

MSA cuts two tests

# Delays plague shuttle

orbital flight test program from missions.
The or uent operational missions.

he effort to develop the bigged rocket transport has been ned by numerous problems for past few years and is now more a year behind schedule. The ms are so serious President

etting the space shuttle ready perational satellite launchings oon as possible is particularly rtant because the Defense Denent is counting on the ship to wised for planning purposes, looks tentatively planned for 1982. elopers also are affected by de-

e shuttle is the first spaceship to return from orbit to an airlanding. This will allow it to be

he initial launch of the Columthe first of four rocket planes to uilt, now is scheduled for some between the end of March and end of June next year - but e space agency officials believe fill likely be delayed into next

ronauts John W. Young and ert L. Crippen will make the starting out from Cape eral, Fla., and gliding to a ng at Edwards Air Force Base, 53 hours later.

nission, once set for last the powerful newly designed xygen engines that will the Columbia into orbit. But ntly it has been delayed installation of vital insulation n the ship's aluminum skin. additional two-man shuttle this in orbit were planned be-

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Wilted Press International fore the 122-foot-long spaceship was like this:

WASHINGTON — The space to be declared ready to carry out operational satellite launching by June 1980.

The original schedule called for the sixth test flight in March 1980, with the first operational mission 1981 coming two months later. Four more operational missions had been scheduled for 1980.

The most recent timetable, presented last week to organizations that 1981. r has asked for a briefing next will use the ship, eliminates the last two test flights and turns them into operational missions. Space officials point out that additional test missions can be scheduled if the in-

itial flights encounter difficulties. The latest tentative schedule, de-

community welcome

Space shuttle 1 — to be launched

Space shuttle 2 - launched by November 1980 Space shuttle 3 — by February

Space shuttle 4 — by May 1981. Space shuttle 5 (the first operational mission) — to launch a tracking and data relay satellite Sept. 1,

Space shuttle 6 — to launch three communications satellites Oct. 21,

Thirteen flights of the Columbia and the second space shuttle, the not-yet-completed Challenger, are

## Sun kills crucial info from Titan United Press International MOUNTAIN VIEW, Calif.

The first major disappointment in the 6½-year journey of Pioneer 11 occurred when crucial data about possible life on Saturn's moon, Titan, was lost.

The Space Agency said huge bursts of radiation from the sun blacked out radio signals from the 565-pound spacecraft for two hours

That crucial time period was Pioneer's only chance — for just 15 minutes while moving at 25,000 mph - to obtain ultraviolet measurements of Titan.

These measurements would have given the satellite's temperature, the key to the question of whether Titan's conditions could foster life

Titan is the last place in the solar system besides Earth where scientists think life forms could develop.

Charles Hall, Pioneer Project manager, said he was deeply disappointed. But he said a small percentage of the data might be recovered by intensive reviews of recordings made at the tracking station at Madrid

Previously, Pioneer had been unusually lucky during its 2 billionmile trip. It survived the asteroid belt, and it suffered some circuitry damage when blasted by enormous radiation as it curved close around Jupiter. But that damage had been

expected.

Titan's temperature is important because, for life to exist, the surface should be above freezing, the level allowing primitive organisms to

Titan, larger than either Earth's moon or the planet Mercury, has the chemicals necessary for organisms to form, and it has an atmo-

Many scientists theorize that Titan's surface is about 300 degrees below zero Fahrenheit, but this calculation has not been proved and some scientists disagree with it.

Tuesday, Pioneer was outbound, 1.6 million miles from Saturn, passing some of its moons other than Titan and headed on a trajectory that will take it out of the solar sys-

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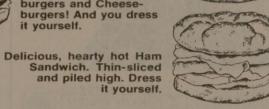
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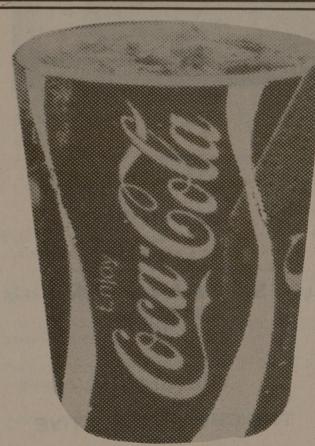
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