



NEW HEATING PLANT.

Hot Air Fan System Being Tested At the Public School Building.

The heating of a public school building containing sixteen rooms and long wide halls is a problem which has been both-ering the school board and the teaching force during the past term. The heating plant was insufficient for the work and it was not possible to raise the temperature to a comfortable degree. Something had to be done and toward the close of the term the board contracted with the McPherson Company of Portland for an entirely new heating plant, which was installed during the holiday recess.

The proof of the pudding is the eating and the cold weather we have been experiencing has been all right for testing the new plant, which is giving good satisfaction. The Company however asks for nothing to be paid on the plant for three or four months or longer time if need be to satisfy the school board that it will do the work claimed for it.

The plant is known as the "fan system." Two large furnaces which will easily take four foot wood supply the heat and each furnace is supplied with an electric fan.

Windows are open, which furnish to this fan from the outside, and by means of the suction which the fan creates, two million cubic feet of air every hour. This air is forced through the space above the furnaces, carrying with it the heat into a system of galvanized iron pipes, one for each room in the building, the power and effect of this fan being illustrated by the fact that no matter how strong the fires are the upper surface of the boilers is virtually cool, the heat generated being carried by the air from the fan into the distributing pipes.

Another fact is that though only one furnace be fired up its heat will be equally distributed to every room, and no part of the building need suffer while another part is comfortable. All furnaces or one or more can be used as the state of the weather requires. On the contrary, by a system of dampers, the temperature of any room in the house may be controlled without interfering with any other room.

Each of the separate pipes delivers to each school room ninety thousand cubic feet of pure air every hour through a grating eight feet above the floor of the room, and this is heated or not as the season demands. Then in each room there is situated just above the floor a ventilator 18x24 inches which carries off the carbonic acid gas and other impure air through a shaft terminating in the attic, where there are louver windows allowing its escape through the roof. The force of the suction through these shafts is illustrated by spreading a handkerchief in front of the grating in the room, where it will be held fast as if tied to every bar, and the force of the inward rush of fresh air above can be ascertained by reaching the grating.

Another pleasant and economical feature of the system is that in less than an hour after fires are started in the furnaces every room in the house is comfortably heated. It is said that in most of the schools in Portland, the janitors are compelled to get the fires going at 4 o'clock in the morning. The difference is easily seen.

The web of large pipes radiating from the furnaces is situated as close to the basement ceiling

as possible, and while their great size and number form rather a cumbersome looking setting, yet each pipe is well and smoothly made and the work of putting them together is certainly flawless, and there is probably no system of distributing heat that could be installed without leaving mazes of pipes in evidence at the place of distribution.

To all appearances and in the limited judgement of a layman, the McPherson company has done a good job and the school has an excellent heating and ventilating plant.

Records of Weather Bureau.

Records at the Weather Bureau have been kept since 1875 of minimum, maximum and mean temperatures in Portland, and from these the following table shows the lowest temperatures in the years from that time until the present. It will be observed that the lowest mark was made on January 15, 1888, when the mercury fell to 2 degrees below zero.

Year	Mo. & day	Temp.
1875	January 14	3
1876	January 22	20
1877	December 31	25
1878	January 2	13
1879	December 23	3
1880	December 4	19
1881	January 26	24
1882	February 18	18
1883	February 5	7
1884	February 12	12
1885	January 1	17
1886	January 19	15
1887	February 4	9
1888	January 15	-2
1889	February 16	23
1890	February 16	10
1891	March 3	23
1892	December 22	20
1893	February 1	8
1894	February 21	18
1895	January 26	25
1896	November 29	11
1897	January 26	22
1898	December 12	21
1899	February 4	9
1900	February 5	19
1901	January 1	26
1902	January 25	13
1903	February 14	24
1904	December 7	28
1905	February 11	17
1906	March 12	22
1907	January 15	13
1908-09	to date, Jan. 12	5.8

The Willamette river at Portland has been frozen over only once since 1880, in which year on January 7 and 8 there was a thin coating of ice. In January, 1888, when the thermometer indicated the lowest temperature of record, 2 degrees below; the river was frozen from January 15 to 25 inclusive. The ice was so strong that persons were enabled to cross over with little danger. George H. Knaggs, an old-time resident is quoted as authority for a statement that the river was frozen over in 1853 and again in 1862.—Oregonian.

G. A. R. and W. R. C. Installation.

January 7, the comrades of Shiloh Post No. 77, and the ladies of the Relief Corps met in joint session for the installation of their officers for the coming year. The day proved to be very stormy. The comrades and their better halves began to gather in about eleven o'clock, after which the hall was soon a buzz with comrades, ladies of the corps and visitors. The martial band gave some very fine music which put enthusiasm into the old boys. Commander R. B. Linnville then called the post to order and past department commander, B. F. Pike proceeded to install the newly elected officers, as follows: B. S. Hunter, commander; N. E. Britt, S. V. commander; J. W. Douglas, J. V. commander; Geo. W. Allen, Q. M.; J. R. Finley, chaplain; John Shearer, officer of

the day; John Dixon, officer of the guard; E. R. Horton, sergeant Maj.; R. B. Linnville, Q. M. sergeant.

The ladies of the Relief Corps then proceeded with their beautiful installation, with past president Mrs. Elizabeth Clemens as installing officer. After the installation the comrades gave the ladies a banquet which the latter said was very nicely served. About seventy-five comrades, members of the Corps and visiting friends partook of the things that were good for the inner man, after which there was some fine instrumental music furnished by the organist of the Relief Corps, Miss Doris Gregory and a visiting comrade from McMinnville.

All returned to their homes feeling that they had spent a very enjoyable day.

B. F. HEVLAND, Adjutant.

Portland Notes.

Six tons of advertising matter, and the highest possible grade of advertising matter at that, was forwarded to the East by the Portland Commercial Club last week. This remarkable addition to the enormous advertising Oregon is already receiving, tells of all the resources of the state in picture and text, and comprises 5,040,000 full newspaper columns, certainly a great accomplishment, and one which five years ago would have been considered impossible.

Rev. J. Whitcomb Brouger, pastor of the "White Temple" at Portland, is absent on an extended Eastern trip including Boston, New York, Philadelphia, Cleveland, Chicago, and other cities, in behalf of the Northern Baptist Convention, which is to convene in Portland on June 25th and will bring from 2,000 to 5,000 prominent Baptist laymen and preachers. Dr. Brouger includes a description of Oregon and the Pacific Northwest in all his addresses.

The Peck-Judah Company, one of the foremost tourist bureaus in the United States, with the Pacific Coast as their exclusive field, have opened headquarters in Portland. This company handles many millions of pieces of advertising matter during the year, and they have in charge competent people thoroughly familiar with the attractions and resources of Oregon.

There's a difference of opinion among trans-continental railroads as to the rates to be made to Oregon during 1909, but there is assurance that the regular rate

is to be cut so as to make travel very heavy, and every indication that the one-way colonist ticket will cost less than at any time during the past two years.

Expression of Appreciation.

In view of the departure of Rev. Blair, the secretary of the Ministerial Association was instructed to prepare a letter of commendation expressive of the confidence in which our brother is held. The following is a copy of the letter given to Brother Blair:

Newberg, Ore., Jan. 11, 1909. It is with sincere regret that we note the departure of Rev. J. Edward Blair from the pastorate of the Presbyterian church of this place and from the fellowship of this association. During his pastorate here he has won for himself a large place in the hearts of the people, and is held in high esteem by all.

The church over which he has presided has made splendid progress, the membership has been largely increased and an excellent house of worship has been constructed.

We have found him a warm hearted brother, an efficient pastor, and a consecrated servant of our Lord. We wish him God-speed in his new work, and most heartily commend him to the confidence of all.

GEO. C. RITCHIE, Pres.
F. C. STANNARD, Sec'y.

Yes and No.

You say that yes means no with girls.
My experience is like this,
That when the girls said no to me
They generally meant yes.
Now let me cite a case to you
To prove that this is so,
The girl I wed when I proposed
She answered me with no.
Why you conclude that yes means no
with girls
To prove that this is so,
You say the girl said yes to you
Then went along with Joe.
Alas! such scenes too oft occur
Amid life's glare and whirl,
But place the blame on Joe my friend
But do not blame the girl.
Their no means yes, their yes means no.
It's only in the name,
Just take them in their girls parlance
You'll get there all the same.
These girls when wed make splendid
wives
They change their role you know.
If no meant yes in girlhood days
It surely now means no.
—Nathan White.

Feed the Birds.

Dear teacher:
Have you asked the children to feed the birds? Owing to the severe weather, thousands of birds are facing starvation, and I think all bird lovers should do something for these little feathered friends. It will be a good lesson to teach even if it is not found in any text book. I find great pleasure in feeding them.
Yours sincerely,
H. H. Belt, County Supt.

70c Worth \$1.
CLOSING OUT SALE

We are closing out our stock of the J. Miller shoes

One Dollar's Worth for 70c

Nothing reserved in this stock. Anticipate your wants and buy for the future. Men's high top shoes, the \$4.50 kind for

\$3.15

DON'T MISS THIS SALE

Hodson Bros.

"If you get it of Hodson Bros. it's right."

Warner's Rust-Proof Corsets

STYLE 265.

Specifically made for stout women. There is no other corset today that so perfectly shapes the stout form into correct lines for the present dress, as this style. To prevent its breaking and for extra abdominal support, it is braced with parallel circular bands of tape on the inside between the boning and the body of the fabric. The skirt is very long, especially at the back, where is inserted a deep gore which controls the flesh, distributing it proportionately. The unbreakable features of the model are unequalled. The bones, side sticks and clasps are guaranteed not to rust, break or punch through the fabric, and the eyelets and the metal parts of the hose supporters are also warranted not to rust. These are good features that will be appreciated by stout women. Security Rubber Button Hose Supporters attached. Price \$3.00.

Ladies Home
Journal
Patterns

HALE & CO.
MOST LIBERAL AND
DEPENDABLE STORE.

Sub. Agency
Ladies Home
Journal

We Wish You a Happy New Year

Cash Bargain Store

We wish to thank the people for the splendid holiday trade and invite them to come in and try our nice fresh line of

GROCERIES

which we have just opened up. We still have a nice lot of china and expect more in a short time. Come in and get prices on our groceries.

JOHN F. PETTENGILL

Telephones.

New Stromberg-Carlson telephones for sale. This is a standard phone and has been adopted by the Newberg Telephone Com-

pany. Shares of stock and new phones sold on installments, if preferred. Second hand phones and extra parts for sale.

S. J. MADSON, Mut. 18-3.

A PAYING INVESTMENT

Is a well fenced farm and can only be had in the choice of a standard fence

THE AMERICAN

is a fence of quality. There is not another fence on the market possessing the same structural advantages. Made by the Largest Fence Manufacturing factories, who know what kind of a fence will guarantee the customer satisfaction.

THE VINCENT FEED & IMP. CO.