

bacteria, but it cannot be grown in test tubes in the laboratory.

Fowl pest is also caused by ultramicroscopic bacteria. It existed in the United States last year, and is believed to have been spread from a sample of virus brought into the United States for study at one of the large eastern universities. Prompt measures eradicated the disease.

The organisms of Fowl pest are very resistant under certain conditions and can survive for at least seven months in artificially stored blood. Fowls are more susceptible to their own special diseases than mammals and man are to theirs. Their semi-wild nature prevents their easy isolation and individual treatment, while their habit of flocking allows infection to spread rapidly.

The ultramicroscope, which uses X-rays instead of ordinary light, and can see what the ordinary microscope fails to reveal, has already been employed in the study of the minute forms of life that cause various animals diseases. So far the results have been only partially successful but research of this sort has just begun, and the possibilities are unlimited, Dr. Bunyea said.

-----

#### RADIATOR ALCOHOL DISSOLVES AUTOMOBILE LACQUER

Alcohol is a splendid lacquer solvent. Many automobile owners whose cars are finished with fine lacquers are discovering this to their sorrow. With enamels and varnishes these owners have not taken care to keep the alcohol for their anti-freeze radiator solution off the car finish. The spotting which resulted was negligible with these older forms of car finish, but with the new lacquers the results are disastrous.

Auto owners are warned by dealers selling automobiles that are finished with lacquer against allowing any form of alcohol to splash on these surfaces. In fact they must be careful that the vapor from a boiling radiator does not drift back over the engine hood. Because of these facts several builders of high-class automobiles are now recommending against any form of alcohol for antifreeze use. Instead they recommend using glycerine or ethylene glycol solutions.

Anti-freeze solutions made from glycerine or ethylene glycol have other advantages too. From the standpoint of the automobile owner perhaps the most important is the fact that if they are accidentally spilled or boil over onto the lacquered surface no serious harm is done. The research laboratory of the largest manufacturer of moderate and high priced automobiles in the world has made a careful study of this situation, and the subsidiary corporations are issuing corresponding information to their dealers and distributors throughout the country.

-----