& machine sho

Kinasbury on the

established by W.F

banks of the Allegheny River by

remodeling the mill:

opposite the Grist Mil

employed local foundr:

men and machinists

and began business. Even though he had

to rely on uncertain

was brought up the

the way from Dunkirk

a range of machining and repair services.

river on flat boats, and coal hauled all

not deterred. He

the Borough of

Warren". Kinasbury

known as Stewart's

1867

Henry Brown

Thomas

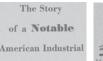
plant

The

frame

STRUTHERS WELLS CORPORATION

Strutbers Wells Division Titusville Iron Works Division WARREN, PA.







1964

Struthers

Corporation

The company

has expanded to include plants in

Titusville, Pa.

and Winfield,

Kansas, with

operations o

the four plants

coordinated

centrally at

Nuclear and

Process

<u>Company</u> ir

Warren, Pa.

Gulport, Miss

formed



John Munch Rice Bosko 1972 1973 Schuler 1956

1993

Warren Plan

bankruptcy

Shop machinery auctioned off & shop buildings sold.

On July 1, intellectual

property with assets and ongoing business of S.W.

were sold to <u>Struthers</u> Industries, Inc. of Gulfport,

<u>Mississippi</u>, a former subsidiary of Struthers Wells

At the time of the restructuring program.

area. As a result S.W. was inactive for

years in soliciting inquires on industrial

S.W. had a large backlog of contracts for marine nuclear components, and the decision

was made to concentrate the capacity in this

closure o

1986

restructuring

& sale of

named

Struthers Wells

<u>Industries</u>

Richard Caldwell Dave Mancuso 1973 Carlson 1968 1973



1854 1851 Renamed Kingbury Drake well in Warren Foundry

joined by .W. Arnett Struthers: Titusville becomes the firm the first successful was known oil well in the world. Brown Brothers as Brown expands with new products: boilers, oil Co. and the storage tanks, shell stills & gas engines. known as after it's

Iron Works. The new founding. W.F. Kingsbury retired and the eplaced the company was taken over by Henry Brown renamed Brown Brothers, Adde steam engines & saw mill machinery to product lines.

structure with brick was dependent on the citizens of Warren expressing their interest in the project by buildings, the nurchase of a suitable site for the In June 1882, the chosen site was deeded to Thomas Struthers in consideration and quickly of \$7,050 raised by the people of Warren and paid to the landowners. (He wanted to will a local opera house — the problem was over 200. that most people in town looked askance a applied his knowledge vigorously and made his business prosper. Products included: plows, plow points, sleigh entertainment emporiam, so he named the "Struthers Library Building"). It was an historic triple play. Warren eventually ended shoes & cast iron parts for flour and saw mills. Also

1875 purchased by Thomas Struthers, James C. Wells, & Alex McKelvey known as Struthers Wells tubular, flue and locomotive boilers

Boilers, oil tanks, and o stills were added to the product lines. This was the genesis of the widely known Struthers Wells pressure vessels.

early 1882, Thomas Struthers proposed to

ect, at his own expense, a building suitable

rental spaces and a Public Hall. His offer

up with a beautiful opera house, a

substantial post office, and a terrific library.

A period of firsts. Although by no mean: the largest of steel fabricating plants, it had many famous 'firsts" to it's credit had been one of the pioneers in using neumatic hammers making boilers. It had already acheived a leading position in the manufature of gas

1908 1902 Produced the first ted all-welded carbon steel pressure vessel in the U.S. Struthers followed by the first all-welded Company

stainless steel

pressure vessel

several years later

Shortly after it's incorporation it began the manufacture

of wood alcohol distillation equipment and became the eading concern in the country in that line. It was among

the first to employ oxy-acetylene welding in 1907. Shortly

S.W. was one of the first

companies to forsee the need of heat treating

welded vessels and

ollowing the merger

1928 began installation

of the necessary

eauipment. A car type

the bottom of the

furnace. Heated by gas, the furnace was 87 feet

long, 14 feet wide, and 16 feet high. The furnace

temperature of 2150 F

In the middle

Wells hired a

engineers

1920's, Struthers

umber of design

xperienced in the

etroleum refining

field from Smith

Engineering in

Kansas City: entering the contracting field

s a designer and installer of small

refinery crude distillation and

acking units. Thi

epresented the

exposure to the design of process

auipment such a: eat exchangers, distillation towers ste heat boilers and process

furnaces.

start of it's

operated with a maximu

rnace was constructed, e floor of the car being

Corporation

the Dillor

Designed and 1928 Titusville Iron fabricated Works Co it's first Titusville Forge Co. feedwate and Struthers Wells heater for the become Struthers utility <u>Wells-Titusville</u> industry Corporation

Developed the first forced circulation thermal fluid —

thermal cracking of ethylene dichloride (EDC)

vaporizer. Manufactured the first furnace used for

Struthers Corporation

standard. use at The three plant complex (1 in Warren & 2 in Titusville) continued intact for over thirty years

pioneers the

forced

circulation

Dowtherm A

vaporizer

1955 S.W.

develops

furnace.

This

design

has since

become

the world

radiant—wall MULTIWALL

the

S.W.

develops

laminated

shell

construction

for use in

high

pressure

vessels fo

The 1940 to 1965 period was the time of almost Struthers Wells complete transformation for the Warren facility wherein it achieved world-wide recognition as a designer and fabricator of performance warranted sophisticated process and energy related equipment.

Scientific &

Corporation

1950's. Struthers Wells formed

The use of welding instead of riveting made better pressure vessels possible. Struthers Wells quickly grasped the possibilities of the new method. The first all—welded pressure vessel built by Struthers Wells in 1908. It was 7 feet in diameter, 29 feet 9 inches long. This equipment i still operating at Forest Products Laboratory in Wisconsin. [1944] -Designed and built the first once through steam aenerator (OTSG) for enhanced oil recovery.

S.W. develops it's once through 80% quality steam generator (OTSG) design for use in the thermal enhanced recovery of heavy or highly paraffinic crude oils. Sold over 2000 units worldwide prior to sale of product line to Babcock & Wilcox in 1986

In the middle 1940's, Struthers Wells at Warren added crystallizers to it's Norwegian developer of the Oslo Type Crystalizer. This addition gave S.W. an entry into the mineral separation fields.

During WWII, S.W. participated heavily in the defense program fabricating hundreds of heat exchangers and condensers for Liberty Ships. It also made coolers, condensers, heaters of special design and evaporators that went into U.S. Navy battleships, cruisers, destroyers and Maritime Commission cargo ships. Also: gun barrels, crankshafts for diesel engines

Struthers Wells products for fabrication in the Warren shop Later...due to substantial reductions in the Gulfport offices & plant in Gulfport, national defense budget, sharp decreases in Mississippi.

Struthers Wells

Corp.: Struthers Wells

offices & plant in

Warren, Pa., Struthers

Thermo-Flood

offices & plant in

Winfield, Kansas

with a field service office in

Bakersfield, Ca.,

Struthers Scientific

& International

Corp. in Warren, Pa. & Paris,

France.

R PERE HE LIST ME FERE E

1960's, Struther Wells formed

Struthers Wells

Gulfport, Inc.

with a

fabricating plant in Gulfport,

Mississippi

Struthers Awarded Large Soviet Contract

property Closure o assets Struthers Wells purchased by Thermal Warren office. 162 years of Engineering Internationa (a subsidair Warren/Titusville of Babcock area comes to an end. renamed The Future? Plans are TEi-Struthers Wells with offices in Warren, Pa., Houston, Tx.

Intellectual

underway to consolidate the igineering offices in Louisville, Kentucky: hiring new staff to replace losses from the Warren & Houston will remain open as the sales office. Fabricating plants in Joplin, MO., & Sapulpa, OK.

By the mid 1980's, severely

depressed markets for it's

it's Struthers Oil & Gas

subsidiary, the latter a

limited partnership corp. for

oil & gas exploration and

drilling which was sold at a

significant loss, had placed S.W. in a serious debt

position with it's principle

bank.The resultant

restructuring included the following: sale of Struthers

Thermo-Flood Corp.

including the offices &

plant, plus the rights to oil

field steam generators and

aas turbine waste heat

boilers. Sale of Struthers Wells—Gulfport, including the

offices & plant, plus the

pressure shell and tube

heat exchangers and electric utility feedwater

ooling heat exchangérs.

products plus the sale of

2013

historic Library Post Office, & Theatre

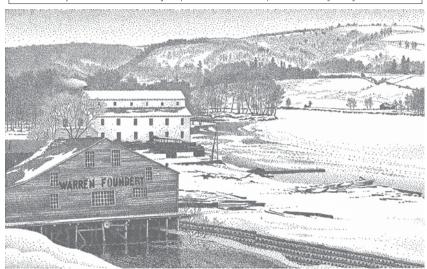


MILESTONES: Dec. 3, 1883: Library Hall opens, with the opera "lolanthe" as the entertainment.

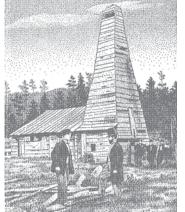
Nov. 10, 1919: The new Library Theatre opens after a complete gutting and remodeling of the auditorium, with a popular Broadway play "My Lady Friends" starring Clifton Crawford on the evening's program.

Oct. 15, 1983: The Library Theatre celebrates an extensive renovation and its 100th birthday with a Gala Re—Opening featuring a varied program with jazz pianist George Shearing, classical pianist Eugene List, opera singers Julia Lovett and James Sergi, a professional dance company, and a bagpipe and drum band.

1984: The Library Room is restored to its original splendor and outfitted for special events and gatherings.



The Warren shop where W.F. Kingsbury began business in 1851



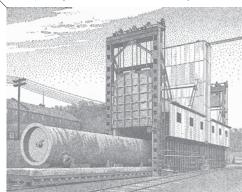
American side of Niggara Falls and the first

on the Canadian side a few years later

The famous first Drake oil well was Titusville Iron Works.



This shop, built in 1856, occupied a small part the land on which the large plant was later built





The Warren Division of Struthers Wells Corporation in the early 1940's

