tain quality of clay brick lining, producing the same chemical effect and known as the basic process. The open

a most important link, it will use a

In 1908 7,836,729 tons of it

the Bessemer process, fifty-two per

cent. of the United States output be-

The coming assemblage of iron-

masters is not the first to be held in

the United States. Just twenty years

ago a notable assemblage of metal-

Hall, New York. It was a meeting of

# **Interesting Facts Concerning** Steel Industry in America hearth method of steel process. The open hearth method of steel process and double economy, both in the cost of double economy, both in the cost of its operation. Moreover, and here is

Steel and Iron Institute to Meet at New York This Week--- in making steel under the Bessemer Many Notables From Across the Sea Will be Present---The So open hearth steel, particularly by the basic method, has crept apace No. 321—Subt Last Gathering of a Similar Nature was Held Twenty Years upon duct.

Within an hour's ride of New York, Indiana sands within five years, the terial from which to make guns there hearth percentage increased to eighty at Tuxedo, in the narrow gorge of ironmasters will be taken. Before was little use in trying to make their five, the figures of production being Marysville, 18.40. Rama po, stands a crumbling stone they return to the Atlantic seaboard ruin. It marks the beginning of the they will have a measurable respect State, almost at its beginning with- in 1860 with a modest output of 11, in the nation. The crumbling masonry is the last remnant of the figure of 23,955,021 tons. Sterling forge, in which the foundations of the Townsend fortune were

than two feet in length and each es of ancient New England homes.

negie. William L. King and William

B. Dickson, men who have loomed

There gathers in the city ol New

York at the end of this week the

American Iron and Steel Institute

its first formal assemblage. To the

ranks of the great ironmasters of

the United States who in this age

of steel stand nationally pre- emin-

ent, are to be added a coterie of

furnace proprietors from over the

seas whose great furnaces, forges

and iron mills cover hundreds of

acres, whose combined wealth 6and

financial resources would make a

debts of some sizable countries.

sum approximating the national

large in the steel world.

industry with New York for American steel-which, starting

CRUDE BEGINNINGS

The beginnings at Lynn was crude In the Sterling furnaces American enough. Thomas Dexter and Robert Paris and he bore with him to the ternational institution, often called history was forged for it was there Bridges, together with some lesser Emperor a model of a cannon, cast the Iron and Steel Institute of Great 13.30. the anchors of the frigate Constitu- associates, set up their foundry on out of highly polished steel. Napol- Britain, that called the ironmasters, tion were made by the first Town- the western bank of the Saugus Rivwho called himself ironmaster. er in 1645 with the aid of John bureau drawer, remarking that some gether at that time. The work of And it was Peter Townsend, too, Winthrop, Jr., who brought a dozen day it might become an interesting that international organization has 19.15. who there forged the great chain expert ironworkers with him from relic. which the patriots stretched across Hammersmith, England. The fires on the Hudson in May, 1778, at West that forge by the bank of the Saugus Point, to prevent the British men- were dead long before the Sterling It was only a little time after that of regulating competition, but has of-war from passing further up Furnace came into the zenith of its before the ironmasters went trooping given itself over to the problems of the river. The honestly forged chain hospitality, but some of its work- up to London. They had heard how iron and steel manufacture. In that served its purpose faithfully. A bit quaint little old wrought kettles- Bessemer was making steel as one respect it differs from the new Iron of it with its great links, each more can still be found on the quiet shelv- might make pig iron, and of the sim- and Steel Institute. The new insti-

WILLIAM B. DICKSON

making plants of the United States. invented in 1856 and changed the enclose of the war. Troy was an earlier

ELECTRICAL W

ALL BRANCHES

Prices Moderate, consistant with thorough, safe work and approved materials.

heavy, elongated projectiles revolve. 14,493,936 tons of open hearth to Bessemer agreed with him and that 9,330,703 tons of Bessemer. night as he drove in a cab from the post at Vincennes to Paris he decided to first improve the quality of gun material. He hurried to Cheltenham and busied himself with reverberatory furnaces.

After la time Sir Henry returned to the Iron and Steet Institute, an in- Chatham Junction 11.25. eon took the toy and placed it in a theri chemists and their engineers to- and Chatham Junction, 16.00.

IRONMASTERS INTERESTED

plicity of his process, merely blowing tute, according to its founders, seeks weighing a hundred pounds, is still The iron industry in America was atmospheric cold air up through the not only to improve manufacturing Point. And in revolutionary days try quite another thing, which did But the inventor was having his own trade relations between the individual at 8:35. Mr. Townsend first began at Ster- not come into its own until Sir Hen- difficulties. He was making his steel manufacturers ling forge, "in the German manner" ry Bessemer had made his wonderful from Blaenavon pig, a high grade ore | Sir James Kitson, the president, the manufacture of that peculiarly process for making steel rapidly and and it was going to be no easy matcheaply practical. Bessemer steel was ter to make it from all kinds of pig. and Steel Institute in October, 1890.

commercial. It has never concerned 21.55. itself with market prices or methods presided over the meeting of the Iron He came to this shore with a large delegation of iron experts from overseas. It was expected that Sir Henry Bessemer would be the chief figure of decline because of his advancing years

> Abram S. Hewitt, who was, in turn, decorated with a medal in recognition of his distinguished services to the Before its members left New York the institute had dedicated the monument to Alexander Lyman Holley, which stands in Washington square. Mr. Holley was among the leaders of that well famed coterie of ironmasters in Troy, and was one of the men who furthest advanced the making of steel in the days when it was just

Mr. Andrew Carnegie, then in the full

flush of his attainments as a mighty

ironmaster, was one of those who

welcomed the foreigners. Another

The 225 members of the institute left New York at the close of the Chickering Hall sessions for a ten Tuesdays, Thursdays and Saturdays thousand mile trip to the leading at 4.30 p.m. steel works and rolling mills of the land. Steel was certainly coming That today has remained one of the into its own in 1890. In that year great problems of the Bessemer pro- it demanded for its furnaces 10,500,cess. In the earlier day it caused a great public distrust, quite peculiar to the British nature, of the invention.

Steamer Elaine leaves for St. John gurious substitutes. When we compound your prescriptions we give your day at seven o'clock. Arrives every that is called for, and the best of the various compounds. We done and the best of the various compounds. We done and the best of the various compounds. We done and the best of the various compounds to the British nature, of the invention. its own special train, dipped as far 4.30 p.m. But Bessemer kept hard at it and south as Birmingham, Ala. That was in a short time he was pro- its own graceful tribute to the reina ton from charcoal pig iron which four years that immediately preceded three o'clock p.m. Arrives from Gagewas worth, perhaps, \$35 a ton, by Lat session of 1890 the South doubl- town at 10.30 a.m. his simple atmospheric process. Bri- ed its production of pig iron and tons are hard to convict, and months that immense increase was immedielapsed before any ironmaster would ately reflected in the production of try it. Still, with the almost invalu- steel. Birmingham has just been re- on western side of river leaves the able aid of Mr. Robert F. Mushet in ported by the census authorities as post office Tuesdays, Thursdays and the solution of some of the practical having quadrupled her growth within Saturdays at 7.30 a.m. problems of the new process. Besse- the last decade, an almost incredible

mer finally induced his friends the feat for a sizable city. Galloways of Manchester, to adopt The institute met again in this city the process in their furnaces. After in 1904, repeating much of the prothat his process was established and gramme of the session of fourteen foundations were laid for the years before. Again its members made by special train an inspection The process came quickly to Ameri- trip of the great American plants. These men and to be the guards of pall by day and the fires by night ca. Before war times Cooper, Hewitt This trip was shorter, the party dithe American steel and iron mas rs are like unto the hearthstones of the & Co. were installing a Bessemer New York by way of Buffels and oth at a splendid public dinner, and afgreat gods, and where steel is the convertor in their famous furnace at New York by way of Buffalo and othterwards upon a fast special train, greatest god of all, to Gary, the Phillipsburg, N. J. But the first real Property in St. Loviet which in six busy days is to make a city of one hundred thousand busy quantities of the new oroduct were Fair in St. Louisf whirlwind circuit of the great steel souls, that has been built upin waste run at Tray, N. Y., almost at the

FOR CLOSER RELATIONS.

They will not see the ruin on the Ramapo at Tuxedo, or the little ash strewn spot at Lynn, Mass., which marks the very beginnings of the iron industry in the United States, but they will see steel in the high remarks of the little ash invented in 1856 and changed the enclose of the war. Troy was an earlier tire industrial history of the world. Pittsburg. Peter Cooper and Abram It made itself a factor for safety and S. Hewitt established great iron works there, with the aid of Alexand works there, with the aid of Alexand ready held some interesting meetings, at which valuable papers were in the Englishman's new tissue from the The Coopers, the Hewitts, the Winfered in 1856 and changed the enclose of the war. Troy was an earlier tire industrial history of the world. Pittsburg. Peter Cooper and Abram Institute, which is this week coming into the fulness of its being, has already held some interesting meetings, at which valuable papers were offered and interesting discussions of the little ash the li but they will see steel in the high zenith of her glory. They will first see the towers of Manhattan climbing aloft, the mighty bridges that span the East River at four different places, and then they will see where the lass of manufactand.

From Buffalo, where steel has just become a great civic industry the make gun projectiles revolve in a built a great mestopolitan city, through the busy Mahoning Valley, where the smoke of the hundreds and hundreds of furnaces make a great that unless there was a better marked in foremost engineers and metallurgists. The Coopers, the Hewitts, the Winslows, the Griswolds and the Burslows, the G

the use of chemicals, which forms the acid process, or by the use of acer-

INTERCOLONIAL DEPARTURES.

No. 303-Mixed for Loggieville, 5.00 No. 317-Suburban for Gibson and

No. 321-Suburban for Gibson an upon the more famous Bessemer pro- Marysville, 11.15.

No. 323-Suburban for Gibson and were produced, against 6,116,755 by Marysville, 16.20. No. 301-Express for Loggieville,

Campbellton, Chatham, ing open hearth. Last year the open Montreal, etc., 18.30. No. 327-Suburban for Gibson and

> No. 329-Suburban for Gibson and Marysville, 22.00.

> > ARRIVALS

No. 306-Suburban from Marysville

lurgists is gathered in Chickering 7.45. No. 302-Express from Loggieville, No. 308-Suburban from Marysville

> No. 304-Mixed from Loggieville OH! YOU SEALSHIPT OYSTER No. 310-Suburban from I. sville

316-Suburban from Marysville always been technical rather than No.

CANADIAN PACIFIC

DEPARTURES.

6:20 a. m.-Express for St. John Portland, Boston, Woodstock, etc. 8:15 a. m.-Mixed for Woodstock shown on the parade ground at West quite one thing and the steel indus- cauldons for some fifteen minutes. relations, but to establish better and points North. Leaves St. Marys

9:45 a. m.-Express for St. John and points east. 4:30 p. m.-Mixed for Woodstock

ia Gibson branch. (Daily.) 5:45 p. m.-Express for Montreal nd Boston, Woodstock, St. Stephen

9:00 p. m.-Express for St. John that delegation, but he was forced to and points east.

ARRIVALS.

9:10 a. m.-Express from St. John nd points east. 11:40 a. m.-Mixed from Woodstock

who addressed them was the late via Gibson Branch. (Daily). 11:50 a. m.-Express from Montreal

7:50 p. m.-Express from St. John nd points east. 9:20 p. m.-Mixed from Woodstock,

and points North. 10:40 p. m.—Express from Boston, ortland, Woodstock, St. Stephen,

STAR LINE S. S. CO.

Steamer Victoria leaves for St John every Monday, Wednesday and 'riday at 7 o'clock a. m. Arrives on

Steamer Elaine leaves for St. John are absolutely pure, and devoid of in-

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SEALED TENDERS addressed to the undersigned, and endorsed, "Tender

Plans, specification and form of con tract can be seen and forms of tender The new American Iron and Steel obtained at this Department and at the offices of J. K. Scammell, Esq., District Engineer, St. John, N.B., and Geoffrey Stead, Esq., District Engineer Chatham, N.B.

R. C. DESROCHERS

Department of Public Works,
Ottawa, September 23, 1910,
Newspapers will not be paid for this
advertisement if they insert it without
authority from the Department.

#### PUBLIC NOTICE

The draw of the Highway Bridge will be opened from 4.30 p. .o'clock on Monday until 5 o'clock on Tuesday morning, to allow the dredge to to accept the lowest or any tender. work in the river channel. It will also be open during the same period n the following days until the work

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undersigned, and endorsed "Tender for Public Building, Hartland, N. B., will be received at this office until 4.00 P. M. on Wednesday, October 19, 1910, for the erection of a Public Building at Hartland, N. B.

Work done at reasonable prices. Hours:

Plans, specifications and form of contract can be seen and forms of tender obtained at this Department, on application to Mr. D. H Waterbury, Supt. of Public Buildings, Public Works Department, St. John, N. B., and at the Post Office at Hartland.

Posson tendering, are notified that

Post Office at Hartland.

Persons tendering are notified that tenders will not be considered unless made on the printed forms supplied, and signed with their actual signatures, stating their occupations and places of residence. In the case of firms, the actual signature, the nature of the occupation and place of residence of each member of the firm must be given.

Each tender must be accompanied by

of the firm must be given.

Each tender must be accompanied by an accepted cheque on a chartered bank, payable to the order of the Honourable the Minister of Public Works, equal to ten per cent. (10 p. c.), of the amount of the tender, which will be forfeited if the person tendering decline to enter into a contract when called upon to do so, or fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself By order,

R. C. DESROCHERS,

Department of Public Works,
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