

Life Could Be Maintained on Moon by Reactor

By JOSEPH L. MYLER
Washington—Dr. Edward Teller wants to ship a powerful atomic reactor to the moon to convert lunar materials into water and other necessities of life on earth's arid and airless satellite.

Teller, who was instrumental in developing the H-bomb, told the House space committee recently that with atomic power moon matter might be changed into fuel for spacecraft operating from lunar bases.

He said nuclear explosives might well be used "to adjust the moon's surface" to make the going easier for lunar vehicles.

Teller said he thought his proposal to rocket a reactor to the moon "should be pursued without delay." He said the reactor he has in mind would be "very powerful," weighing only "a few tons," and be "relatively cheap."

It would not be necessary, he said, to send along a lot of heavy radiation shielding.

Use Dirt
"You can use dirt for shielding, and dirt, even on the moon, is dirt cheap," Teller said.

"From the point of view of any danger of contamination, the reactor can be made safe. In case of an unlikely accident only astronauts would be exposed, and astronauts are prepared to face greater dangers."

Teller said the reactor could be used "to drive whatever machinery we have up there." But it would have a more important purpose, according to Teller, moon rocks contain some water.

With the help of the reactor, he said, "one can boil out this water. With the reactor we can produce enough energy to conduct chemical reactions and to get at least those elements and their chemical combinations which are needed to maintain life."

With water available, it would be possible to build covered pools "in which we may grow algae," simple green plants which not only manufacture oxygen but also could serve as a protein-rich food.

Rocket Fuel
Water also could be broken up into its constituent hydrogen and oxygen for use as a powerful rocket fuel, Teller said.

"Because of the small gravity on the moon, takeoff and landing is relatively easy," he said, adding that "the moon would become a most wonderful refueling station for exploring the planetary system."

Teller said, "whoever takes space seriously must take the moon seriously," and to make the moon a practical base "we need this reactor."

He said the reactor will take four or five years of planning and that his plan should get under way, "quite seriously," now.

Choral Institute Set at College
Ashland—Registration for the first Southern Oregon Choral Institute will be open through July 16. Dr. Herbert Cecil, chairman of the music department at Southern Oregon college, has announced.

Jester J. Harrison, nationally known choral director and composer, will lead the choral music workshop which lasts from July 16 to 21.

Harrison is a graduate of both Tufts university and Juillard School of Music. He served as a lecturer on Negro folk music, Harrison has served as assistant conductor for many choral festivals at schools and colleges throughout the country. He recently returned to his home in Hollywood from a State Department "good" will tour of Europe, conducting choral music in Germany, Austria, Switzerland and Norway.

The workshop is designed to provide either graduate or undergraduate credit to those who attend. College students whether they normally attend SOC or not, but who are interested in choral music should contact Dr. Cecil at the college music department for additional information.

Worker Electrocuted As Pile Touches Line
Arlington—J. John Burke, 25, was electrocuted Tuesday on a farm near here when a 40-foot piece of irrigation pipe he was holding touched a power line.

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Proposed Tax On Dividends Is Explained

By JESSE BOQUE

UPI Financial Editor

New York—Some of the figures in the New York stock exchange shareholders' census released last week, help to explain why the proposal in Congress to tax dividends and interest through withholding at their sources aroused so much attention.

It would affect so many people of voting age. All persons owning stock which pays dividends are required by present law to pay tax on those dividends, if they have income subject to taxation under present federal tax laws.

Proponents of the withholding measure argue, however, that many persons often do not pay the taxes which they should pay on that portion of their income derived from dividends and interest. The withholding measure would close a \$600 million loophole in tax collections.

Protect Persons
They say provisions could be made to protect those persons who may receive dividends but whose total annual income is not subject to taxation.

The NYSE study, fourth of its kind, breaks down the estimated total number of shareholders—which it puts at new high of 17,010,000 in 1962—by age, by sex, and by region.

Out of the total, it reported 304,000 not classified by age, and 430,000, or 2.7 per cent of the remaining total, were under 21 years of age.

Deducting the total of these two, and making no allowance for persons who fail to exercise their prerogatives as citizens, this leaves 16,280,000 persons of voting age who are stockholders.

That is nearly 24 per cent of the entire number of persons, 68,838,000, who voted in the presidential election year of 1960.

On a basis of one voter in every four would be affected by the proposal to withhold the tax at its source.

Also, according to the survey, a high percentage of the adult owners of stock, those over 21, are drawn from the educational brackets which presumably furnish a high proportion of voters.

The census showed 5,007,000, or 18.5 per cent of the total, had three years of high school or less. But 29.7 per cent of the great figure, 4,828,000 persons, had four years of high school; 20.2 per cent, or 3,284,000 had one to three years of college; and 31.6 per cent, or 5,137,000, had four years of college or more.

The census used the same 304,000 figure for those not classified by education that it used for those not classified by age.

On a basis of household income, the largest percentage of shareholders is in the \$7,500-\$10,000 class, the census said. Household income was defined as that based on 1961 income before taxes and including the total combined income of all members of the household.

Next largest, 21.5 per cent, was in the \$5,000-\$7,500 class; followed by 19.5 per cent, \$10,000-\$15,000; 12.4 per cent, \$5,000-\$5,000; 12.1 per cent, \$15,000-\$25,000; 6 per cent, under \$3,000; 4.8 per cent, \$25,000 and over.

Redmond Coldest Place in Nation

Redmond—29° Temperatures of 29 degrees Sunday night and 30 Monday night in Redmond were the lowest in the nation, but Redmond farmers aren't worried yet.

County agent Jim McAllister said the low temperatures might reduce the size of the harvest and set back the harvest date for December county's 1,400 acre potato crop.

Backyard gardeners were hit by the freeze, however, with most losing vegetable sprouts.

McAllister said that a freeze "would really have hurt us two weeks from now."

The freezing temperatures were the coldest in July in the county since 1955, according to records.

Amateur Musicians Increasing In U.S.

Chicago—29° Music-making in America has grown faster than any other leisure-time activity, according to a new survey by the American Music conference reports.