darkened heavens.

THREE OF the stations will be in the path of the total eclipse, the Moose River camp where German

will work, one at Willbeach, another railroad siding in Canada, and the third at Northway, 250 miles southeast of Fairbanks in Alaska.

A fourth station will be in Pullman, Wash., to intercept signals reflected parallel to the earth's magnetic field. The fifth will be near Danville, Ill., where the eclipse will be 60 per cent of total.

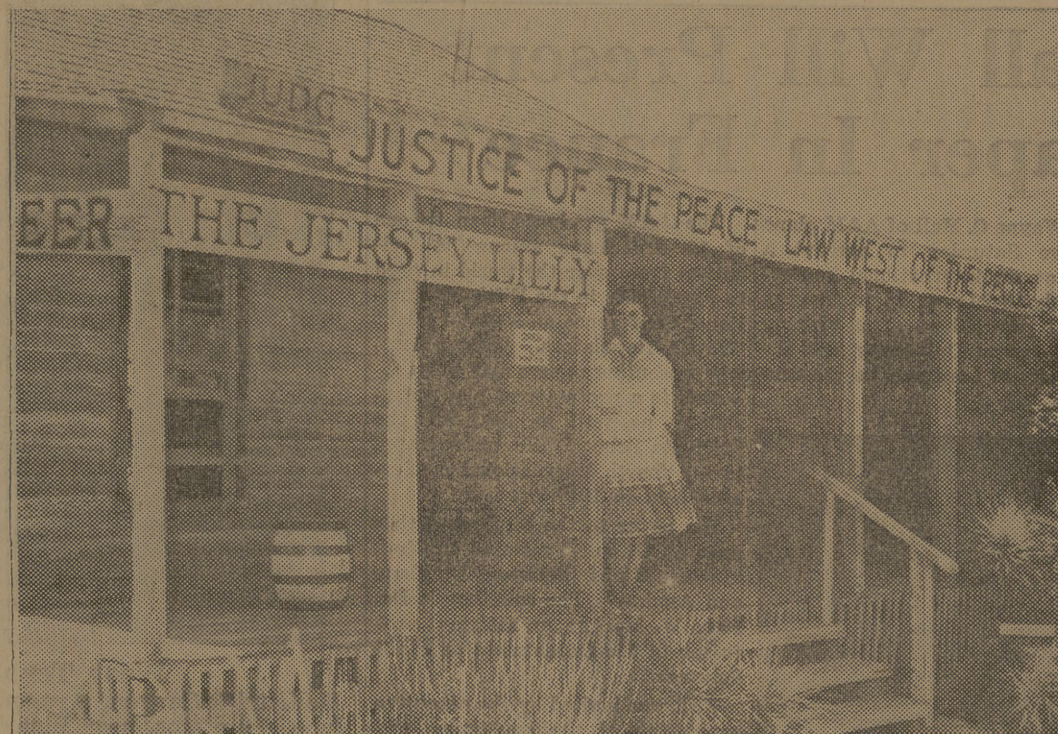
Men and equipment for the Alaskan and Canadian stations is to leave Urbana, Ill. late this week in two steel cabooses rented for the project from the Illinois Central Railroad.

Electronics will give the researchers an advantage over those planning visual observations of the eclipse. Clouds or rain will not interfere with radio signals, though a severe thunderstorm might.

THE SCIENTISTS will use polarizer radio signals, reflected from the moon, to measure the number and changes of electrons in the ionosphere.

The release said that all five stations will operate several days before and after July 20 for information to compare with the eclipse. German is not expected back at A&M until early in August.

A year of study may be required to interpret data collected. It may provide new insight into the day-night changes in the ionosphere which have direct effect on long distance radio communications.



Times Have Changed—West Of The Pecos
Doris Chamberlain, 29, Justice of the Peace mother of two sons is the 1963 version of the old Jersey Lilly Saloon at Langtry, where Judge Roy Bean ruled near the turn of the century. The attractive, blue-eyed



An Old Duck

This duck, hatched with four webbed feet, is a special attraction to Tim Ellinghuysen, 6, a Plainview, Minn. farm. The month-old bird came from the only egg that hatched in a 10-egg clutch on the Ellinghuysen farm. The duck, a mallard, waddles around like other ducks on its normal legs, the hind ones. (AP Wirephoto)

Poultry Science Staff Men Attend Mexican Dedication

J. H. Quisenberry, head of School of Veterinary Medicine. They were accompanied by Graduate Students Rolando Chavez and Manuel A. Zavala.

A representative of Mexico's Minister of Agriculture performed ribbon cutting ceremonies for the manufacturing plant. The symposium was held for poultrymen in the Monterrey and Saltillo areas.

After the dedication and symposium, Quisenberry traveled to Mexico City to assist Ignacio Deschamps, technical director of the Instituto Mexicano de Investigaciones Technologicas, with poultry research problems.

Cottonseed Products Lab Tests For New Chemicals

The cottonseed in the small sack looked like any other, but researchers on the A&M campus reserved comment until tests end.

The particular 20-pound sack of seed and other batches may come from growing areas halfway across America.

Determining if traces of a new

agricultural chemical are found in the seed is the object of the tests at the Cottonseed Products Research Laboratory.

"FOR MANY YEARS," Laboratory Director A. C. Wamble explained, "the laboratory has been processing these small lots of cot-

tonseed and other oilseeds for agricultural chemicals.

"The companies are interested in determining the amount and nature of residues of agricultural chemicals or other materials applied during growth or at harvest that show up in end-products and might be harmful to humans or animals."

The testing program is something of a sideline project of the laboratory, part of the Texas Engineering Experiment Station. The lab works in cooperation with the Cotton Research Committee of Texas.

"THE BASIC purpose of the laboratory is the development of new products and new uses for cottonseed, to develop new processing methods and improvements in old methods," Wamble said.

Any quantity of cottonseed or other oilseeds from a few grams up to several tons can be processed. The laboratory uses four methods of processing the seed.

Wamble said manufacturers and industrial agencies engaged in the development of new agricultural chemical compounds must have information on usefulness, toxicity, phytotoxicity and crop flavor alterations. They also must determine the safe level of use with respect to people, domestic animals and wildlife.

"THEY ALSO are responsible," Wamble said, "for producing standardized products, for correct labeling of these products, and for information and recommendations given to farmers by their field representatives."

The work at the laboratory on the A&M campus helps manufacturers gain vital information.

Testing of small lots of cottonseed and other oilseeds for agricultural chemicals residues has been done for 18 firms the last five years.



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