

ICE ON AIRPLANE WINGS OFFERS DIFFICULT PROBLEM

Fatal Crash Involving Knute Rockne Instigated
Scientific Investigation Seeking Solution to
Hazardous factor

WASHINGTON, D. C., Feb. 10—Ice ample, clear ice, the most dangerous has been known to form on airplane and rapidly forming type, is more like wings at the rate of one inch per minute to form in warm air. This is regarded as, obviously, only a few minutes by some observers as definite proof of such a phenomenon would be sufficient that there is really nothing wrong with client to bring a plane crashing to instruments which show ice forming earth because of the tremendous sudden temperatures even above 34 degrees denly added weight. So far as all the time, the ice which readily shakes investigations into the plane crash off, is formed in cold air.

Perplexing Problem
Before and with accelerated effort Adiabatic cooling is a phenomenon since that accident, aircraft engineers of physics accomplished by a number have devoted close study to the icing problem and the department of commerce now is in a position to report when an airplane is plunging at high on some of the findings. Not until speed through the air. The air may some solution can be found will be static or nearly so. Along, comes hazards of flying in even moderately a plane at 100 or even 200 miles an cold weather be reduced. hour. The degree of turbulence produced can be imagined. Of course, ice regarded as the maximum freezing temperature, but tests have shown that ice forms on airplane wings at a temperature of 34. Indeed ice has appeared. For example, in Death Valley, the ed to form at even higher temperatures, but the experts think there have been some aberration of the instruments to account for this, the temperature really being lower than registered. However, the fact that there seems to be no doubt that ice forms on wings at 34 may mean that there is something about the high rate of speed at which the planes are thrust against the air which induces a purely local condition hospitable to ice formation.

The grave danger from ice can be recognized from the speed of formation. Not even in Arctic climates does still water freeze at the rate of one inch per minute. It is the speed of the airplane which produces this extraordinary phenomenon. With the air plane moving at high speed into moist air, one paper-thin glaze of ice is almost instantaneously superimposed on another until the build-up is dangerously heavy.

The reports on the Rockne disaster were to the effect that the airplane ran from one atmospheric temperature into another with a drizzle of rain. Such conditions would be ideal for rapid ice formation. Moving at 100 miles an hour, a pilot may not instantly realize the changed atmospheric conditions he has encountered and before he realizes what is happening, so many inches of ice have formed on his wings that the weight is overbearing.

Types of Ice Formation
The investigation has shown that there are three distinct types of formations on airplane wings. Rain makes the most dangerous type. This is called clear ice. It is smooth and glassy and extremely tenacious. It can not easily be shaken loose. This is the type that forms as rapidly as an inch a minute. Then there is rime which is whitish opaque and builds out irregularly on wing edges. This is not regarded, as so dangerous because after a quantity has formed, the airplane vibration will shake it loose. The third type is merely called frost. This can build up if a plane keeps moving at high speed but will disappear quickly when the plane slows and reaches about the same temperature as the air through which it has been flying.

This icing of airplane wings is the result of seemingly paradoxical natural actions which have been discovered in connection with the study. What have been established as absolute facts seem to fly in the face of what the layman would be inclined to regard as the merest common sense. For ex-

ACCUSED ASSERTS BOY WAS HIS SON

Trial For Abduction 31
Years Ago Continues
At Sheffield

Sheffield, Eng., Feb. 9—The trial of Henry Ross for a kidnapping alleged to have occurred 31 years ago, continued today before a packed courtroom, which hung on the word of Mrs. Jane Woodward, from whom Ross is charged with stealing her son by a previous marriage.

Prosecutor J. J. McAvoy charged Ross had stolen the child after receiving permission from his mother to take the boy on a fishing expedition. Mrs. Woodward, then Mrs. John William Whitnair, did not see her son again for five years. Ross admitted sailing with the child to the United States, where he kept him in Newark, N. J.

No statement as to the identity of the child's father was made by Mrs. Woodward in her testimony today.

Testifying in his own defence, Ross, now a bent, white-haired man of 71, electrified the court room when he claimed he saw the father of the boy, and that the present Mrs. Woodward had begged him in 1904 to take her and the child away from her husband. Mrs. Woodward denied this vehemently and told the court with firmness that for 27 years she had been completely happy with her first husband. Whitnair is dead, and so is the police officer who issued a warrant against Ross more than three decades ago.

Went to Newark

Prosecutor McAvoy told the jury that in 1909 the Whitnairs heard that Ross had gone to Newark and that the child was in his custody. They sent their elder son to New Jersey to identify the boy and Ross surrendered the child. He fled the state, fearing lynching at the hands of neighbors, and recently appeared in Sheffield. The old charge against him was resurrected and the kidnapper who the defence claims was Mrs. Woodward's lover, arrested and jailed.

"The city of Newark," the prosecutor explained in outlining the case, "is in the same state where the Lindbergh trial is now taking place." Ross testifying yesterday, said that it was Mrs. Woodward herself who had told him in 1904 he was the child's father, and that when he gave up the child five years later "I was heartbroken, because I was very fond of him."

Mrs. Woodward testified that when the child was returned to her "I was heartbroken at his appearance. He appeared half-starved." She denied that after the child was returned she became friendly with Ross' relatives here.

She denied that she knew neighbors were gossiping about her association with Ross early in the century.

Prince William News

PRINCE WILLIAM, N. B., Feb. 8—The Ladies' Air of Prince William and Burden met at the home of Mrs. Ersel Moore Thursday afternoon with a good attendance.

Mrs. Arthur Kelly and Granddaughter Beylah who have been visiting Mrs. Murray Long for some time, have returned to their home at Long's Creek.

The men of this place are busily engaged sawing wood.

Mr. and Mrs. Eldon Smith and son Elmer were visiting Mrs. Maine Nevers Monday afternoon.

Rev. W. E. Carpenter held service here last Sunday afternoon.

Miss Mildred Kitchen who has been spending a short time with her parents, has returned to Fredericton again.

Mr. Harry Cliff has gone to Kingsclear to visit friends there.

Mr. and Mrs. Otis Niles and daughter spent Sunday with Mr. and Mrs. Roy Tapley.

Mr. Selby Embleton and sons are loading pulp at Burden Siding.

Just about now a man begins worrying about what he will give his wife for Easter. And she feels so sorry for him that she is almost tempted to take it out of the closet and show it to him.

THE PARASITE

Many men, women and children sufferers are being treated for other diseases without results, when their real trouble is the tape-worm. Sure signs of it is the passage of small particles of the parasite. Suggestive signs: loss of appetite with occasional greediness, coated tongue, heartburn, pain in stomach and intestines, pain in back and limbs, dizziness, headaches, exhaustion, feeling faint with stomach empty, emaciated, dark rings under the eyes. The process of digestion are usually interfered with. The patient becomes irritable and restless at night. There is much dizziness, raising of constant obstruction in throat, gnawing sensation in stomach with voracious appetite—and at times loathing of sight of food. The breath becomes offensive, the face flushed—at other times very pale; heaving as if something were moving in the bowels; heartburn with palpitation; obscure pains in the limbs; delusions of the senses; defection of the speech; sudden colic, insomnia; Melancholia, hysteria and some authors claim epileptic fits and even insanity.

These monster parasites, the size of which it is claimed, sometimes reach as high as 45-50 feet, must be eliminated from the system—at all costs. Only with the greatest possible precaution and skill can they be removed from the system however. But to allow the tapeworm to live untampered in the human body is almost akin to taking small doses of poison, increasing same daily—until the patient actually commits suicide—figuratively speaking. The formula of Tanex is used for the elimination of this terrible monster—And most successfully in obstinate cases. Tanex is prepared to such manner that it cannot harm any of the sensitive internal parts of the human system, and may be safely given in proportional parts to children. Tanex is not harmful in the sense that it may poison the individual harboring a tapeworm—nor is its effects harmful on those who take it where there is no worm. Tanex does not kill the monster tapeworm, as killing it necessarily means the taking of poisons in sufficient quantities to poison the patient. Tanex renders the worm insensible only, so that it loses its power to grasp on and hold to the intestines. The purgative ingredients in tanex then quickly eliminate it. Great care must be exercised however, to permit its passage in accordance with the directions (sent from Tanex), otherwise he head may re-enter the alimentary canal—which means, that another dosage will be necessary.

Tanex may be taken any morning and as it leaves no effects at all, will not necessitate the staying away from work. One hour is required for it to attain full effect.

Tanex, is not sold in drug stores—to insure absolute freshness to the patient. Nor is it sent C.O.D. The treatment costs \$5.00, with full instructions. If you want to be rid of this monster parasite—send for Tanex today. Sold only by the Royal Laboratory, 768 Royal Bldg., Box 104 Windsor, Ont. (Clip this ad out now and put it away, it may come in very handy some day. Show it to some all-grateful to you for doing so.)

ing friend—he may become forever

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