Airplane Scatters Dry-Ice On Top Of Clouds And Starts Snowstorm

By HOWARD W. BLAKESLEE AP Science Reporter

SCHENECTADY, N. Y. - The as snow. scientists who created the first man-made snowstorm over Grey- The General Electric scientists were amazed to see this cloud ner in chemistry change its shape.

scattered from the plane.

the cloud's bottom.

Steamed at the Top

of the stratus formation. These dry ice, dark bottoms, out of which rain cause of icing on airplanes.

cloud turned into ice, this reac- around or in the clouds, tion released a lot of heat. The heat changed the formation of the cloud, to cumulus.

thing vastly more important for seen from his plane, the crystals man's prospects of making snow- caused a brilliant halo around the storms for useful purposes. It set sun. This is also another natural up a chain reaction. That is, al- phenomenon, that probably everythough the dry ice started the one in temperate regions has seen under its own power, and actually single dry ice pellet, the size of a built itself up. Apparently the pea might produce enough ice

extra heat drew more moisture to be precipitated by natural means,

Scientists Explain It

lock Mountain in Massachus ats. who made the snowstorm were by dropping six pounds of dry ice Vincent J. Schaefer and Dr. Irpellets on a cloud three miles long, ving Langmuir, Nobel prize win-

The explanation of the dry ice The transformation began about pellets is that each one, due to two minutes after the dry ice was its intense coldness, about 110 degrees below zero, chills nearby The cloud originally was wide droplets of water so rapidly that and somewhat flat, a stratus type, they form tiny bits of ice, prob-The first step in the change was ably too small to be visible under streamers of snow pouring out all a microscope. These bits act like seeds, a drop of snow forming, from each one. This process then Quickly after that pillars of spreads automatically to nearby cloud began to rise from the top areas not directly cooled by the

pillars were cumulus, that is, the - In the Greylock Mountain cloud familiar high-piled cloud forma- the water particles were still liquid. tions of summer, that frequently although below freezing in temcarry rainstorms, often with thun- perature. This sub-cooling is also These cumulus clouds have a known and frequent phenomeeastle turret tops and low, flat non in clouds and vapor. It is one

The man-made snow was all tiny Something like that, on a small ice crystals. Whether large flakes The explanation is that when the ly they can, and their appearance water particles in the original will depend on weather conditions

Might Produce Rain After producing the snow storm. Mr Schaefer flew under the cloud But the heat change did some- and through the snow crystals. As:

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scale, happened from the scatter, of snow can be produced remains no the six pounds of dry ice, to be demonstrated, but it is like. New Hormone Hailed As Probable Cure For Peptic Ulcer Sufferers

By WILLIAM J. CONWAY

CHICAGO-Discovery of a new hormone which apparently cures peptic ulcers is a reward for years

A team of Chicago scientists. back in 1928, joined in the censnowing, the snowfall continued. Dr. Largmuir estimated that a turies-old hunt for a chemical that would heal the gnawing sores afflicting a million Americans,

Scene of the research was Northwestern University's medical school. The men who did the work are Dr. Andrew C. Ivy, physiologist and now executive vice president of the Chicago profesisonal schools of the University of Illinois; Dr. Morton I Grossman, another physiologist now at Illinois; and two members of the Northwestern medical faculty-Dr. Harry Greengard. who handled most of the chemical phases, and Dr. Arthur J. Atkin-

From Hog's Intestines In time the investigation was

focused on a harmone found in the mucous lining of the intestinal tract of freshly slaughtered hogs. The problem of extracting it was solved in this way:

Strips of the intestine were turned inside out, and washed in affer 28 months, Eight others, all an acid solution to leach out the hormone. The fluid was filtered causes at intervals ranging from off, and the solid matter was put 11 months to four years after the through a purifying process. The injections were discontinued. One product was a colorless substance. still is living, in fine fettle, nearly They called it "enterogastrone."

Dogs with ulcers were given daily injections of "enterogas- one died of perforated ulcer two trone" for a year. Then the treat- and a half years after the trial

to develop several tons of He thought that one plane. in a five-hour flight, sowing dry ice pellets, could generate enough Ivy, "that it prevents ulcers in snow to cover a few inches of dogs. ground over a considerable area. This would require hundreds of treatments have been given to 58

millions of tons of snow. air and all of it evaporated before lution. it reached the ground. Under some other conditions such snow pellets might melt into raindrops.

DR. ANDREW C. IVY

ments were halted. It was expected that ulcers would develop again in a few months. But they didn't. The earliest recurrence was 18

The post-experiment record of one group of ten dogs is this: One succumbed to a perforated ulcer free of ulcers, died of various six years after the test.

In another group of five dogs, period. The others demonstrated tion.

"We established," comments Dr.

During the last three years, human patients. All of them had The first snowstorm, however, had peptic ulcers for at least five carried a hint that a lot of study years. They were given intramuswill be needed before man can cular injections of the hormone produce snowstorms where and concentrate consisting of a minute when he will. This snow fell amount (200 milligrams) of the from a cloud about two miles above pure substance mixed with about a sealevel. The snow fell into dry teaspoonful of a neutral saline so-

X-ray Verified Results

"Many of the patients reported symptomatic relief within a few the researchers report. Most of them were free of distress after two weeks. In the remaining few approximately two months elapsed before relief from pain and distress was complete."

Definite improvement in two to five months was verified by X-ray examinations. Improvement was recorded in 40 of the 58 cases, including 15 still under treatment.

The most beneficial frequency crowd, he asked for support. of injection is once a day, six times a week, for a year. None of the patients who adhered to this schedule suffered a recurrence after the treatment had been con-

In tests now under way in a California hospital, the hormone dose is taken by mouth in pills about the size of a pea.

DREADFUL FATE

A saflor was explaining the inner workings of the navy to a dinner "If a guy is hep, he won't give

his right trade when he joins up.' The gal wanted to know why. "Well," he explained, "if you tell them you are a mechanic, they FIGURES SHOW ACTUAL BUYmake you a medical corpsman. If you've been a cook, they are sure to give you a yeoman rating; and if you happen to know something about bookkeeping, they are sure to make you a mess cook."

"But," inquired the sweet young thing, "suppose you tell them you don't know anything?"

"Oh, that's the worst of all, If you do that, they hand you a com-

It was market day. Prices had been high and the man leaning over the fence round the sale ring was looking disconsolate. Suddenly a farmer rode up on an ancient

"How much do you want for that bag o' bones?" asked the bystander, his interest awakening,

"A hundred dollars." "I'll give you five dollars."

For a moment the farmer stared at the man in amazement. Then he "Young man," he said, "I ain't

going to let a little matter of 95 dollars stand between me and the sale of a horse. The animal's

Oriental Craft

The back of the Japanese theater stage opened on the street, and the manager was instructing an Amer-Ican occupation soldier in the art of drawing cash customers.

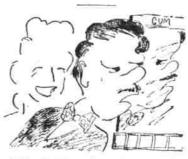
"When the play begins," he said, 'I'll raise this back curtain-just a

"Yes," the G.I. replied.

"People will crowd up to hear the play free. Well, I'll let them hear it until the moment of big suspense."

"Why, then I'll drop the curtain and they'll rush to pay their way in. They always do.'

LOST BY A HAIR



Bill-Darling, there is something that has been trembling on my lips for weeks and weeks. Coo-Yes, so I've noticed. Why don't you shave it off"

Twice-Told Tales The late Frank Harris took his

literary material wherever he could find it, and sometimes he would tell a story which bore more than a faint resemblance to something already concocted by another, and frequently more famous, writer. One day in a group which included Oscar Wilde he related on incident which nearly everyone present recognized as something which had occurred in a story by Anatole France.

There was an uncomfortable si

"You know, Frank," broke in Wilde, "Anatole France would have spoiled that story."

You First, Sir

It was very obvious that the new recruit was a raw hand at boxing as he entered the ring, and when he saw his hefty opponent he became more nervous still,

As he went to his corner he saw there a man with a towel thrown over one shoulder.

"Who are you?" he asked.

"I'm your second." was the reply. A look of relief lightened the recruit's face as he said: "No, you go first-I'll go sec-

Second Best

A candidate for county sheriff was

soliciting votes in a cowtown in Oklahoma. After haranguing the "Well, Mister," said the town

barber, "you're my second choice." The would-be sheriff pondered a moment. Then he asked cheerfully, "And who's your first choice?" "Oh," was the reply, "any fellow who wants to run.

USE THE CLASSIFIED ADS



From where I sit ... by Joe Marsh

Who Gets Off Easiest-Men or Women?

Maybe you saw that poll on who has the easiest life-men or women? Of course, the men voted that the women did, and the women

It would be the same in our town -take any family. Thad Phibbs envies his Missus spending the day at home, with no hot office to attend to. And Sue envies Thad his luncheons with the boys; and his evening glass of beer with friends (while she cleans up the dishes in the kitchen).

Of course, none of it goes very.

deep. Thad knows way deep down that the Missus has plenty of work running a house; and Sue knows Thad's friendly glass of beer is welldeserved relaxation after a long hard day's work.

From where I sit, most husbands and wives may grumble now and then - but they know in their hearts it's a case of live and let live, give and take, that comes out pretty even in the end.

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Keith Gibson At Asheville Hospital

THE

DOLLAR

1943

1945

FIGURES

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OF LIFE

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94

Keith Gibson, young son of Mr. DIMINISHING and Mrs. Albert Gibson, of Waynes. ville is a patient at Aston Park Hospital in Asheville where he has been taken for an operation

James Bradshaw Discharged From Army

James Bradshaw, of the Crabtree section of the county has recently been discharged from the U. S. Army, Since his discharge ho has been joined by his wife, the pair former Miss Kathleen alondy Research daughter of Hilliard Moods of all and Waynesville, R.F.D. No. 2 and their throng a son, and are now residing at them in the

Army Chapel Offered For Sale For \$1

A frame chapel at Fort Dis. X I., is being offered for sale to the from public by the North Atlantic Division of the Corps of Engineers, L. will be sold at a fixed price of St but the buyer must remove it with in thirty days and leave the selfin a tidy condition, Preferential consideration will be given by the Army to the use to be made of the chapel, first, as a shrine or .. memorial; second, as a denomina-

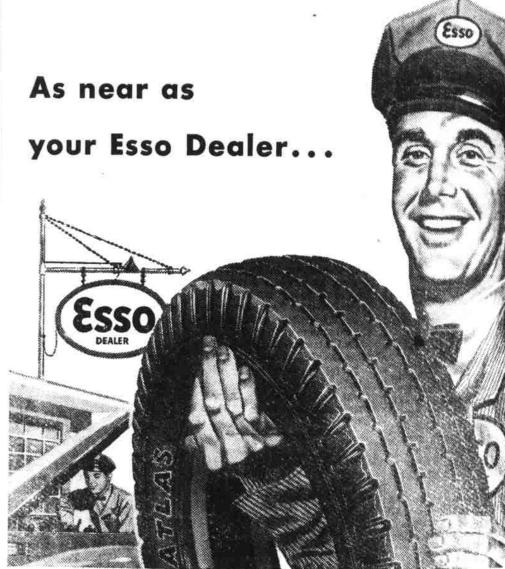
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