

cidence of cancer by regulating any one of the causes. The most effective method, since it does not interfere with continuation of the stock, is to eliminate the milk substance by foster nursing.

These facts apply to mice. Surveys

are now under way to find whether the same simple method will control cancer in women. The surveys are being made by the University of Minnesota and Ohio State University.

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## GEOGRAPHY

## Magnetic Poles Move

➤ GET OUT that old geography book and spot the magnetic north pole. The conventional location has been in Boothia peninsula north of Hudson Bay. Now it is in McClintock Sound.

Records of the world's leading magnetic investigators at the Carnegie Institution of Washington show that there has been actual movement during the past 40 years.

Here's the history of the imaginary spot to which the magnetic needle points:

Back in 1831, Capt. James C. Ross located the pole on Boothia peninsula in far northern Canada. Maps have had it there since. When the explorer Amundsen was in the region in 1904, he found the old location to be correct.

But after 1904, the pole began to migrate. Now it's more than 200 miles

from where your school geography placed it.

Unpublished charts completed by the Carnegie Institution of Washington explain why compass needles on the "Pacusan Dreamboat's" flight from Honolulu to Cairo still pointed north as the big plane flew north of the proverbial location of the pole. The plane was still south of where the north magnetic pole of the earth is now. An earlier flight of the RAF Lancaster "Aries" in May, 1945, also showed that the pole had moved.

The south magnetic pole, too, has moved north and west about 200 miles in King George V Land in the Antarctic. But less attention has been paid it because navigators use the north-seeking point of the compass needle.

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## MEDICINE

## Hang-Overs Can Aid Cure

➤ HANG-OVERS are "significant events" in the life of an alcoholic. Proper handling of him at this critical period may sober him up permanently or at least add to his chances of eventually recovering from his Lost Week-End state.

This new and scientific approach to what most persons consider a nuisance or a subject for humorous remarks is taken by Dr. Giorgio Lolli of Yale University, director of the Yale Plan Clinic.

During the hang-over, both the psychological difficulties the alcoholic has been trying to escape through alcohol and the physical symptoms resulting from the alcoholism are magnified. In the early part of the hang-over the lingering presence of alcohol in his body depresses his central nervous system which includes the brain. Consequently he has less resistance and can more readily talk about the things in his life which drove him to drink. This gives the psychiatrist a chance to help him.

Medicines to relieve his misery and let him sleep are important first steps in the treatment Dr. Lolli outlines. The fact that he is being treated as a sick person and not a sinner helps the alcoholic. He gets more help when he finds that his mental and physical pain can be relieved by means other than alcohol.

Dr. Lolli does not approve of the "tapering-off" method of helping the alcoholic through his hang-over. In many cases the patient can be treated at the clinic or office, but some whose emotional and mental difficulties are serious and long-standing need to be put in an institution. The doctor should see the patient often, possibly every day, during recovery from the hang-over. This satisfies the alcoholic's overwhelming need for someone to depend on and makes it easier for him to keep away from liquor.

Details of Dr. Lolli's studies and method of treatment are reported in the *Quarterly Journal of Studies on Alcohol* (Sept.).

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## MEDICINE

## Bacteriophage Removes Infection from Wounds

➤ A NEW-METHOD of treating wounds with germ-eating bacteriophage was announced by Dr. V. Kolesov, Leningrad surgeon, at the meeting in Moscow of the All Union Congress of Surgeons.

The method consists in flooding the wound with the bacteriophage preparation. If the infection was localized in the surface layers of the wound, it could be removed by this method. Frequently used in Soviet military hospitals during the war, the method had beneficial effects in over 1,000 patients suffering from various surgical complaints, Dr. Kolesov reported.

Soviet doctors successfully used bacteriophages in dressing wounds to prevent severe complications. Localized applications to infected wounds of soft tissues gave positive results in 82.9% of such cases. The most effective preparation, Dr. Kolesov reported, proved to be the bacteriophage manufactured in the Metchnikov Bacteriological Institute in Moscow.

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## CHEMISTRY

## Natural Gas Product May Aid in Can Plating

➤ NATURAL GAS may be the means of freeing the United States from its present galling dependence on foreign sources for tin. Biggest use of tin, of course, is for coating sheet steel used in cans. A du Pont chemist, Milton J. Roedel, has invented a process for coating sheet metal with a solid polymer of ethylene, one of the constituents of natural gas, which is claimed to give at least as good protection as the conventional coating of tin.

The gaseous ethylene is turned into a solid suitable for coating purposes by subjecting it to very high pressures and moderately high temperatures. Dissolved in xylene and applied to black sheet steel in a layer one thousandth of an inch in thickness, then baked on, the polymer coating is flexible enough to withstand the bendings and crimpings encountered in can manufacture, and has high resistance to both acids and abrasion.

Rights in Mr. Roedel's patent, No. 2,406,039, are assigned to E. I. du Pont de Nemours and Company.

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