

## Do You Know?

The disease known as *latent mosaic* in potato plants usually has little effect on the appearance of the plant but may cut the yield 20% or less.

Over 90% of British Honduras, Central America, is *forested*; some of the forests, however, cannot be made profitable. Mahogany, pine, rosewood and cedar are the principal timber woods.

*Grog* to a sailor is rum weakened with water; its name is said to have originated with sailors because the first dilution was ordered by an English admiral called "Old Grog" who always wore program breeches.

Germans built 10 *helicopters* before their manufacturing plant was bombed out by the Allies, postwar investigations show; the rotor craft could climb 1000 feet a minute with 10 passengers and a load of fuel.

*Organic chemicals*, called wetting agents, are mixed with water to control dust from coal and other solids that have water-repellent properties which making wetting difficult; also the agents decrease the high surface tension of plain water.

Without the *forests* of Japan, its agricultural lands would soon wash away; the vast timberlands on the rugged slopes of hills and mountains hold the waters from rain and snow, preventing floods and erosion.

Between 40% and 50% of all *children* contract whooping cough before the fifth year.

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### MEDICINE

## Stomach Ulcer Sufferers Are Dependent Type

► MEN WITH stomach ulcers, no matter how aggressive they may be, all suffer from a thwarted desire to be dependent on someone else, Drs. Frederic T. Kapp, Milton Rosenbaum and John Romano, of the University of Cincinnati College of Medicine, found from a study of 20 ulcer patients ranging in age from 17 to 54 years.

Some of the patients were outwardly independent, hard-driving and successful, following the usually accepted type of ulcer personality. But the behavior of these go-getters was only an excessive compensation for deeply repressed longing to depend on someone.

A second group of patients, fairly successful men, were outwardly meek, shy and effeminate. They were partly conscious of their dependent longings and openly depended on a mother or wife but at the same time made a partial effort at masculinity and independence.

The final and largest group in the 20 patients studied openly indulged their strong dependent desires. Chronic alcoholics and others with severe character disorders, bordering on the psychopathic, were included in this group.

Science News Letter, June 8, 1946

### CHEMISTRY

## New Process Polishes Silver While Coating

► SILVERWARE CAN now be both plated and polished while still in the electroplating bath where the silver coating is applied. It is a new process, discovered by a Westinghouse scientist. When taken from the bath the object plated has the luster that housewives demand; no buffing is needed to give the required polish.

It is an important discovery to all manufacturers of silver-plated objects because it saves material, time and cost. In the conventional silver-plating process, the object when silver-coated and removed from the bath has no luster and must be buffed by hand on a revolving wheel. Much silver is lost by abrasion and extra handling is required.

In the new process, the objects to be plated are immersed in the usual silver cyanide bath and the negative current, that causes the deposit of silver, is sent through. This negative current, how-

ever, is interrupted by intermittent positive charges, and these cause the luster. The positive current, of about four times the amperage used to plate the metal, is applied for a few seconds, discontinued, and sent through several times again. Any silver removed by the positive current remains in the bath.

Science News Letter, June 8, 1946

Drafts, sudden temperature drops, sex, age, and working posture all determine the number and severity of *colds* a person may have.

*Honey* is formed from the nectar of flowers after chemical changes take place when the bee mixes it with juices in its stomach.

*Antu*, one of the new efficient rat poisons, is chemically alpha naphthyl thiourea, and is particularly effective in killing Norway rats, the common kind found in American towns and farms.

The dangerous age for young *pedestrians* from motor vehicles is from four to six; youths of 17 are the principal juvenile victims of motor-vehicle fatalities affecting drivers and passengers.



**ONE OPERATION**—The teaspoon on the right has been silver plated but not polished. The other has undergone the new-born electro-polishing process perfected by a physicist in the Westinghouse Research Laboratories. The new method may supersede the burnishing of silver plate by mechanical buffing. The transformation takes a little more than a minute.