shouldn't it circulate cool air in sum-

mer? This has been brought about by

the introduction into the vaporaire

heating plant of a propeller run by a

small noiseless electric power unit.

the air through the house at a much

higher velocity than the unaided force

of gravity will move it. Whereas the

ordinary warm air heating system.

operating under winter conditions,

changes the air in each room from

one-and-a-half to two times an hour, the propeller system, operating in sum-

mer, turns over the air from four to

six times an hour. And this steady and

moderately rapid motion of the air

results in appreciable cooling during

Tests are cited by the Holland In-

stitute of Thermology to show that this occurs on all floors of the home.

Cooling Breezes Throughout House.

the grille, the cooling-effect of the air

motion is distinctly noticeable. On

this point, the language of the offi-

"Propeller circulation produces a well defined cooling effect which is

readily recognized by bodily sensa-

tions. This circulation results in cool-

ing and increased comfort to the occu-

"The velocity of discharge from

floor grilles as shown by the tests was

sufficient to carry a good share of the

cooled air all the way to the ceiling,

against which it splashed. In the case

of several grilles, the spread at the

ceiling was noticeable for some feet.

The air from wall and baseboard

grilles was carried well across the

room before the velocity was dissi-

Here, then, is a practical application

of air motion as a cooling method for

the average home. When we are en-

tertaining friends on a sweltering sum-

mer evening, all we need do is to

turn on a switch in the kitchen and

set a cooling breeze coursing through

No Sleepless Nights

sure of getting to sleep easily and

quickly, without tossing and sweating

through half the night, because of

the steady cooling currents that play

over our beds. Grandmother and

grandfather may sit in the air stream

and so pass through the "hot spell'

without those distressing attacks of

heatstroke that make midsummer a

dread period for old folks. And baby's

cradle may be placed where the wind

blows over it moderately, so that the

ittle one, too, is free from summer

And in contrast with elaborate

evaporating and dehumidifying ma-

chinery, this summer-cooling-winter-

heating plant is inexpensive, both in

operating cost and in original cost of

the equipment. On the first point, the

engineering tests showed that the total

cost of cooling a large two-story

dwelling by this method amounts to

Logically, we want to know what

happens to the propeller system dur-

ing winter. Well, one of the outstand-

ing effects of the increased air ve-

locity is that the house can be warmed

up on cold winter mornings much

more rapidly than with an ordinary

Also, air circulation throughout the

dwelling is improved. Instead of one-

and-a-half or two air changes an hour

there are from four to six when the

propeller moves air through the sys-

tem. This produces more uniform and

consequently more healthy tempera-

Easier to Heat Home, Too.

Higher heating efficiency and con-

iderable fuel economy result, for three

reasons: First, no forcing of the heat

er is necessary during extremely cold

fuel and burns out parts which are

expensive to replace. Second, the

temperature of the whole system is

lowered, the air leaving the grilles

at an average of 160 to 170 degrees

in an ordinary warm air system, but only 140 to 150 in the propeller sys

tem. Third, heat loss from the heater

and heat pipes into the basement is

decreased by about half. And finally

the propeller forces warm air to every

room in the house, even those most

remote from the central heating plant:

it means an end to "that room that

weather. This practice is costly of

slightly less than a cent an hour.

Illnesses due to heat.

neating plant.

tures in the rooms

When bedtime comes, we can be

pated.

cial test report is graphic:

pants of the house.

Even a considerable distance from

Of course, its first effect is to move

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By P. B. Beck



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SPECIAL MEETING OF BORO COUNCIL

(From Page One) templates the erection of a building on the north side of the P. R. R. Old Line in the rear of Mr. H. S. Newcomer's Hardware Store but said building would stand on the dead end of Comfort alley and for that reason asked Council to vacate said alley. This brought out considerable discussion from councilmen and abutting property owners.

Council figured that by opening new alley on the north side of Mr. H. S. Newcomer's store, extending west parallel with his building and intersecting with Comfort alley, which was the proposition of Mr. Newcomer, it would greatly improve conditions at the point in question.

An ordinance vacating the dead end of Comfort alley, passed second reading and the Street Committee was instructed to inform those concerned that council is willing and ready to pass finally said ordinance as soon as arrangements are made to turn the new alley in passable condition, over to the boro.

The Postoffice Chairman Murphy gave each councilman an opportunity to voice nis opinion on whether or no couneil should make provisions to main ain its present tenant, the postoffice, in the frame building in the All were of one frame of mind. We cannot, at this time erect a new and more creditable building. Neither would it be wise to enlarge the present structure. In ieu of the fact that the U.S. Department only pays \$250 per annum ent, it will be perfectly agreeable if they see fit to vacate the present uilding on account of it being too

Council then adjourned.

END CONVENTION AT LANDISVILLE

(From page 1) sions, between forty and fifty ministers being present on Wednesday. Officers elected Wednesday are President, Mrs. A. P. Stover, Camp Hill; vice president, Mrs. W. C. Burtnett, Altoona; recording secreary, Mrs. F. W. McGuire, Marysville; corresponding secretary, Rev. Jonas Martin, Middletown, and the

reasurer, C. G. Miller, Harrisburg. Tuesday afternoon's discussions were on the subject, "Do Missions Pay?" The following participated: Raymond Clemmer, Schmecksville; Rev. A. M. Rhine, Dalleview; Rev. J. M. Fahl, Reading; Mrs. D. F. Keckler, of Piketown. Rev. Lester Schlessman, Lisbon; and Miss Edith Nissley, Landisville. An address was given by Rev. Saymond Bair, of Maytown. The concluding talk was

by Rev. Cover. The principal speaker at Tuesday evening's session was Mrs. Viola Cover. A reading was given by Mrs. George Staines, of Lancaster, and a solo, by Rev. Roy Shreiner, of Philadelphia.

Rev. H. B. Lingle, of Auburn, poke at Wednesday morning's sesion. The other speakers were: Rev. Paul Breneman, of Hanover; and Miss Catherine Bowen, of New Cumberland. In the afternoon there was a discussion on "The Unfinished Task," in which the following participated; Rev. Paul Weaver, of Lancaster; Rev. C. C. Smith, of New Providence; Rev. H. C. Lefever, of Bowmansville, a former missionary to Bogra, Ind.; Rev. H. R. Robb, of Harrisburg; Rev. G. R. Hoverter, of Penbrook; Rev. M. C. Manning, Carlisle. Mrs. Cover also spoke on her experience in India.

The closing address at the evenng meeting was given by Rev. Cover. A pantomime, "Nearer My God to Thee," was given by Miss Romaine Geib, of Middletown. Devoions at the sessions were directed by Mrs. W. C. Burtnett. Altoona; Mrs. E. E. Asper, of Rohrerstown; Miss Amelia Gross, East Petersburg; and Mrs. L. L. Weaver, of Lancaster. Solos were sung by Rev. Roy Shreiner, Philadelphia; Mrs. H. S. Hershey, and Charles Baker, of Landisville. Twenty-two children of Wormleysburg Church of God sang Wednesday evening.

MOUNT JOY FAIR **SPACE IN DEMAND**

(From Page One)

S. B. Mason, chairman of flowers; Mrs. C. J. Musser, of baked goods; and B. J. Banner, assistant chairman of rabbits and cavies. To the flower list were added marigolds and zinnias; and to the baked goods, pumpkin custards and twopiece pies.

time limit for receiving poultry is 2:30 p. m., Oct. 17 and no entries will be received after that. All persons interested are asked to be present at the judging

of poultry. Irvin Dietrich, of Reading, was named judge of rabbits and cavies The Donegal Ladies' club, sponsored by Miss Mary Cameron, will have a booth in the Hostetter building, at which refreshments will be sold. It was announced that first and second prizes will be given the members of the Four H club, in

ompetition with each other. The International Harvester Co. have promised to present moving pictures one evening during the ex-

MANY MORE PEOPLE DIE FROM HEATSTROKE THAN OF EXPOSURE TO THE COLD, INSTITUTE FINDS

Heating Plant Now Used to Circulate Cool Air in Homes in Summer.

Summer heat is from two and a half | throughout the house in winter, why to five times as deadly to humans as

winter cold. Yet. although 7 cents home of every building dollar is spent for heating equipment, Holland Institute of Thermology of Holland, Mich., points out that home cooling plants are rare, although modern sci-

ence has made them entirely practical. According to the latest figures of the United States Public Health Service, 646 persons died from heatstroke and only 246 as a result of exposure to cold in one year. In the preceding sum-mer and winter 1,355 were killed by neat and 239 by cold. The statistics do not account for the vast number

of non-fatal heat prostrations. But though the cooling of theaters. auditoriums, schools, hospitals, banks. factories, offices and other structures has become common practice, air-conditioning the home for comfort, health and efficiency is neglected except for heating during cold weather. would not be the case, the Holland Institute of Thermology suggests, if the average home owner would just "take a tip" from a common experi-

Moving Air Has Cooling Effect.

This experience occurs on hot "mugevenings when not a breath of wind is astir and there seems nothing to do but perspire and suffer. In desperation, we get into the family car, start off at about 25 miles an hour, and feel the air eddy past with a grateful coolness. Presently, the speedometer slides up to 40 miles. We stop perspiring, forget the heat, become comfortable. After an hour or two we return home, refreshed and relaxed, ready for a sound sleep.

Think what this means. The air we rode through is of the same temperature as that of the air we found so insufferable before we started outor virtually so. The relative humidity is the same, too. But riding through still air at 40 miles an hour is equivalent to sitting in moving air with a velocity of 3,520 feet a minute. This suggests that mere motion of the air may be used for cooling purposes. And that is exactly what science has discovered within recent years.

"Air motion makes any moderate condition feel cooler," states the technical guide book of the national society of air-conditioning engineers. And 12 years of research at the Pittsburgh laboratory of that organization and the United States Bureau of Mines has made it possible to calculate exactly what cooling effect any velocity of air motion will have in any condition of temperature and humidity.

Equivalent to Temperature Drop The facts are made use of in all sorts of industrial air-conditioning problems. As a matter of fact, engineers know four ways to cool the air in buildings. The first is to take heat directly out of air by passing it through cold water or cold brine sprays, or over cold coils, or both.



Hot Spells Are Hard on the Old Folks.

of the air by cooling it below the dewpoint, as in a dehumidifying plant. The third method is still more complicated. But the last is simplicity it self. It consists merely in keeping the air moving at a given velocity.

When it comes to cooling a stee mill or the stokehold of an oceanic iner or a metal mine, only a competent engineer can decide which of these four possible methods is best in each case. But for most of us, in our homes the choice is narrowed down by the fact that all the first three require expensive machinery. So we have to rely on air motion,

Heating Plant Serves Double Duty. So it is intirely logical, according to the Holland Institute of Thermology, for the warm air heating industry to apply this principle to introduce the comfort of coolness during hot weather As a matter of fact, the leaders of this industry have converted the heating plant, which is useful only for a part of the year. into a real air-conditioning plant that improves the year round conditions in After all, why not? If the heating

old any mere.

system's job is to circulate warm air | could never be kept warm,"

Consistent and NOT spasmodic advertising always pays best. Each Bulletin you can get all the local time you stop advertising, the pub- news for less than three cents a lic thinks you quit business. tf week.

A matrimonial expert says that It is said that the larder of the a girl's chance to marry fade after Graf Zepplin was loaded with she reaches the age of twenty-five. sirloin steak and Virginia ham But very few of 'em ever get that before it left Lakehurst. We can't see why it was in such a hurry to get back home.

By subscribing for the Mount Joy

Same Principle Is Used to Cool and Heat Home

Breaking new ground in applying engineering science to the problems of the home owner, and showing how the principles of air conditioning employed in theaters and other large buildings can be used to cool the dwelling house during hot weather, the Holland Institute of Thermology of Holland, Mich., announces the publication of a booklet on "Air Motion in Home Cooling and Home Heating," which is the Bulletin No. 2 of its popular education series of brochures. Issued for free distribution to in-

dividual home owners and to high schools, public libraries, home mod-

Cooling Effect of Moving Air.

ernizing bureaus and organizations working for community betterment, this practical guide on air motion in ventilation is part of the Institute's program "to teach the American home owner the science of healthful heating through control of temperature, humidity and air motion."

Why, on a hot summer night, is it cooler to ride than merely to sit still, even though the air you ride through is just as warm and humid as that you would sit in? That is the question, based on common experi ence, which the booklet sets out to

Heat Generated by Food.

To answer it the authors first explain how the body generates heat from food. Then they set forth the physiological processes by which heat is removed from the body, showing that air motion is one of the factors that promotes two of these processes and thereby increases comfort.

Tests made in Germany, in England by Dr. Leonard Hill of the University College, London, and in the United States by the U.S. Bureau of Mines, the American Society of Heating and Ventilating Engineers and Harvard School of Public Health are cited by the Holland Institute of Thermology to prove these basic laws. The results of these tests, given in the booklet, show that air motion lowers the pulse rate, keeps down the in-



Convection Relieves the Body of Heat

blood pressure, increases both the comfort and the efficiency of workers, and makes any condition likely to be encountered in the home feel more comfortable.

Examples of the industrial application of the principle of air motion are presented. Then the booklet discusses methods by which it can be used in the average dwelling.

Use Air Motion in Mines to Better Working Conditions

Air motion, which can be used for cooling the home in summer, is used successfully to improve working conditions in mines, according to the Holland Institute of Thermology of Holland, Mich. Naming the U.S. Bureau of Mines as authority for the report the Institute's engineers cite one American mine in which the temperature ranged from 80 to 90 degrees.

When that hot air was still, the workers developed fevers of 102 and 103 degrees. Their pulse rate in creased rapidly. They felt weak, lost weight and soon became exhausted. But when the same air, of the same temperature, was kept moving through the mine at between 400 and 500 feet a minute, the miners felt no discom fort and their temperatures and

pulses remained normal. If mere air motion will accomplish this in one of "the hot industries," the Holland Institute of Thermology points out, it will do as much for the average home during hot weather There are two kinds of home-heating systems, known as the "vaporaire' and the "super-circulating" systems equipped with electrified propellers that keep large volumes of air moving through all the rooms of the home to produce a cooling effect during

In winter, the propeller systems increase heating efficiency by speeding up the circulation of warmth to all the rooms in the house

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When Labels Are Literature



people think of canned foods as provender for the "cave-dwellers," the ever-increasing millions of people who live in apartments in our great cities, and that these people never give labels more than a glance, but Hiram Blaubelt, writing in "Print-Hiram Blaubeit, writing in Frinter's Ink" about merchandising in Alaska, throws a new light on the labeling of canned foods. Out there the labels are literature, and mighty interesting literature at that.

Recipes in Demand "I used to wonder," he wrote, "what good it was putting so much printed matter on cans, boxes and cartons. It is small and hard to read and people never look at it, I thought. This may be true in civil-ization where we are all so busy, but when we get into the outskirts of civilization, where people have

more time, what manufacturers

"Such matter should not boast about the purity of the contents, etc., but should explain how the food within should be cooked, how best preserved from spoiling when once opened, and other useful infor-mation. Recipes are particularly welcome, as women are scarce up in this country and I venture that a large majority of the cooking is done by men. You'd be surprised to see the tasteful dishes that some of those old fellows-trappers, miners, prospectors, homesteaders, etc.

—dish up by following out the recipes printed on tin cans. In out-of-the-way places where reading matter is scarce, everything in print is carefully devoured and so cans and cartons can carry very impor-tant merchandising messages on their exteriors I know—by experi-

print on their containers is of great