

Participation of adults in science activities could be developed so that numerically it would be just as large, perhaps even larger, than the participation of youth in such activities. A study made in Philadelphia some years ago showed that there were as many amateurs of adult age as there were science club members.

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articles. We pioneered in science on the radio. Our personal subscription services are important. Our weekly SCIENCE NEWS LETTER magazine has a significant circulation. THINGS OF SCIENCE is a unique monthly service. CHEMISTRY magazine covers an important field. We are a national center for science information.

The science youth movement developed by SCIENCE SERVICE has been financed modestly out of the limited resources available through income from our non-profit activities, largely publications, supplemented by a limited income from the original E. W. Scripps endowment.

The opportunities for investment in the science of the future now far outrun the resources available. We are proud of what has been accomplished. Our service to the science clubs can not be placed on a self-supporting basis, as some of our other pioneering science popularization efforts have been. We feel justified in suggesting that financial aid be given our activities, particular those in the science club field, in order that the urgent opportunities be realized. We shall discuss gladly in detail the possibilities.

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journal, NATURE (July 7), as a substance active against tuberculosis in the test tube and in guinea pigs, with low toxicity. Chemically the product was prepared by the action of sodium hydrogen sulfite on 5-nitroso-8-hydroxyquinoline.

In the guinea pigs infected with tuberculosis, T 28 was not as effective as streptomycin, which is being used widely in treating some kinds of tuberculosis. It is nevertheless being tested clinically.

The investigators were Drs. T. Urbanski, S. Slopek, and J. Venulet.

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#### ENTOMOLOGY

### Light Helps Hatching Of Damaging Mite

► LIGHT PLAYS an important part in the hatching of the fruit tree red spider, a mite that does extensive damage to common fruit trees in Europe, the United States and Canada.

This eight-legged pest belongs to the same family as spiders and is therefore not a true insect. The mite's damage is not inflicted directly upon the fruit, but its sucker-mouth robs the fruit tree leaves of sap, thus weakening the tree and making the leaf a less efficient factory for changing sunlight into energy.

Although only about half-pinhead size, the female red spider is nevertheless prolific—laying hundreds of eggs, usually on the tree's twigs, before dying. If laid in the fall, the eggs do not hatch until the following spring, and it is these winter-eggs, Dr. H. J. Hueck of the University of Leyden in Holland reports in the journal, NATURE (June 16), whose hatchings are influenced by light. More break through the shell when exposed to the daylight than when kept in the dark. By passing light through variously colored filters, he also found that a considerably higher percentage of eggs hatched in blue light than in red.

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#### INVENTION

### Patent Bed Mattress Designed for Invalids

► BED MATTRESS with a compressible center section, designed particularly for invalids, permits sanitary facilities to be inserted under a bedridden patient without moving the person. Compression of this mid-section is made with the aid of straps passing through it and mechanism by which tension is easily applied to them. Inventors are Alexarena Hay, Glace Bay, and Starr R. McLeod, Sydney, both in Nova Scotia, Canada. Patent 2,559,956 was awarded to them.

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#### PUBLIC HEALTH

## Aerosol Process for BW

Enemy biological warfare agents could spread death easier by making use of aerosol process, familiar in method for killing mosquitoes.

► ENEMY BIOLOGICAL warfare agents have a much simpler problem in spreading death if they make use of the "aerosol" process familiar to thousands who use it to kill mosquitoes or make whipped cream. By spraying disease agents through the air—which is what the aerosol process does—they can leave out some of the steps to infection usually necessary in natural disease.

Drs. S. Edward Sulkin and Robert M. Pike of the Southwestern Medical School of the University of Texas found that laboratory-acquired infections do not always follow the pathways of transmission established for the naturally occurring disease. Yellow fever, they pointed out, developed in laboratory workers in the absence of mosquitoes to carry it. A venereal disease, lymphogranuloma venereum, developed without the usual contact between persons.

The two scientists attributed this to the release in the laboratory of agents "properly dispersed in the environment." This means that the agents were thrown out into the air of the laboratory in a fashion such as is done by an aerosol bomb, or might be done from an enemy plane.

More than 70 different disease-producing agents were involved in the study done by the two scientists for the government's National Institutes of Health. Bacteria, viruses, fungi, rickettsiae and protozoa were represented.

They concluded that "these examples should be of interest to those concerned with protection against biological warfare because they suggest that even in the absence of some of the links in the usual chain of transmission a given agent might be a potential danger if properly dispersed in the environment."

Their conclusions appear in the journal, SCIENCE (July 13).

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#### MEDICINE

### New Chemical Tested Against TB in Warsaw

► HOPE OF a new chemical for use in treating tuberculosis is reported from Warsaw where a scientific team is beginning tests upon human patients.

The new chemical is called T 28. It is reported in a communication to the British