Mist-Matched Pair

Marshes' Army Surplus Tent May Help Drivers in a Fog

By BONNIE JONES

The fog, according to Carl Sandburg, comes in on little cat feet, but the Marshes' fog lives in an army surplus tent in their back yard.

What good is a tentfull of fog? Well, Charles Marsh, associate professor of electrical engineering, and his wife Elizabeth, have been doing research for about eight years on the fog that blinds drivers and causes many highway smash-ups.

Eastern turnpike authorities asked them to find out what kind of - car lights and street lights would best pierce the fog.

Using family teamwork they set up a testing tent in the back yard. Tow heads John, 13, Roger 12, and Ben 8 and pony-tailed Ann 10, shinnied up the poles to paint the top, while Mom and Dad built a floor-length one third size mock-up of a highway of masonite and covered it with asphalt. The road is complete with diagonal lines, overhead lights and speed limit signs.

The only vehicle on the fog-bound road is a simulated rear of a truck that moves back and forth on Ann's roller skates,

An observer can put himself in An observer can put missen in the driver's seat by looking into the tent through a glass window similar to a car windshield in front of which are lights like those on a car bumper.

To find out how much various types of lighting affect vision, Mrs. Marsh photographs the wispy fog. "I used to have trou-ble getting pictures printed be-fore I started developing them myself," she grinned. "They'd tell me that they'd tried and tried but just couldn't get the shadowy mist out of the pictures.'

To make artificial fog, the Marshes hook up an air compres-sor, the kind that inflates tires, to a garden hose. The air jets blow across a stream of water and split it into fog particles that fill the New Jersey turnpike. the tent in three minutes. More water can be added to create a denser fog,

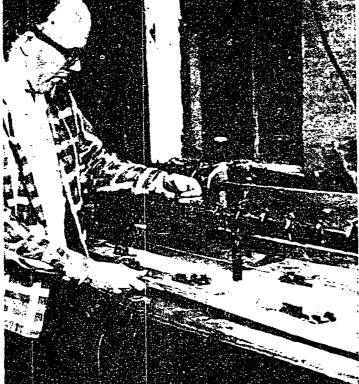
The Marshes' fog exactly dupli-cates natural fogs and what's more, inside the tent a light beam and photo cell can turn the ma-chine on or off to keep the fog constant.

"The lights on cars and high-ways today, although efficient in clear weather, produce nearly the worst possible light in foggy weather." Marsh said. It's like this he gestured, "ordinary street lamps light up the fog," which in turn scatters the light "so that the driver faces a brilliant white cloud."

Standard headlights, mounted slightly below eyelevel, "force the driver to look down the light beam into a blinding hot spot of light." Thus with ordinary light-ing much of the light smacks the driver in the face and blinds him

so he can't see the road and can discern other cars only faintly. The Marshes have devised a system they feel best improves vision in fog.

It consists of 300 watt lamp spotlights hanging overhead at 15-foot intervals. These send a narrow beam downward on the road at right angles to the flow of traffic. "This system lights up the road and not the driver."



IN HIS BASEMENT Marsh demonstrates a model of the fog lighting system he developed. It is now being installed on a stretch of



Glenn Terms 'Mono' 'Students' Plague'

Mononucleosis, a virus disease commonly known as "mono," could well be termed "the college students' plague."

The disease is extremely common among those between the ages of 18 and 24, said Dr. Herbert R. Glenn, director of the University Health Center. In fact, it's the most common

disease of that age group, he said. Mono was first noted by doctors; about 1925 in infants and small children. Since then it has shown a tendency to be more prevalent in late adolescence and early.

adulthood. Glenn said physicians do not know how the disease is transmitted. But he said the most likely means is by direct con-tact—by kissing and from eating utensils, for example.

Glenn also said the number of Bayard will discuss his collection cases among University students of American folk songs. varies greatly from month to: Dr. Frederick R. Matson, assis-month and from year to year tant dean for research and profes-"Last year we had very few cases: sor of archaeology, will speak this year we've had a great many. Wednesday on archaeology. He I don't have any explanation for will exhibit several specimens. That at all."

Mono is a virus disease affecting the lymphatic system (the tonsils, adenoids, and glands.) Early symptoms are tonsilitis and a swelling of the glands throughout the body.

days, but occasionally as long as institutions, will offer for the sec-three weeks, Glenn said.

confirmed by laboratory mood will also be presented in tests, and evidence that the virus toona station. is still present often can be found Superintendents of high schools for several weeks after apparent in central Pennsylvania have recovery been asked to encourage the for-

he said. "They don't help." Af-ter the victim recovers from the fever stage he should get lots of rest and should eat a large amount of starchy foods for four to six weeks, Glenn said.

But, he said, most cases don't recur after recovery is complete. WDFM Third Program "When vou've had it once. you've had it," he said.

Service Tests

G. William Henninger, profes-sor of music, will discuss the music of Bartok, using recorded illustrations at 7 p.m. Noel Coward's "Conversation Noel Coward's "Conversation Piece," a recorded play starring Novel Coward and Lily Pons, will available for registrants at the Dean of Men's office, 109 Old

Any selective service registrant who is a full-time college student and who has not previously taken the test may apply. The 3-hour examination will provide evidence for the use of local draft boards in considering deferment of a registrant from military service as a

Dean Will Host Show

Dr. Ben Euwema, dean of the College of the Liberal Arts, will host the University sponsored ing utensils, for example. "I don't subscribe to the theory television program "Penn State: that-mononucleosis is brought on Men and Ideas" next week to be by overwork and not enough presented from 9:50 to 10 a.m. ileep. Glenn said. He said this Monday. Wednesday and Friday common misconception probably over station WFBG-TV. Altoona. arose because victims of the dis-ease may "feel awful" for weeks before they actually get a fever Glenn also said the number of, Bayard will discuss his collection cases among University students of American folk songs.

European history, will discuss his 18-month stay in Finland and his visit to Russia on Friday's pro-gram. Forster has just returned from Finland where he was a Fulbright lecturer.

Then comes a period of fever, The University, with five other which generally lasts five to seven central Pennsylvania educational institutions, will offer for the sec-

to cover the fields of English, Diagnosis of mononucleosis is mathematics, and science which confirmed by laboratory blood will also be presented on the Al-

Glenn said there is no specific imation of summer listening treatment for the disease. "An-ti-biotics should not be given." It is series. this series. The program will consist of lec-

tures, demonstrations and discus-sions presented by outstanding faculty members of the cooperating institutions, Indiana State four to six weeks. Glenn said. Teachers College. Lock Haven He summed up mono's progress State Teachers College. Juniata as "slow in coming, an acute per-iod, and then slow in leaving." Mt. Aloysius College. But he said most acat derived.

To Offer Bartok Music

WDFM will offer two special features in its Third Program Sunday night. G. William Henninger, profes-



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Marsh says.

State troopers usually do a double-take when they first see the Marsh car. Resembling a gog gle-eyed monster it usually sports from six to eight headlights and four foglights which makes it

very handy for chasing up and down foggy hills. "Ordinary headlights should be turned off when you use fog lights," Marsh advised. "We found the most successful fog headlights chould be mounted headlights should be mounted low beneath the bumper if possible." Although these can get knocked off," he said, proper styling could make them retractable.

More practical, he said is a clear-lensed powerful spotlight at clear-lensed powerful spotlight at about bumper height equipped with polarized light filter that filters out a part of the light and a polarized windshield filter that rejects all light from fog particles. Another highway light the mist-matched pair have de-veloped is a 8-foot panel of 200 watt flourescent lights mounted low on the shoulder of the road

low on the shoulder of the road or on the middle strip of a divided highway. The driver



Daily Collegian PHOTOGRAPHER FOR the Foggy Duo, Mrs. Elizabeth Marsh poses in front of a moveable truck that travels the road in the fog tent.

looks across the beam, not along turnpike opposite the lower end, it and can even see speed limit of the Newark airport. It includes, signs clearly. 300 of the right angle spotlights As a result of the Marshes' ex- and 60 of the flourescent fixtures signs clearly.

periments one half mile of fog strung along a stretch of road lighting installation is now being where 40 per cent of the acci-completed on the New Jersey dents which occur are due to fog

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student.

Applications for the test must be filed by April 11.

Those who miss the May 1 test will have no opportunity this school year to make it up, according to the dean of men's office.

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