

## Lab Studies Electrons in Outer Space

The Ionosphere Research Laboratory is measuring the electron density distribution in the upper atmosphere important in tracking satellites and radio communication.

The research is being carried out under a \$66,553 grant for an 18-month period from the National Science Foundation for the International Geophysical Year.

Dr. Erwin R. Schmerling, assistant professor of electrical engineering in charge of the research, and his assistants work with sweep frequency recordings taken from radio communications information gathered at 170 stations throughout the world.

Films containing the data from the stations come in 1000-foot rolls, each representing a month's information. The data is analyzed by Schmerling and his colleagues and fed to the PENNSTAC digital computer. The mathematical computations required are so complicated that it would take an individual years to do some of them that the computer does in minutes, Schmerling says.

## Kersavage Fined On Three Charges

A University student in a hearing before Justice of the Peace Guy G. Mills yesterday pleaded guilty to charges of disorderly conduct, drunkenness and the use of profane language.

Paul Kersavage, senior in wood utilization from Blakely, was arrested at 12:30 a.m. Sunday in the New College Diner by State College police.

Kersavage paid a \$5 fine and \$11.50 in costs.

### Tempered Topics—

(Continued from page four) during the encore, "Were You There When They Crucified My Lord?" she said, "If you didn't mind them I didn't."

James Shomate, Miss Stevens' accompanist, said that talk about the University Artists' Series has spread to New York City and that "the Penn State students have access to better entertainment than a New Yorker."

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