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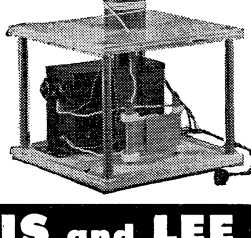
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Science in Chilean Life

(Continued from p. 258)

portant in the Eastern Hemisphere as the Western.

New techniques to determine the location and extent of as yet unfound ore deposits are of great significance in the economic development of a country such as Chile, which has potentially such a great mineral wealth. I understand that studies of this type are being actively pursued by the Institute of Geological Research.

Studies in physical oceanography offer many potential benefits, such as harnessing the tides and ocean currents for power. Exploitation of the plant and animal resources of the sea promises, I think, even more rewarding benefits.

In a world where much of the population goes to bed at night hungry, where protein deficiency is widespread, the potential benefits from harvesting the sources in the sea are spectacular. The successful conclusion of experiments now under way in Chile producing fish protein concentrate on a pilot plant scale could be of far-reaching benefit to mankind.

We need more research in methods of influencing the biological cycle of the sea and in techniques leading to farming fish

rather than hunting them. Such programs might pose a challenge for scientists in the Fish Development Institute in Chile.

Progress in any of these scientific fields depends not so much on dollars as on manpower. One of your symposia considered "Scientific Manpower and Education."

This necessity — the development of trained manpower, including scientists—is an essential component of Chile's goals. It will continue to receive close attention by Chilean authorities and the U.S. AID Mission.

As you know, because of the particular importance of science and engineering in economic development, a special committee of the Pan American Union has been set up to investigate the science and engineering education programs in Latin America.

Studies have already been carried out in several countries. It is good to know that the study for Chile has now been completed.

Let this meeting of scientists from Chile and the United States, gathered within the spirit of hemispheric cooperation, be interpreted by all as a certain sign that we stand together, ready to attack any and all to overcome any scientific or technological obstacles in the path of the economic progress of the peoples of the New World.

• Science News Letter, 86:258 October 24, 1964

MEDICINE

New Throat Cancer Test

➤ A NEW WAY to detect throat cancer has been reported by Yugoslav scientists who used an ultraviolet lamp to produce fluorescence after giving a patient the antibiotic tetracycline. This drug has been shown to respond to fluorescence previously.

The scientists reported preliminary work with one person, but believe future experiments will also be successful. They are constructing a special ultraviolet lamp for future use on the ear, nose and throat, and believe it will have value not only for diagnosis but also for possible treatment and for forecasting the future course of a cancer.

This is not the first time that tetracycline has been used in conjunction with fluores-

cence tests in detecting cancer. So far, diagnoses of cancer of the stomach and bones using this method are the only ones reported in this country.

The Yugoslav researchers called attention of previous work in the United States done by a team including Drs. J. Edward Berk and Sheldon M. Kantor of Wayne State University College of Medicine on detecting stomach cancer by fluorescence tests. SCIENCE SERVICE reported these studies, which appeared in the Journal of the American Medical Association, March 31, 1962 (SNL 81:235, April 14, 1962).

After their patient was given tetracycline, the scientists reported they were able to see a tumor the size of a hazelnut in the lower end of the larynx when it was illuminated by an ultraviolet lamp. Tetracycline is a yellow, crystalline antibiotic, used in treatment of a number of infections.

The investigators said they saw a distinct fluorescence in the region of the tumor and also in some places that, with the naked eye, looked healthy.

After surgery, the larynx was again observed in ultraviolet light, and the researchers saw a distinct yellow fluorescence. They are looking forward to construction of an ultraviolet lamp especially for ear, nose and throat tests. They foresee value in the future not only for diagnosis and possible treatment, but also for forecasting the probable course of the cancer.

Drs. J. Krmptotic, M. Lipozencic and N. Sipus reported the Yugoslav study in the Bulletin Scientifique, published in Zagreb, 9:11, 1964.

• Science News Letter, 86:270 October 24, 1964

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