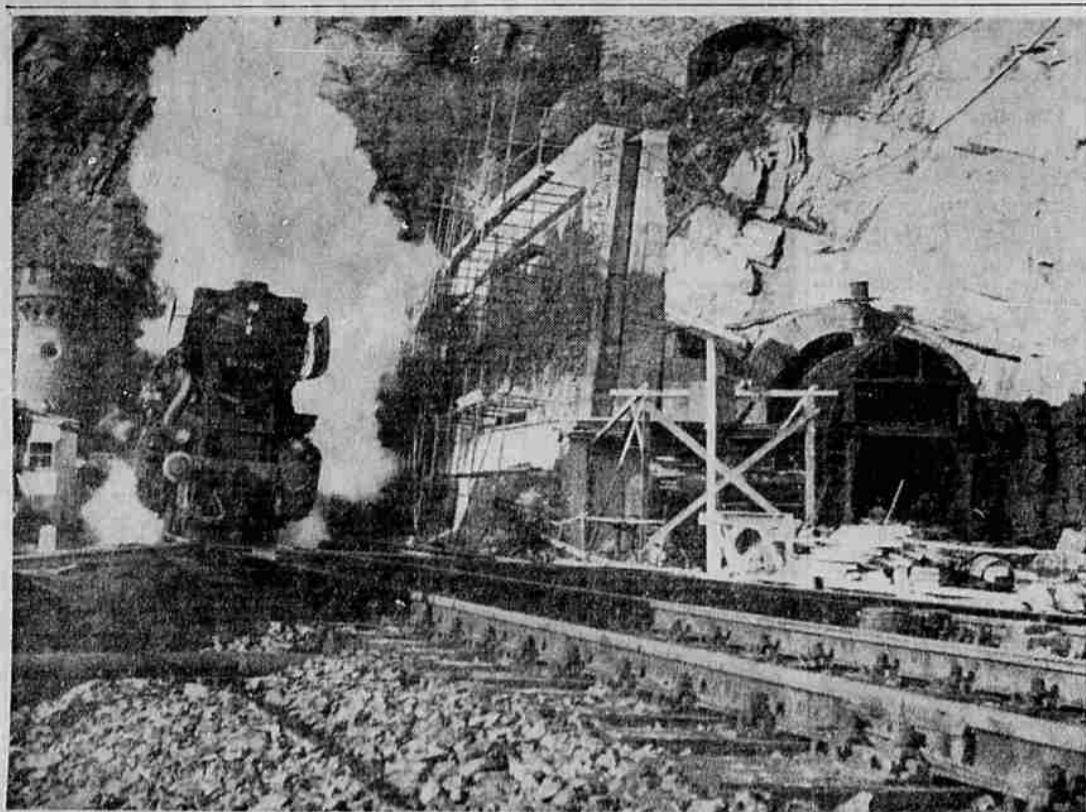


All-Solid Fuel Rocket To Put Man Safely on Moon by 1967 Visioned



NEW TUNNEL BEING BUILT - A second tunnel through the famed Lorelei mountains on the Rhine river near St. Goarshausen, Germany, is under construction while the first tunnel, constructed during the last century, continues in use. The new tunnel is needed for the planned electrification of the railway line which demands a higher tunnel opening to allow room for the overhead electric wires. (UPI Telephoto)

Launch Vehicle Could Put 250,000 Pounds in Orbit

Washington - UPI - A space scientist said Tuesday that the United States could perfect a giant, low-cost, all-solid fuel rocket in time to put a man safely on the moon by January, 1967.

This would be several years ahead of the National Aeronautics and Space Administration's schedule for a manned trip to the moon powered in part by liquid fuel rockets.

H. L. Thackwell Jr. of the Grand Central Rocket Co., Redlands, Calif., proposed construction of a five-stage solid fuel rocket which would be manufactured in sections and put together at the launch site.

"Assuming a starting date of Jan. 1, 1961," Thackwell told the American Rocket Society, "it would be possible for the U.S. to land a man on the moon by January, 1967."

"This same launch vehicle could place 250,000 pounds into a 300-mile orbit at an over-all launch cost of approximately \$100 per pound as compared to the \$10,000 per pound it has cost to launch the present U.S. satellites into orbit."

Developing Small Rocket

The civilian space agency is developing a small all-solid fuel rocket, the Scout, for hurling 150-pound satellites into 300-mile orbits from the Wallops Island, Va., launch center. It has ordered studies of solid fuel giants generating millions of pounds of thrust.

Thackwell proposed an early start on actual building of such rockets. He envisions simple motor segments loaded with propellant at the factory and designed for easy transportation by existing means to the launching site.

There they would be assembled into five-stage launch vehicles. He said that because the segments are loaded at the factory, fewer men and less complex equipment are needed at the launching area.

He said that would greatly reduce countdown times and cost.

"The proven reliability and safety of solid rockets, coupled with their low production and development costs, has made them logical candidates," Thackwell continued, "for the launch vehicles required by the U.S. space programs."

Private Space Ventures, the rocket society also was told that before another year has passed private companies will have tested in orbit the forerunners of a satellite system providing world wide commercial telephone and television service.

The American Telephone and Telegraph Co. expects to have an active-repeater satellite, which will receive and rebroadcast messages, ready for launching next fall into an orbit of a few thousand miles' altitude.

The Hughes Aircraft Co., the society was told, will be ready at the same time to launch a similar satellite into a 24-hour "stationary orbit" about 22,360 miles high.

At such a height the satellite's orbital velocity would be identical with the earth's speed of rotation and therefore would appear to an ob-

Transportation Leads To Capture of Texan

Long Beach, Calif. - UPI - A Texan escaped from the city's honor farm Tuesday and nearly got away except for one thing - his true-to-Texas form of transportation.

Frankie D. Goad, 22, of McAllen, Tex., serving a 52-day sentence for impersonating a police officer, was easily spotted and corralled as he galloped along a highway on a rented horse.

PRECISE ACCENTS

London - UPI - British Home Secretary R. A. Butler spoke at least in precise accents when asked in the House of Commons how much the Exchequer would contribute to pay boosts for policemen.

"Upwards of rather below the figure of 10 million pounds (\$28 million)," was his answer.

Quick-Cut Casual



9398
SIZES
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by Marian Martin

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server to be standing still.

The space agency proposed to supply launching facilities to private companies who come up with "well conceived" communication satellites.

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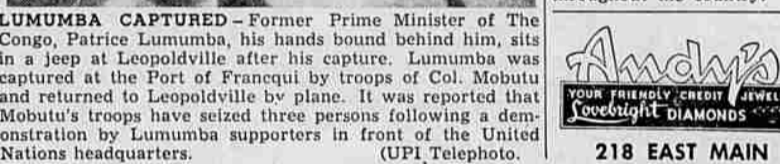
Churchill's Writing Talent Said Lacking

Rock Hill, S.C. - UPI - Sir Winston Churchill, who won the Nobel Prize for Literature in 1953, is a "very bad writer," a British author said here Tuesday.

Malcolm Muggeridge, former editor of "Punch," told an audience at Winthrop College that Churchill is honored for "terrific service" to the Empire, but his "prose style is the worst penned by man."

ISSUE DULLES STAMP

Washington - UPI - A four-cent stamp honoring the late Secretary of State John Foster Dulles was dedicated Tuesday at the Post Office Department. Some 120 million copies will be sold at post offices throughout the country.



LUMUMBA CAPTURED - Former Prime Minister of the Congo, Patrice Lumumba, his hands bound behind him, sits in a jeep at Leopoldville after his capture. Lumumba was captured at the Port of Francqui by troops of Col. Mobutu and returned to Leopoldville by plane. It was reported that Mobutu's troops have seized three persons following a demonstration by Lumumba supporters in front of the United Nations headquarters. (UPI Telephoto)

Mrs. Kennedy's Nurse Straightens Record

Washington - UPI - Mrs. John F. Kennedy's nurse, Miss Luella Hennessey, is miffed - to say the least.

A weekly magazine and some news dispatches have described her as a "practical nurse."

The blue-eyed nurse said, somewhat perturbed, "I am an RN (registered nurse) and I earned it."

Jumbo-Knit Hits



7306

by Alice Brooks

The BULKY LOOK the young set loves! Whip up these warm wonders for school or sports.

JET-SPEED knitting - use jumbo needles, 2-strand knitting worked for jacket with hood or collar. Pattern 7306: child's sizes 4, 6, 8, 10, 12, 14 included.

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If you are miserable and worn out because of these discomforts, Doan's Pills often help by their pain relieving action, by their soothing effect to ease bladder irritation, and by their mild diuretic action through the kidneys - leading to increase the output of the 13 miles of kidney tubes. So if nagging backache makes you feel dragged-out, miserable, with restless, sleepless nights, don't wait, try Doan's Pills, get the same happy relief millions have enjoyed for over 60 years. Ask for Doan's, economy size and save money. Get Doan's Pills today!

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OF SMITH & MEN

By Jack Smith
(c) 1960 - Times-Mirror Syndicate

A woman got a divorce the other day, I read on the ground that her husband was moody.

This shows how tenuous a relationship marriage really is, and how the gentlest ill wind can blow it asunder.

Moodiness, of course, can include a mess of evils. You might argue that Jack the Ripper was a moody chap.

But in the case referred to, the husband seems to have been a paragon in every other respect.

He didn't beat his wife; he didn't drink too much and crash about like a wounded alligator; he didn't even pursue other females.

In fact, he seems to have had few amusements. Small wonder he was subject to occasional moods.

The acceptance of moodiness as legal cause for divorce leaves us all hanging to the ship of matrimony by rather slippery lines.

The whole sorry story recalls to mind a case in which I played the role of friend to both parties.

It involved a pharmaceutical salesman who insisted on keeping a live deer in the kitchen one winter.

I wouldn't call this a mood as much as an eccentricity. This fellow seemed to have a compulsion to overprotect deer.

Oddly, his wife, a really good sort, didn't mind too much. She was a jewel. She used to say it could be worse. He could have kept a moose. Anyway, the deer was housebroken. It was called Evangelina.

The wife finally divorced my friend because he had a huge pocket watch which he put under his pillow at night. It was a Hamilton, as I remember. It was an heirloom from his father, who had been a conductor on the Wabash Line. It kept his wife awake.

In her complaint before the court, of course, she didn't mention the watch. She knew that keeping a pocket watch under the connubial pillow might seem to the judge to be a trivial offense, and no cause for cleaving whom God had joined together.

So she wisely blamed everything on the deer, which really had nothing to do with the failure of the marriage. It worked splendidly. Women have an instinct about the right thing to say in divorce court.

If she had told about the



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Portable X-Ray Developed at McMinnville

Washington - UPI - A revolutionary new portable x-ray unit which weighs only 85 pounds has been developed by scientists at Linfield College in McMinnville, Ore., according to the Army Medical Service here.

The self-powered clinical x-ray unit, about the size of a suitcase, was developed by Linfield Research Institute to replace the 1,000 pound units which have been used in Army field hospitals and mobile surgical hospitals.

The new unit operates fast enough to avoid blur in chest radiography while the patient is breathing normally, the Army said.

Will Weigh Less Commercial production for the new machine is expected to get under way at Field Emission Corporation at McMinnville in the coming year. A production prototype now is under development and probably will weigh considerably less than the present 85-pound model.

Initial concept and design were developed by Dr. Walter P. Dyke, director of LRI, and Frank J. Grundhauser, after a military need for such a machine was made known.

14 Countries Enter Monaco TV Festival Monte Carlo, Monaco - UPI - Fourteen countries have entered the first international television festival of Monaco, which will judge TV films.

Prince Rainier, husband of the former Grace Kelly, founded the festival to help develop international relations in television.

Forest Products Income Increases

Portland - UPI - The forest products industry brought \$2.25 billion into Oregon and Washington in 1959, 11 per cent higher than the previous record year of 1956, W. D. Hagenstein, executive vice president of the Industrial Forestry Association, said Tuesday.

Hagenstein said the forest industry continued as the Pacific Northwest's leading employer with 152,000 jobs last year. Its employees earned more than \$810 million, also a record.

Oregon's forest products yielded \$1.3 billion and Washington's \$920 million. Hagenstein said this was the fifth time Oregon's wood harvest yielded more than \$1 billion and the second time in which Washington's exceeded \$900 million.

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