



Ten miles northeast of Washington, D.C., near Greenbelt, Md., is the first major laboratory in the U.S. to be devoted entirely to the peaceful investigation and exploration of space.

Goddard Space Flight Center, named after rocket pioneer Robert H. Goddard, was founded on May 1, 1959. The center, with a staff of more than 2,700, is responsible for the complete development of unmanned sounding rockets and satellites. In addition, it manages NASA's Delta rocket, two world-wide satellite tracking networks and the Goddard Institute for Space Studies in New York, which concentrates on basic theoretical research.

Goddard is one of the few installations that can carry a space experiment from beginning

to end—from idea to construction of a satellite to launching to tracking to evaluating data.

Three of the most important satellite projects now going on at Goddard are the orbiting observatories: Orbiting Solar Observatory (OSO), Orbiting Astronomical Observatory (OAO) and Orbiting Geophysical Observatory (OGO). The latter is to be called POGO when launched in a polar orbit and EGO when launched in an eccentric or elongated orbit.

The first OSO was launched in March 1962 and was credited with gaining more information about the sun than all previous observations. Knowledge about the sun is vital for manned flight to the moon, since the radiation from as yet unpredictable solar flares is a

major hazard to astronauts in deep space.

The first EGO launching is scheduled for this year, the first POGO for 1964 and the first OAO for 1965. Eventually, one or more of each will be aloft at all times.

Looking into the far future, Goddard is studying the feasibility of repairing satellites in orbit. In the third panel, an astronaut, sent into space in a winged re-entry vehicle similar to the Air Force's proposed Dyna-Soar, is making repairs on a Nimbus weather satellite. Nimbus, also a Goddard project, is successor to the famed Tiros weather satellite series. The first Nimbus will be shot into a polar orbit by 1964 from Pt. Arguello, Calif.

NEXT: The Aims at Ames

'Good Communists' Don't Accept Tips

By JAY AXELBANK

MOSCOW (UPI) — The Moscow taxi driver made a sour face when handed a 20 kopeck (18 cents) tip by the American tourist.

Misunderstanding, the American doubted the tip and proffered it again.

Again the driver returned the money. "I work for a living," he said. "Don't insult me."

The taxi driver was a "good Communist," and good Communists don't accept tips. Since 1917 the government has tried to discourage tipping as a bourgeois hangover.

coat check desks, etc., tipping is about as usual as in the West.

In the years after the 1917 Revolution it was fairly commonplace to see signs exhorting Russians not to tip. "Don't humiliate your fellow men," was a typical admonition.

But such ethical directives are rare now in Moscow, although the farther one goes outside the capital, the less tipping is practiced and the more likely a tourist is

likely to have his tip handed back, with 10 kopeck pieces and other tips.

Moscow coat check counters in winter—Russian custom demands that all coats be checked in restaurants, theaters or other public places — now sport little dishes

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New Fields Necessary To Stop Decline Of World's Diamonds

FREETOWN, Sierra Leone (UPI) — In the language of love, diamonds are forever. But unfortunately for Sierra Leone, they may not go on forever here.

Local production of diamonds has fallen off sharply. Diamond dealers expect it to continue to fall unless new fields are found.

This is important to a new West African nation of 2.5 million

people and 27,925 square miles, about the size of Ireland, which gained independence on April 27, 1961, after more than 250 years of British rule.

In 1961, diamond exports were \$43.4 million, nearly three-fifths of the country's exports. But the end of 1962, diamond exports were running at the rate of only \$22.4 million.

Finally, in 1956, the government bought out the monopoly and began licensing native diggers. Improved marketing arrangements through the Diamond Corporation (largely owned by De Beers) further reduced smuggling but dealers believe some always will go on.

Other than diamonds, Sierra Leone has deposits of rich iron ore and also produces some export crops such as Pissavae, coffee, cocoa, ginger and kola nuts. But per capita gross national product is around \$30 a year, one of the lowest in Africa.

sources here like the oil in Nigeria or the bauxite in Ghana," commented one veteran British official. While Ghana is several times larger, it came to independence with reserves of around \$60 million. Sierra Leone had about \$7.4 million. A third of that is gone.

The conclusion is that the country will need outside help for development.

Sierra Leone means "The Lion Mountains", a name given to it by the Portuguese navigator who "discovered" it in 1460. Freetown, the capital, has one of the largest natural harbors in the world and was a major staging point for allied convoys in World War II.

The masts of a sunken freighter still slant from the sea off shore.

The sap of a tree does not always go down in the fall and rise in the spring; some trees have higher moisture content in winter.

Man Drowns

EUGENE (UPI)—Clifford Suelze, 9, Eugene, drowned while swimming in Fern Ridge Reservoir near here Tuesday afternoon.

He was the son of Mr. and Mrs. Rolland K. Suelze of Eugene.

Natives Join Act

Diamonds were discovered in Sierra Leone at the end of the 1820s. For years, one company, the Sierra Leone Selection Trust, had a monopoly on mining. But then in the early 1960s, native diggers began finding diamonds in river beds or covered by only a few feet of soil.

Since, legally, the precious stones all belonged to the monopoly

Lightning Hits BPA Power Pole

PORTLAND (UPI) — Lightning Tuesday afternoon hit a Bonneville Power Administration wooden H-frame pole and knocked out the Redmond - Burns 115,000-volt line, a BPA spokesman said here.

The lightning strike caused a power outage at Burns and other sections of southeast Oregon. Power was expected to be restored early today.

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