

# Freeway Drivers Subject of Study

Culver City, Calif. — Some traffic situations cause faster heart and respiration rates among motorists than astronauts experience at blastoff.

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A miniature package of electronic equipment designed by Hughes Aircraft Co. was developed to register heart rate, respiration and galvanic skin response (GSR).

"Comparing our data obtained on the freeways with official reports on the astronauts' condition shows that the average civilian cruising in 60-mile-an-hour congested traffic is likely to be more tense than a highly skilled astronaut cruising in his space capsule," said Robert M. DeHaven, manager of the Hughes Flight Test division.

**Nearing Panic**

Years of California freeway driving conditions a motorist to appear calm and stoic when if the truth were known, he is nearing panic.

John G. Appel, 41, a plant safety engineer for Hughes, was one civilian "guinea pig" used in the traffic experiments. He has been driving 14 miles on the freeways daily to and from work for the past three years.

"While driving in ordinary street traffic Appel's heart rate was a calm 79 and his GSR reading showed him to be relaxed and at ease," reported DeHaven.

"As he drove up the on-ramp, Appel's heart rate rose rapidly until it reached 111 beats per minute as he entered the heavy flow of traffic. At the same time his GSR peaked violently, showing a sharp rise in tension."

**Pulse Jumped**

The pulse rate GSR jumped every time Appel changed lanes, applied the brakes or reacted to another vehicle cutting in front of him. The respiration rate rose gradually during the test. It reached a peak of 27 breaths per minute and averaged 20.5.

The breath rate for astronauts John Glenn or Scott Carpenter never exceeded 18 during space ventures. Their heart rates in orbit ranged from 80 to 90 for Glenn, and 80 to 94 for Carpenter.

John Corser, another experienced freeway driver, un-

derwent tests. When Corser entered freeway lanes his heart rate jumped to 113. Prior to the tests it was 79. His respiration rate ranged from 19 to 24.

**Jarred Visibly**

"When a tire blowout was simulated by popping a paper bag in the back seat, both subjects were jarred visibly," DeHaven said. "Respiration was interrupted, heart rate rose sharply and GSR peaked so violently the indicator jumped completely off its scale. Momentarily, they were in a state of panic."

Neither Glenn nor Carpenter experienced heart rates as high as 153 during blast-off in their space-bound capsules.

## Forest Service Asks to Reserve Recreation Lands

An application to reserve approximately 220 acres of public land in the Rogue River, Umatilla and Willamette National forests for public recreation and administrative purposes has been filed by the forest service, according to the bureau of land management.

Present campgrounds have been found inadequate to meet the increased number of visitors to Oregon national forest areas, the BLM states.

Through its land office, the BLM is responsible for any reservations of public lands by any federal agency.

The forest service requested the BLM Portland Land office to set aside approximately 100 acres in the Umatilla National forest for development of six additional campgrounds. The plan is to develop these areas under a five-year project.

**Two Campgrounds**

Two campgrounds on Carberry Creek are in the planning for the areas in the Rogue River National forest. At present there are no campgrounds in the immediate areas and they are needed to provide facilities for present and future recreation.

In the Willamette National forest improvements have been placed on the Pearl Creek administrative site, including a guard station. The forest service wants the 40-acre area reserved to protect the government's investment, according to Stanley D. Lester, land office manager.

Lester said the forest service requests that the land be closed to location and entry under the general mining laws subject to valid existing claims.

**Detailed Description**

A detailed description of the affected land will be published in the federal register. It will also be posted in the BLM land office in Portland, the BLM district offices in Baker, Salem and Medford, the courthouses at Medford, Pendleton, Heppner and Salem and in local post offices.

The public is being given 30 days from the date of publication in which to comment on the proposal, Lester said. Written comments should be sent to manager, land office, bureau of land management, U.S. Department of the Interior, 710 NE Holladay, Portland 12.

**Shade Blending Is Subject of Meeting**

Mrs. Mildred Nelson demonstrated blending different shades of color to obtain highlights and shadows when she painted a portrait at a recent meeting of the Southern Oregon Photographic association.

Topic of her demonstration was the "Art of Oil Painting Photographs."

Mrs. Nelson explained the technique of blending colors to develop flesh tones and said hair is composed of a number of colors. She said there also are many shades of green in the tree leaves and the painter should find himself observing the different shades of colors in all of nature wherever he goes.

The next meeting of the association has been scheduled for March 4 at 8 p.m. at the Red Cross building. Members will exhibit their winter theme pictures in color slides and black and white salon prints.

**Bristol Silica Firm Office Said Entered**

The office of the Bristol Silica company, Old Stage rd., Gold Hill, was entered sometime Tuesday night, Jackson county sheriff's deputies were notified Wednesday.

Deputies said a glass in a rear window was broken to gain entry. Three blank checks, with the old Rogue River address of the firm were missing. A circular card file was also taken from the office, but was found some distance from the building.

**Exams Announced for Civil Service Posts**

The U.S. civil service commission has announced new examinations for the positions of architect and aerospace quality control representative and specialist.

Applications for the examinations for the positions may be obtained from L. B. Nelson, examiner, civil service, at the Medford post office or from the U. S. civil service commission, Washington, 25, D. C.

**STAR'S WIFE DIES**

Sherman Oaks, Calif. — Mrs. Maria Anna Melchior, 59, wife of opera star Lauritz Melchior, died Wednesday in her sleep.

Standing in Kentucky forests is enough lumber in trees of sawtimber size to build over 2.7 million houses — one for each family in the New England states.

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