

Russia Expected To Have Two Men in Space by Summer

Akron, Ohio—(Science Service)—The Russians will have a two-man satellite in orbit by summer, Dr. Fred Singer, physics professor at the University of Maryland, has predicted.

Such an achievement would have small military, but great propaganda value, Dr. Singer told the Americans for Democratic Action here. To counteract expected Soviet propa-

ganda after being the first to place men in space, he urged the U.S. to ensure before the event that its impact will not be misused.

Called Inevitable

This could be done, Dr. Singer said, by informing "the world, and especially the U.S. public, that a manned satellite is inevitable, that the Russians are likely to be first, but that it has hardly any military significance."

He suggested it could, however, give the Russians a tremendous military superiority complex that would then create conditions "ripe for war."

The physicist called for an intensified approach to manned satellites by the U.S. He said that for both psychological and prestige purposes, the U.S. should put a man into orbit at the earliest possible date, irrespective of when the Russians succeed in their efforts.

Dr. Singer suggested that the Russians may have made "very serious mistakes . . . in planning their ballistic missile program." Because they laid out their program before conception of the H-bomb, they are now saddled with a rocket much larger than needed to deliver the necessary explosive power.

Potential To Retaliate

The great variety of mobile, although short-range, rockets possessed by the U.S. gives us a virtually "indestructible" potential to retaliate and, hopefully, to deter.

Since the Russians cannot hope to cripple the U.S. ability to retaliate in case of attack, Dr. Singer said, the situation appears to be heading for a stand-off. However, these missiles cannot prevent an attack. He said the U.S. would have to rely on the premise that the Russian leaders are "rational and logical, and know that in event of war, they would also be destroyed."

Although every person has a differing reaction to the heat and humidity, Earl C. Thom, a Weather Bureau climatologist here, has calculated the discomfort index based on averages. Index figures will enable managers of all kinds of buildings to judge when they should turn on their air conditioners, and public utilities to judge the power load therefore required.

The discomfort index is the figure 15 added to four-tenths of the sum of the dry and wet bulb thermometer readings. Ordinary household thermometers are dry bulb instruments. Wet bulb ones measure the air's ability to hold moisture.

The discomfort index reaches 75, which many persons find oppressive, when the temperature is 75 degrees Fahrenheit and the relative humidity is 100 per cent. It is also 75 when the temperature is 80 degrees and the relative humidity 60 per cent, or the temperature is 85 degrees and the relative humidity 30 per cent.

Thom, who invented the term, "discomfort index," estimates that in the summer about 10 per cent of the population will be uncomfortable even before the index reaches 70. When it passes 75, more than half will be uncomfortable. At 79, all persons will be uncomfortable, and many will be acutely miserable.

Durno Introduces Steelhead Bill

Salem—(UPI)—A bill to make steelhead a game fish has been introduced in the Oregon Senate by Sen. Edwin R. Durno (R-Medford) and others. Such a bill has failed in past sessions.

If it were to become law commercial fishing for steelhead would be prohibited.

Washington—(UPI)—The Senate has confirmed the promotion of Rear Adm. Hyman G. Rickover, the Navy's nuclear submarine expert, to the rank of vice admiral.



SWIVELING HER HEAD to one side in an attempt to avoid picture, champagne blonde Belle Ingram, 19-year-old Roanoke, Va., beauty, is taken into custody near Las Vegas, Nev., where police said she robbed the First National Bank of \$2,000. Det. Mike Winger (1) and Det. Ray Gubler arrested her with \$1,761, much of it marked money, in a bus headed for Reno. She fled the bank in a waiting taxi, took the bus, but was caught at Indian Springs, Nev.



Small Worlds Around Us

By Lynn M. Watkins

In Flight, Terns Don't Look To Left or Right, But Down

Most birds characteristically fly with the head on a more or less level line with the body. They can and do look to the right or left or momentarily downward, but usually they are looking in the direction of their flight.

Exception to this rule is the very interesting family of water birds known as terns; their bills always point downward. They are swift, graceful flyers, often swooping in wide arcs; in a flight that resembles that of the swallow.

The terns often are found in company with the gulls, although they are not related to them in any way. But they willingly nest together if selection of nesting sites coincide.

Rapid Flight

The tern's flight is very rapid and his dives into the water for small fish are invariably effective. These dives often plunge him completely under but he reappears and immediately launches himself into the air again. One of his most distinguishing marks is the forked tail and mantle of pale pearl blue on the white body.

There are many varieties. The Roseate Tern, with a pink tinge on his breast, is common on the Florida east coast.

The Arctic Tern is one of the most traveled of all birds. Their migration takes them from pole to pole on long yearly pilgrimages. It is believed that this bird travels 3,000

miles a month in following the sun from the Arctic to the Antarctic and back again the following season.

The terns are very solicitous of a fallen comrade, hovering for long intervals over one of their number who has been hurt or killed, flying away at last reluctantly with many a backward look. Often they will return to the scene of the accident several days later and fly repeatedly over the spot, still retaining in their alert brains, the memory of one who flies no more.

Nest Simple Cavity

The nest is a simple cavity in the sand, occasionally with a bit of seaweed for a lining, with three greenish-white, brown spotted eggs.

The father tern assists in incubation and willingly carries food to the nestlings. An area of 10 square feet may have as many as 50 nests, all the families living harmoniously together. If in among them, there is a pelican or gull, there seems to be no objection offered.

When they are not nesting or feeding they can be seen in company of "black skimmers," one of their closest relatives, all sitting quietly on exposed sand flats, facing into the wind and watching the tide ebb away from the land.

(Released by The Register and Tribune Syndicate, 1959)

Balloons have been used to support a hemispherical aluminum building during construction.

The Family Council

Editor's note: The Family Council consists of a judge, a psychiatrist, three clergymen, a newspaper editor, a woman's editor and two writers. Each article is a summary of an actual report. The Family Council does not give advice; it merely reports on problems that have been dealt with by responsible agencies and counselors.

Debbie F.—His brother is trying to hurt me.

Howard F.—I can't refuse to contribute to mother's support.

Debbie F.—My husband and I have been married three years and have no children yet, but we are planning to have a family. I am working and I have been working for the past six years.

My husband's brother is a bachelor and has been very successful in business. He has always disliked me, and I think he is trying to hurt me by suddenly demanding that my husband contribute half to the support of their widowed mother. He has been able to support her on his own in the past without taking the smallest cut in his luxurious style of living.

If I weren't working we would have no savings at all, and the cut in my husband's income for his mother's support would be serious. I feel that his brother has no right to take my hard-earned money for the support of my mother-in-law.

and still live well on his income—with no family to think about.

On the other hand, I'm in no position to refuse when he asks me to contribute. After all, she is my mother too and if he weren't so wealthy I would have had to contribute to this support years ago.

As a result of the fact that Fred was successful in business, I was able to get my education without having to worry about my mother. I just can't give no for an answer.

The Council: Debbie's idea that her brother-in-law is dipping into her pocketbook for support of his mother is all wrong. The opposite is true. He has saved her pocketbook while he undertook the full responsibility for the mother.

Whether or not Debbie is working and whether or not Howard's brother is a millionaire, Howard owes a certain responsibility to an aged parent. If Fred were perfectly willing to assume the full responsibility, things might be a bit easier for Howard. But since Fred feels otherwise, Howard has no morally proper alternative to the act of forking over his share.

We also think Debbie's and Howard's easy evaluation of Fred's position is objectionable. It is quite possible that bachelor brother doesn't plan to remain a bachelor forever and would like to save for his own family. It is also possible that he has had business reverses. It is also possible that he finds necessary compensation for his lonely life in his "luxurious style of living." It is also possible that he would like to retire early or to take an extended travel vacation.

One more possibility is that Fred may think it is time his kid brother acknowledged the fact that he has a responsibility toward their mother. Fred may have gotten tired of carrying this burden and of receiving little or no recognition for the service.

Neither Debbie nor Howard has the least right to be peeved on this score. Fred deserves a word of gratitude for all he has done until now.

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Control on Oil Imports Ordered By Eisenhower

Washington—(UPI)—President Eisenhower Tuesday ordered mandatory controls on imports of crude, unfinished and finished oil products.

The new order replaces a system of voluntary import controls which expired at midnight last night. Domestic producers complained the voluntary program failed and forced them to cut back their own production.

Imports Under Order

Capt. Matthew V. Carson, who will administer the new program, said it provides that, starting today, no crude or unfinished oils may be imported into the United States unless by authorization of the secretary of interior.

Effective April 1, he said, no finished products, including residual oil used for burning, may be imported except by government authorization. Carson said finished products such as gasoline and jet fuel will be limited to 1957 levels. The program should substantially decrease the amount of oil and oil products imported into this country in the past.

Canada has five species of hickory trees, all growing east of Manitoba.

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