



Next to manned flight, the most exciting exploits of the early space age have been the first attempts to send instruments beyond the earth to the moon and into interplanetary space. Responsible for America's efforts in this area is National Aeronautics and Space Administration's Jet Propulsion Laboratory.

JPL, located in Pasadena, Calif., differs from NASA's other centers in that it is operated under contract by California Institute of Technology. It has a staff of 3,800. Its spending in fiscal 1964 may reach as high as \$400 million.

JPL's major spacecraft programs are: Ranger (hard moon landing), Surveyor (soft moon landing), Mariner (interplanetary explorer) and Voyager (advanced planetary explorer).

NASA has spent over \$100 million on the Ranger program so far. There have been five flights and five failures and the program is behind schedule. Mariner has been delayed because the Centaur rocket, designed to power it into interplanetary orbit, has experienced constant trouble. Voyager awaits the powerful Saturn booster, now under development.

Between now and 1967, NASA plans to send about 14 Rangers and 17 Surveyors to the moon to prepare the way for the first astronauts. The 750-pound Surveyor, shown in first panel, will land a complete laboratory. Color-stereo television cameras will examine the lunar landscape; other instruments will analyze lunar soil and radio the findings back to earth.

Half a dozen Mariners will be sent to Venus and Mars in 1964 and 1965. Toward the end of the decade and into the next, JPL will launch even more spectacular deep-space probes. One will arc through the tail of a comet in 1967, when a number of comets are due to appear. Probes are being considered for the smallest and largest planets, Mercury (1967) and Jupiter (early 1970s).

Another probe will be launched around the sun out of the plane of the ecliptic; that is, at an angle to the plane in which the planets orbit. Finally, a probe will be sent as close to the sun as 10 million miles to study its corona and spectacular solar flares.

NEXT: Rover, RIFT, SNAP and Kiwi

Russians Beating United States In Manned Space Conquest

CAPE CANAVERAL (UPI) — The Russians are beating the United States in manned conquest of space—but it's a safe bet they aren't having half as much fun at it.

Effort To Find Nuclear Sub To Be Extended

ABOARD THE USS FORT SNELLING AT SEA (UPI)—An all-out effort by the Navy to locate the missing nuclear submarine Thresher will be made Monday, weather permitting, when the two-man bathyscaphe Trieste plunges 8,400 feet to the floor of the Atlantic.

Trieste, under tow from Boston by the salvage ship Preserver at a speed ranging from 2 to 4 knots, was expected to arrive at the site of the Thresher sinking, 220 miles east of Cape Cod, Sunday night.

The \$45 million Thresher, 112 Navy officers and men and 17 civilian technicians aboard, plunged to depths beyond her operating capacity April 10. In these depths, more than a mile and a half beneath the surface of the sea, the tremendous pressure of about two tons per square inch was believed to have crushed the hull of the vessel.

Since then the Navy has been using oceanographic research vessels in an operation which experts admit is an entirely new field for the Navy: That of finding a sunken object of major proportions at great depths.

Trieste, an oddly shaped underwater research device, is actually two units. The top is a

hugely, balloon-shaped float, 50 feet long and 11 feet in diameter. Beneath it is the steel gondola in which the "pilot" and observer ride.

When Trieste makes her dive Monday she will check out an area where previous tests with special gear indicate the bulk of Thresher might lie.

Naval experts point out there is a difference of opinion as to what might be expected to be found.

LEATHER CARE

White leather should have its oil content maintained for the best possible service. A good white cleaner contains oils which replace those lost through washing and wear, according to the Encyclopedia Britannica.

Standard marching-band and dance-band drums have enjoyed good sales in recent years, rising from a 1959 unit total of 120,000 to 163,000 in 1962.

CLARENCE MILLER, store manager, said the building was bought from Henry A. Kuckenberg and the O'Donald and O'Shea estates.

William Roberts, president of Lipman-Wolfe announced the purchase. The Roberts' company also operates stores in Salem, Corvallis and Eastport Plaza in Portland.

Coast-to-Coast NEWSPAPERS SELL THE MOST!

DOWNTOWN OFFICE SPACE Inquire At GUN STORE 714 Main

Arthur Godfrey says: "Keep New Clothes Looking New"

So, of course, you want to keep new clothes looking new. Well, here's a tip one of the biggest clothing manufacturers gave me—and I tell my listeners on my CBS Radio program—insist on Sanitone Drycleaning. Sanitone Drycleaning gives you extras, like spots removed scientifically; minor repairs made; professional-rated press—fit, shape restored—and special finishes make the fabric feel new. So, for more than just drycleaning, insist on Sanitone!

NEW TANFASTIC DARK-TANNING OIL

This remarkable new suntan oil prepares your skin to safely receive nearly all of the sun's tanning rays. You tan really deep—really dark! Non-greasy and stainless. 4 oz. \$1.39 Plastic bottle (low fat oil) (Available in new formula Lotion, too)

FREE INTRODUCTORY GIFT! CELEBRITY LOOK Sunglasses Beautifully crafted, styled continentally. Yours FREE with new Tanfastic Dark-Tanning Oil Limited offer.

OPEN NITES till 9 PM SUNDAYS 11 till 6

PAY LESS DRUG STORE 808 MAIN ST. KLAMATH FALLS

Store Price \$3 Million

PORTLAND (UPI) — The Lipman-Wolfe & Co. today announced purchase of the building it has leased for the past 50 years.

The price for the 10-story downtown structure was reported as in excess of \$3 million.

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CASCADE LAUNDRY and Dry Cleaners Opp. Post Office Ph. TU 4-5111

NEW METHOD CLEANERS Gold Bond Stamps Ph. TU 4-4471 1543 Esplanade

BROADWAY CLEANERS 2nd Green Stamps Ph. TU 4-6403 4615 So. 6th and VILLAGE CLEANERS at the Town & Country Shopping Center Trucks Radio Dispatched for Fastest Possible Service

Drink Excessively — You Die Early

NEW YORK (UPI) — It now has been demonstrated with hard figures that those who drink excessively and habitually pay for it by dying sooner than they would have otherwise.

Many people have always believed it but usually they're not alcoholic. Heretofore mathematical proof—or disproof—has been lacking. Vital statistics do not say whether their subjects were alcoholic or non-alcoholic.

Michiko Tashiro, a statistician, and Dr. Wendell R. Lipscomb had the makings for such a unique set of figures in the records of the California State Alcoholic Rehabilitation Organization. They are members of its scientific staff.

Living and Dead To its four alcoholism treatment centers 1,692 men and women were admitted in a three-year period beginning in 1954. Tashiro and Lipscomb checked

back on them all and separated the presently living from the dead.

This gave them two sets of statistics, a survival table and a mortality table. These they compared to the same tables for the California population as a whole, making proper statistical and adjustments for age, sex and race in order to get mathematically precise comparisons.

For the five year period under consideration, the heavy drinkers survived only 91 per cent as well as their opposite numbers in the general population, demonstrating, the scientists said, that "alcoholics do not live as many years" as they might.

Death Rates Compared To verify this, they compared mortality tables. The average annual death rate of the alcoholics figured out to 26 per 1,000. In the general population the rate was 11 per 1,000. Thus, the death

rate among alcoholics was almost 2 1-2 to 1.

ALSCO ALUMINUM SIDING Local TU 4-8196 Terms to Suit ARALUM Window & Door

Science Shrinks Piles New Way Without Surgery Stops Itch—Relieves Pain

New York, N. Y. (Special) — For the first time science has found a new healing substance with the astonishing ability to shrink hemorrhoids, stop itching, and relieve pain—without surgery.

In case after case, while gently relieving pain, actual reduction (shrinkage) took place. Most amazing of all—results were so thorough that sufferers made astonishing statements like "Piles have ceased to be a problem!" The secret is a new healing substance (Bio-Dyne®)—discovery of a world-famous research institute. This substance is now available in suppository or ointment form under the name Preparation H®. At all drug counters.

FALSE TEETH SECRET DISCOVERED! A NEW WAY TO HOLD FALSE TEETH IN The secret is ACATINE, formerly used only in dental labs. Simplified for easy home use. ACATINE flows on plates—fits them exactly to gums. A beautiful fit never before available in store products. Lasts months. Get ACATINE now only \$1.98—Pay Less & Leading Druggists

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