

Rockets to Study Dangers of Space

Washington (Science Service) - A basket ball-sized rocket probe this year will help determine how dangerous the earth's radiation belts will be to astronauts.

A four-stage, solid-fuel Argo D-8 research rocket will be used to hurl the vehicle to heights as great as 10,000 miles. The payload is called NERV, for Nuclear Emulsion Recovery Vehicle. It will be cone-shaped and weigh 75 pounds.

Developed by the General Electric company for the National Aeronautics and Space Administration, it will contain a die made of special sensitive material called nuclear emulsion. An electro-mechanical shutter will protect the material until time for exposure.

After its trip up, the unit will re-enter the atmosphere and drop somewhere in the Pacific ocean range. It will float, stain the water with dye and broadcast an electronic signal to aid in recovery.

Space Chamber Has No Home Comforts

Seattle, Wash. (Science Service) - A stress chamber nearing completion here will simulate six hazards of space travel: noise, intense light, vibration, changes in barometric pressure and variations of temperature and the composition of various gases.

The test chamber, being set up by the Boeing Airplane company here, will permit tests of human capability to withstand stresses in combination.

As a "pilot" sits performing tasks, such as identifying simulated targets on a radar screen, he may be subjected to the chamber's walls being heated to 400 degrees, air pressure changes as with altitude changes, piped-in noise simulating blast-off and other stresses.

Photos Taken of Chain of Galaxies

Chicago (Science Service) - A chain of five galaxies, one of the "most remarkable objects" in the sky, has now been photographed with the 82-inch telescope at the W. J. McCord on a 14 observatory in Texas.

The five galaxies are believed to be physically connected. If they are arranged as a chain in space, it is unlikely that this configuration is stable.

It is also unlikely that the chain is due to chance, Drs. F. M. and G. R. Burbidge report in the current Astrophysical Journal. The husband and wife astronomers team work at the University of Chicago's Yerkes observatory, Williams Bay, Wis., and McDonald, operated jointly by the Universities of Chicago and Texas.

Quintets of galaxies are very rare. The Drs. Burbidge suggest that this system represents some transient stage in the formation or evolution of small groups of galaxies. Galaxies are groupings of billions of stars, and there are countless billions of galaxies in the universe.

Northeast to Have Low Temperatures

Suitland, Md. (Science Service) - Temperatures will average below seasonal normals during the next 30 days in the northeast fourth of the nation, the Southern Plains and the Pacific Northwest, U. S. Weather Bureau long-range experts predicted here.

The 30-day outlook calls for temperatures to average above normal for the Rocky Mountain states, the Northern Plains and along the Gulf Coast. In the remainder of the country, temperatures are expected to be near normal.

Rainfall is expected to exceed normal in the north Atlantic states, the Southeast, the extreme Northwest and the Southern Plains. Subnormal amounts are forecast for the Midwest and far Southwest. In areas not specified, precipitation should average near normal.

GERMAN NAVY BUILDUP - Bremen, Germany (AP) - The new West German navy has passed the one-third mark in its goal of 350 warships, it was announced Tuesday. The navy now has 137 ships, including six destroyers, seven frigates, and two submarines. Twelve submarines, four destroyers, and six frigates are under construction.

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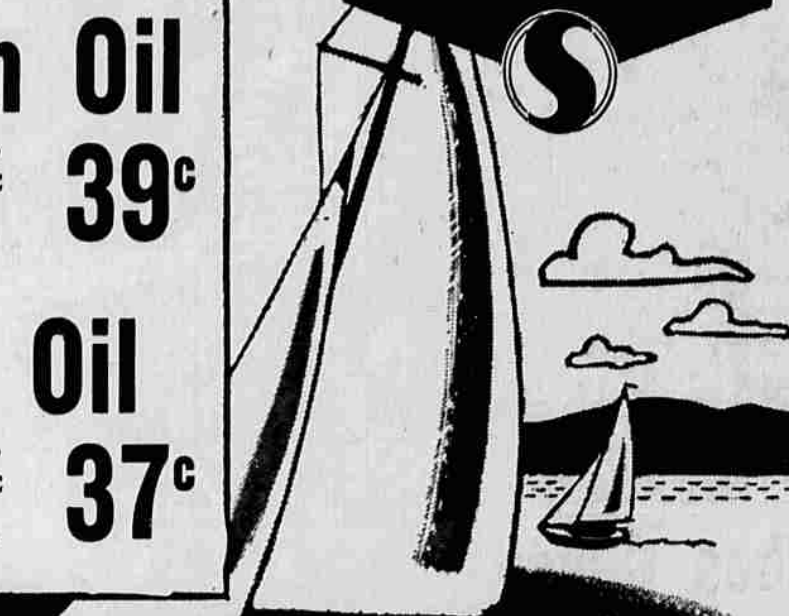
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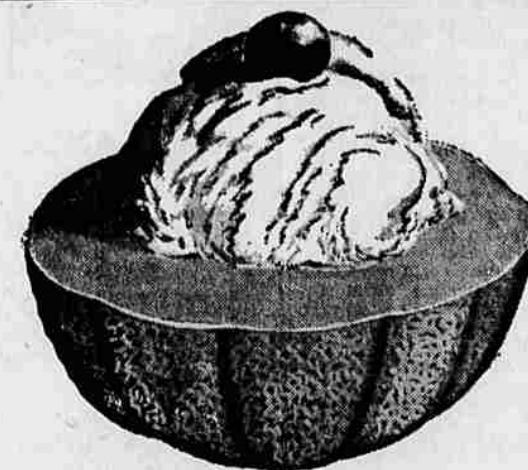
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Engineers More Productive When Specially Treated

Ann Arbor, Mich. (Science Service) - Staff scientists and engineers are most productive when they are recognized and treated as highly skilled individuals. This is the conclusion of the bureau of industrial relations of the University of Michigan which interviewed 90 supervisors and 277 scientific and engineering staff members of ten selected companies.

The bureau summarized the striking differences between professional workers and other groups of employees as:

1. Scientists and engineers are more responsible, objective and involved in their work.

2. They want greater individual freedom and less routine supervision.

3. They show greater need for tangible and intangible rewards for their work and ideas.

4. They are more ambitious, creative, analytical, introverted and emotional.

5. They have broader, higher and more definite goals.

Professional staff members studied found greatest satisfaction in their jobs when their work was varied, included a balance of laboratory and technical work, and permitted personal responsibility for the entire project.

They disliked drafting, clerical and routine tasks, report writing, certain aspects of basic and applied research and other "non-engineering" or "non-scientific" work.

Serious Problems - The most serious problems of young professionals were insufficient technical preparation in school, inadequate psychological preparation for work in industry, and difficult adjustment from academic to industrial standards, systems and pace.

Complete details of this study are included in a book recently published here by the University of Michigan, "Characteristics of Engineers and Scientists," by Lee E. Danielson, professor of industrial relations at the university.

Nuclear Turbine Planned for Space

Washington (Science Service) - The Air Force has ordered a 300,000-watt nuclear powered turbine for use in a space-the largest space power project ever undertaken by the U.S.

The system is planned to have a potential of being developed into a million-watt unit. Called "Spur," the unit will weigh about eight pounds per 1,000 watts of power produced-2,400 pounds for the first power station and 8,000 pounds for the million-watt unit.

Under the Air Force contract with Garrett Corporation's A Research Manufacturing division of Arizona, the small atomic reactor will supply electricity for space needs. A turbine engine will convert the atomic energy to usable mechanical power.

Unlike conventional engines, the space turbine will constantly recycle liquid metal. The Atomic Energy commission and the Wright Air Development division in Dayton, Ohio, will jointly manage the Spur project.

Dim White Dwarf Star Discovered

Cambridge, Mass. (Science Service) - The dimmest white dwarf star yet discovered has been found by Dr. W. L. Luyten of the University of Minnesota.

White dwarf stars are superdense objects having about the same amount of matter as the sun packed into the volume of a planet. They are very faint, blue-white stars with a natural brightness only about a thousandth that of the sun. White dwarfs are believed to be the final stage of a star when it has settled down to shine feebly for a long time.

Dr. Luyten reported to Harvard College observatory here that LP 321-98, as the star is called, is "probably the least luminous white dwarf now known." The star was among 20 of this class recently discovered by Dr. Luyten.

Also reported by Harvard College observatory here is discovery of a fast-moving object visible from the Southern Hemisphere.

France raised its industrial output in 1959.