EPIDEMIC HYSTERIA DUE TO SIBERIAN WINTER

Extremely difficult living conditions in Arctic regions result in the peculiar nervous disease known as arctic hysteria, according to studies made by Stanislaus Novakovsky of Clark University.

In northeastern Asia the malady is especially prevalent among women. It often shows epidemic features, one native after another indulging in howls, grimaces, gestures and curious bodily positions. Settlers in northeastern Siberia from souther Russia, where the disease is unknown, frequently develop it. It becomes less and less prevalent the further south one goes.

Winter in the Arctic, with its cold and its unhygienic living conditions, exhaust and leads to nervous disarrangements, Mr. Novakovsky believes. The summer, with its monotony of perpetual day, its shortness, and the worry over securing a food supply for winter, affords scarcely any relief.

MAGNETIC ISLAND FOUND IN ALASKAN CHANNEL

Sinbad the sailor's remarkable story of a magnetic island is partially confirmed by reports received from Commander F. B. T. Seims of the Coast and Geodetic Survey steamer Explorer. East Island, in the Revillagido channel to Alaska, is the source of magnetic disturbances.

Observations on the shore of the island show that magnetic iron ore is present in the rocks. This attracts the compass needle to one side and renders it wareliable while the ship is passing the island.

The only way to get rid of the disturbance would be to mine all of the rock containing the ore. Since there is a deep channel around the island such drastic measures are not deemed necessary. Pilots of vessels must use caution when running in foggy weather in order to keep from going on the rock near there.

Slight magnetic disturbances have been noticed near Juneau and Port Smetifham also in Alaska.

The location of magnetic East Island is about 54 degrees and 52 minutes north latitude and 131 degrees and 12 minutes west longitude. The variation of theneedle is four degrees east on the island. On a line southeast from the island and one and one half miles off shore it is 11 degrees, one mile off it is 21 degrees, and four miles off the compass is normal.

ANCIENT TRIBAL RELICS FOUND IN NORTHWEST

A hundred pounds of colored beads, scores of brass ornaments of all kinds, many other curious besides several leather pounches of what is said to be war paint, have been unearthed by scientists from the history department in the University of Washington on the lower Elwha river in the northwest corner of the United States.

The Indian relics were discovered by digging in an old burial ground, and while some of the articles reflect the influence of early white traders, there are many which appear to have been buried generations before explorers invaded the

northwest. The brass arm bands, brass thimbles, and brass balls bored for stringing are goods of early traders. As many as forty to fifty brass balls were found upon one skeleton.

Evidence was unearthed that at some distant time either war or pestilence visited the northwest tribes and took great toll. This was indicated by forty skeletons found in one grave.

Increased efforts are to be made late this year to recover enough of the rare specimens of aboriginal culture to enable scientists to identify the origin of the first inhabitants of the heavily timbered northwest regions.

TOMATOES POSSESS RADIO-ACTIVITY

Radium, the valuable element used in the treatment of cancer, and out humble red, ripe, tomatoes have one property in common. They are both radio-active.

Experiments conducted by Dr. C. F. Langworthy of the U. S. Department of Agriculture, who has been investigating the problem for some time, and W. H. Wadleigh, of the Bureau of Standards, have proved for the first time that a food stuff has the distinguishing property of the chemical element that produces the world's shortest rays. Tomatoes will not, however, be used in the treatment of disease for their radio-activity is very slight.

Tomatoes, used for convenience in this experiment rather than some other food, were purchased in the open market. They were washed with distilled water to remove any trace of radio-activity they might have absorbed from the air. Then they were put through a food chopper and the pulped fruit and juice, about 900 centimeters, was poured into a flack, hermetically sealed.

Six days later, to give the tomatoes a sporting chance to give off as much of the emanation as possible, the test for radio-activity was made. This was found to be present at a rate of three millimicrocuries per liter. A curiesis a measure of the amount of radium emanation, a gas, found in equilibrium with one gram of radium that has been kept hermetically sealed for thirty days. A millimicrocurie is one billionth of this amount.

As Mr. Wadleigh had worked with radium a great deal and as his hands were radio-active, Dr. Langworthy prepared the tomatoes for the test to prevent any contamination of the tomatoes. For the experiment a modification of Boltwood's well known test for radio-activity was used. The gas was collected over mercury instead of water, to prevent any absorption of the radioactive gas, and fresh, outdoor air was bubbled through the apparatus, during the test.

After boiling the tomato juice and pulp, in an apparatus very like a double boiler, for one hour the gas collected over the mercury was introduced to the ionization chamber of gold leaf electroscope. By the falling of the gold leaves it was seen that radio-activity was present. The rate of the falling was compared with the action produced in the same instrument when using a known amount of radium emanation. In this way they computed the amount of radio-activity of the tomatoes.

"Of course," said Dr. Langworthy in regard to the experiment, "no generalization can be drawn from one vegetable. It does, however, open up a fiewfield for scientific investigation.