

Eight Types of Mighty U.S. Rockets Capable of War, Put to Peaceful Uses

Cape Canaveral, Fla. — (UPI) — America's ballistic missiles are cast in a role perhaps unique in history — weapons of war serving simultaneously as instruments of peace.

The U.S. has developed eight types of mighty rockets capable of delivering in one blow a nuclear punch of destruction surpassing all the bombs dropped by both sides during both world wars.

The names read like pages from mythology and history books — Atlas, Titan and Minuteman, the giant intercontinental ballistic missiles (ICBM) — Thor and Jupiter, intermediate range weapons (IRBM) — Polaris, an IRBM to be launched from a submerged submarine; Pershing, a selective-range ballistic missile, and Skybolt, an air-launched IRBM.

But at least three — Atlas, Jupiter and Thor — have become equally well-known to the world for their ability to toss satellites into orbit around the earth and sun. A fourth, Titan, will become the nation's mightiest space rocket before the end of the year.

Grange Notes

Central Point Grange
Announcement of the Grange picnic Sunday, June 26, was the highlight of the meeting of the Central Point Grange Friday. Mrs. Marshall Weidman is in charge of making plans with Mr. and Mrs. A. T. Lathrop, long time members who are now living at Williams. The picnic will be held at the Brush Riders picnic grounds near Williams.

Grangers will meet at Central Point Grange hall at 12:30 p.m. Sunday, the picnic is at 1:30 p.m. Anyone wishing more information may call the committee. Mrs. Weidman, Mrs. Charles Morehouse, Mrs. Gaston Floux. Each Grange family will bring a basket of food and table service. Ice cream will be furnished by the HEC club and coffee by the Grange. The picnic will take the place of the June club meeting.

During the business session reports on agriculture and horticulture were given by Delmar Smith, Charles Taylor and Edwin Gebhard. The Grange voted to purchase a new 50 star flag to be used in the Grange. Master Boyce and Secretary Mrs. Charles Taylor gave reports of the State Grange in Roseburg. Mrs. Taylor reported some unusual animals seen at the convention included a skunk and a greased pig. Mr. and Mrs. Charles Morehouse took the sixth degree.

On the display table were exhibited collections of roses and other flowers by Mrs. Charles Jantzer and Mrs. O. T. Wilson. Charlene Swanson showed a collection of delphinium. Mrs. L. C. Gordon had decorated the hall with baskets of roses, Ester Reed daisies and delphinium.

For the lecturer's program Smith showed colored slides of Yellowstone National park, and Charles Taylor showed slides of orchards in bloom. Mrs. Cecil Keenan reminded all Grangers to send or call her about the second quarter Grange slips, before July 1. The July 1 Grange meeting will be a social night for members and friends. Lecturer Mrs. Homer Jeffries has arranged a musical program. Members of the Jeffries family are visiting here this summer and will furnish the entertainment on the program.

Bob Kuest, member of the Grange, is participating in the Junior Engineers and Scientists Summer institute at Oregon State college. Serving committee for the evening was Mr. and Mrs. Stanley Lydiard, Mr. and Mrs. Fred Kuest and Mrs. Grisham.

Cheryl Crane Sent Back to El Retiro

Santa Monica, Calif. — (UPI) — Cheryl Crane, 16-year-old daughter of film star Lana Turner, on Tuesday was ordered returned to a school for wayward girls from which she has twice escaped.

The ruling — made by Juvenile Court Referee Harry Simons who presided in the place of Judge Allen T. Lynch who is ill — went into effect immediately as the willowy brunette teen-ager was taken directly to the El Retiro minimum security school following the hearing.

Lynch, however, will have to approve the measure officially next Tuesday. "I'm very happy with the decision," Miss Turner said. "Of course, I would prefer to have her home, but I think the school is very good for her. She certainly seems happy to be going back."

Pershing are solid-fueled missiles with no space roles as yet. But the National Aeronautics and Space Administration and the Department of Defense are at work on plans to use solid-fueled rockets in space research.

Other plans have been suggested to launch satellites from planes in the skies — a job which might go to the 1,500-mile Skybolt.

For many months to come,

Thor will remain the workhorse of the U.S. space booster corps. The rocket, already on duty in England as a military weapon, is given stages that enable it to throw up to 300 pounds of payload into orbit.

These rockets are the famed Thor-Able, Thor-Able-Star and Thor-Delta. During the next seven months, they will fire at least three satellites toward orbits around

earth — Tiro II weather satellite, Transit 2-A navigational satellite and Echo II 100-foot balloon communications satellite.

Communication Means
Thor-based rockets also may be selected for the job of getting the first two prototypes of the Army's Courier satellite into orbit. Courier will give the U.S. armed forces a means of communications with overseas bases by

messages tape-recorded in space.

Atlas, America's mightiest war-ready rocket, is capable of hauling multi-ton nuclear payloads over distances up to 9,000 miles. In its peacetime role, it is the most powerful space booster available to this country at present.

An Atlas-Agena threw a 5,000-pound Midas II satellite into orbit recently. By the end of 1960, it will send other prototype of Midas, an early-warning defense satellite, and Samos, a reconnaissance moonlet, into polar orbits from Vandenberg Air Force Base, Calif.

with the smaller Able stages so familiar with Thor will attempt two probes of the moon — one in August or September, the other in November. At least one will attempt to take pictures of the far side of the moon's surface and relay the photos to earth via television.

Slated for Atlas
A more powerful upper stage, Centaur, is slated for Atlas by late next year. Meanwhile, the Titan ICBM — riding a string of six successful military flights here — is being primed for a space shot this year.

send about 11,000 pounds into orbit around earth — 5,000 pounds of instruments and 6,000 pounds of empty casing — without modification.

The federal space agency will use the Juno II, an "old reliable" in the American space force, for a series of five scientific exploratory shots starting in about August or September.

In the military field, Atlas, Thor and Jupiter are combat-ready, and Polaris and Titan will reach that stage by the end of 1960, if all goes well.

Minuteman should become operational by 1962, as will Pershing. Skybolt, now in the planning stage, will come shortly thereafter.

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