BULLETIN

SECOND PRESBYTERIAN CHURCH

OXFORD, NEW JERSEY

By

A. G. YOUNT



Remember the days of old, consider the years of many generations: ask thy father, and he will show thee; thy elders, and they will tell thee.—Deuteronomy, \$2:7.

Bulletin No 401, Morch 6th, 1938

Who is a Cod like unto thee, that pardoneth iniquity, and passeth by the transgression of the remnant of his heritage? he retaineth not his anger for ever, because he delighteth in mercy. ——Micah 7:18

"Forgive, O Lord, we beseech thee, all that we have done amiss, all that we have spoken falsely or in anger, and all that we have thought or purposed against thy will.

Forgive our ignorant and hasty faults, our wilful and deliberate offenses, and all our sins of slothfulness and neglect. Forgive us freely; forgive us graciously; forgive us entirely: in the Name of our Lord and Saviour Jesus Christ. Amen. "

The Annual Supper by the men of the congregation will be given in the chapel on Monday evening, March 14th. Hot buckwheat and flour pancakes with sausages will be the main ttractions, but other food for those who may prefer it.

The Ladies have kindly offered to furnish the dessert, as the men have not advanced that far in the art of cookery.

The Annual Canvass for the support of the church expenses for the coming year will be made on Sabbath March 20th.

The Easter Communion will come on April 17th. Those who may wish to be admitted to our communion at that time should speak to the Pastor as he plans to give some instruction to the new members.

Several persons have already made application for that purpose, and there will probably be many more to do so.

The Cemetery Association will have their next stated meeting on Sunday March 13th. in the afternoon.

Hot-blast in Oxford Furnace

"The first practical application of the hot-blast in this country was made at Oxford Furnace in New Jersey in 1834, by William Henry the manager. The waste heat at the tymp passed over the surface of a nest of cast-iron pipes, through which the blast was conveyed to the furnace. The temperature was raised to 250 degrees Fahrenheit, and the product of the furnace was increased about 10 per cent.

"In 1835 a hot-blast oven, containing cast-iron arched pipes, was placed in the stack by Mr. Henry, and heated by the flame from the tunnelhead. By this means the temperature of the blast was raised to 500 degrees.

"This innovation in American blastfurnace practice increased the product of Oxford furnace about 40 per cent, with a saving of the same per cent of fuel.

"No better device for heating the blast was used in this country until about 1840. Hot-blast ovens, supplied with cast-iron arched pipes of various patterns, were in general use in subsequent years down to about 1861."

The above quotation is made from "Iron in All Ages," by James M. Swank. Edition of 1884, page 326.

This volume is still the best history of the iron business and furnaces in this country up to the time of publication, and is recognized as an authority on the subject. The accurate details of the account of Oxford furnace's first use of hot-blast shows that Mr. Swank must have been in Oxford and got his information from Mr. Henry himself. In fact, we have in our research somewhere read that Mr. Swank was in Oxford, but forget where we saw it.

We call attention to the careful wording used by Mr. Swank. He does not say that Mr. Henry invented the hot-blast, as some histories assert. In fact, it was invented by an Englishman, J. B. Neilson, in 1828.

Mr. Henry must have heard of this, as six years later he made his first application of the method. But 10 per cent increase of the product was not satisfactory, so with his genius for invention he changed the method of heating the blast, which Mr. Swank calls an innovation, which increased the product 40 per cent, with a saving of fuel to a like amount. This revolutionized the business of making iron from the ore. And on account of Mr. Henrys innovation in heating the blast, his service to the trade is recognized by mining engineers as of the highest importance.

To illustrate: In June 1933 we received - letter from Prof. Bradley Stoughton, in charge of the Metallurgic-1 Engineering Department of Lehigh University, Bethlehem, P. roquesting picture of the old lurnace, and saying: " I am now preparing revision of my book entitled. The Metallurgy of Iron and Steel. of which about forty thousand copies have been sold, mostly as a textbook in colleges. I should like very much to include a picture of the old Oxford furnace." We sent him several new pictures of it, and a year later we examined a copy of the revised edition, and found the picture of the furnice near the first of the The remarkable thing to me at the time was that it was the only old furnace pictured in the whole book. Why was Oxford furnace thus singled out for this distinction?

I could not imagine at that time;
and indeed, only last fall, while examining again, Mr. Swank's History,
If for the first time discovered the account of Mr. Henry's use of the hotablast, as quoted above. Then it, for the first time, dawned on me that it was on account of the fact that Oxford furnace had the distinction of first using hot blast, and so wonderfully improving the method of its use

So that to the mining engineers Oxford furnace has the great honor of first introducing and greatly improving the use of hot-blast in iron blast furnaces in this country.

All which adds a powerful motive for the preservation of the furnace by the State of New Nersey.

It should have been stated that the picture of the furnace in Dr. Stoughton's book has this legend under it:- "The hot-blst was used in this old furnace in Oxford New Jersey in 1834, by William Henry manager."

Mrs Frederick Fowler adds her tribute to Mrs. Lukens, saying:--

"I have often wanted to write some thing in regard to our happy times in Oxford, due to Mr. and Mrs. Lukens, (everybody's friend, as Mary Weber, calls her) was not sometimes doing nice things for us, but always.

Taking us to conventions, Mission—

ary meetings, Bible studies in Belvidere to hear Dr. Stearns whom we all loved to hear, and eagerly drank in the wonderful things he taught us.

Sunday nights, after Church, were always bright spots for us to be invited over for supper, and then sing for an hour or so. And oh many, many things that made Oxford a great place to live in.

She surely was a Lady Bountiful with her Democrat (the merry-go-round, as Mr. Lukens laughingly called it). For she gathered in it as many as it would hold. And in regard to Mr. Lukens, I once heard Mr. Fowler say, "He could do more things and do them well than any man I ever knew."

stop. One of her degrest friends,

Mr.Benjamin R.Pittenger has sent more historical notes for the Bulletin, that will be used in later issues. His ability and success in discovering new documents relating to Oxford history is truly remarkable. We are all under the greatest obligations to him, and hope he will continue the good work.

He lso sends \$3.00 for the Sulletin fund. Many thanks.

CHURCH OFFICERS

The Session

A. G. YOUNT, Moderator

Elders

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