

Twenty-Five Years Ago.

EXTRACTS FROM THE FILES OF THE CANADIAN MANUFACTURER OF JUNE 23, 1882.

EDUCATION IN MANUFACTURES.

Elsewhere we print an article from an English contributor on the importance of technical education as an aid to manufacturing progress. It will readily occur to many of our readers that the subject is an important one for Canada as well as for England. Owing to the pronounced attitude taken by the Dominion with regard to the promotion of home industries it is more important to us now than ever it was before. It is, therefore, in order to examine what we have already in the way of provision for education in the manufacturing arts, and to consider what is yet wanted. In Ontario we have now the School of Practical Science, in connection with the Ontario Provincial University. It cost for building, exclusive of apparatus, \$30,353, and was opened in September, 1878. Instruction is given by the following professors:—Dr. Daniel Wilson, ethnology; E. J. Chapman, mineralogy and geology; James Loudon, mathematics and natural philosophy; R. Ramsay Wright, biology; J. Galbraith, engineering; W. H. Pike and W. H. Ellis, chemistry. The departments most directly connected with manufactures are of course those of chemistry and engineering. Evening lectures, specially adapted to skilled mechanics and artisans, were commenced in November last, one of them being given every Monday by Professor Galbraith, on applied mechanics, and two on other evenings on chemistry, by Professors Pike and Ellis. The department of mathematics and physics, conducted by Professor Loudon and Mr. Baker, may be said further to be in close relation to the improvement of manufacturing skill. Dynamics, sound, light, and heat, are the leading subjects here, a scientific understanding of which is of great practical value for promoting manufactures.

In the report for 1880-81 it is stated that the School is still imperfectly equipped, but the hope is expressed that the appliances yet wanting will soon be furnished on a scale worthy of a Provincial School of Science. A list published of those attending the evening classes, shows forty students in applied mechanics, fifteen in chemistry, five in both and eight in all the courses.

The Montreal Witness says that the immigration by way of Quebec so far this season has been about thirty thousand, more than double the number arrived at this time last year; and thinks it looks as if many more people are coming into the country now than are leaving it. Let us rejoice that the "exodus" so much talked of is stopped at last.

The new firm of Hay & Patterson, of Galt, are about entering into the manufacture of machine knives of all descriptions, including cheese-box knives, paper knives and edge tools. They are now preparing their factory, a stone building, 75x52 feet, for this manufacture, which will be completed and in operation about the first of August. The power is to be supplied by a 35 h.p. engine.

Three car loads of carding machines have arrived for the Kingston knitting mill, and also two car loads of spinning machines. A

temporary engine has been placed in position at the mill for the purpose of testing the machines as they are erected. The machinery is of the most modern that is manufactured, and is a great improvement on that of the last mill. Men commenced to place it in position to-day.

The old established firm of Messrs. John McArthur & Son, Montreal, wholesale dealers in paints, oils, dyestuffs, etc., will in future be known as McArthur, Corneille & Co. The late firm was composed of Messrs. James G. McArthur, Milton Pennington, and Chas. C. Corneille. Mr. Milton Pennington, who has been a member of the firm since 1867, now retires, and the name of the firm has been changed as above.

Hamilton Spectator:—There arrived in this city yesterday the largest steam hammer in Canada; and its arrival was one of the direct results of the sustaining of the National Policy at the recent election. The Hamilton Forging Works waited to see the result of the election, and, find it to have gone the right way, the big steam hammer was immediately ordered by telegraph. When the hammer gets into position it will weigh, in iron work alone, no less than twenty-five tons.

The Messrs. Crossley Bros., of Manchester, England, the manufacturers of the celebrated "Otto" silent gas engine, are now represented in this manufacture in Canada by John Doty, Toronto, engine and boiler manufacturer. The "Otto" requires but a small jet of gas, the expense of boiler and attendant being done away with. At a comparatively small outlay a manufacturer can have in his upper room, if necessary, a perfectly noiseless and clean engine up to as great a power as 85 h.p. Mr. Doty is now making a specialty of those of from two to eight h.p.

The Smith-Elkins Mfg. Co., Sherbrooke, are about to erect extensive buildings in connection with their works. These buildings embrace a new foundry, blacksmith shop, and boiler manufacturing building, and will be erected immediately contiguous to their present foundry building, which will be converted into the machine shop of the company. The company will thus have all their works concentrated in close proximity and on the ground floor, thereby enabling them with ease to convey their heavy castings from one department to another, as well as enabling the foreman to properly oversee all the work under construction.

The village of Valleyfield, situated, as is well known, at the upper or west end of the Beauharnois Canal, is to-day one of the busiest places in the province. The Montreal Cotton Co. have had their works there for some time, a large stone mill with 35,000 spindles and a weekly capacity for about 2,000 pieces of goods, of which there are some ten or twelve grades. The mill is being doubled in capacity, and there are at present, in addition to the 400 or 500 people engaged in the factory, between 300 or 400 mechanics and work people employed on the building.

Messrs. Cavan & Co., of the Galt foundry, have been given a large order for a full

assortment of wood-working machinery by the Chatham Mfg. Co. We published the prospectus of this company some short time back, and it would appear from the above that the promoters have been successful. The object of the company is to engage exclusively in the manufacture of wagons, etc., for the North-West, and as there is a large demand for such vehicles, and as the works will be erected at Chatham, a most favorable point for securing the different woods that enter into the manufacture of wagons, etc., we would think that the company have a prosperous future before them.

Messrs. Firstbrook Bros., Toronto, are replacing their former premises by a large brick factory 90x70 feet, two stories high and basement. A new boiler of 75 h.p. has been placed to drive a new 35 h.p. engine as well as the one before in use of 25 h.p. The former will be utilized in driving the small planers, dove-tailers, borers and sand papering machines of the upper story, the other engine to drive the large planers and matching machines of the lower flat. The firm employ from forty to forty-five hands, to be increased. The quality of work produced is well known throughout the city and Dominion, and the enterprise of this firm will be rewarded, as in the past, by a brisk and prosperous business.

The Montreal Gazette says: "We are glad to learn from what is considered good authority, that Messrs. H. Disston & Sons, the celebrated saw manufacturers of Philadelphia, are about to erect extensive works in Canada, now that the policy of protection for Canadian industries has been practically settled as the policy of the country. This firm, probably the largest in the world in their special line, employ about nine hundred men in their works in Philadelphia. In starting an establishment in Canada, they contemplate supplying not only the Canadian market, but supplying as well a large part of their foreign trade from this point. This is another of the indications which go to show how wise, from a patriotic standpoint, was the decision of the people of Canada at the recent elections."

BE GOOD NATURED.

Did you ever realize the value of keeping good-natured? This is one of the greatest aids to a successful retail business that a man can have, and is far beyond estimation in cash value. Not only does it keep you contented with trade whatever may come up, but it keeps all your employees in the same humor, and they in turn fill the minds of the public with the impression that with such happiness and good nature surely there must be business success. People love to aid a happy man. Notice the impression made on you when you wake up and rush to work a little late. On the way to the train you meet another neighbor who is whistling as though he had not a care in the world. On the train you meet another who has a pleasant yarn to tell. Your whole day has been changed. Whereas you got up feeling tired and cross, by the simple magic of one good-natured man, you were led to forget your troubles and look for a minute on the bright side of life. In that brief minute you caught the spirit and your disposition for the day was changed.—Shoe and Leather World.