

THE TRENT VALLEY CANAL

NATURE'S SHORT ROUTE GRAIN CARRYING WATERWAY, AND ITS TREMENDOUS POSSIBILITIES.

Cheap Power and Cheap Transportation are the Two Principal Factors of the Cost of Manufacture, and a Rothschild has Declared that "This District is Destined to Become One of the Great Manufacturing Centres of the Continent"—The Hydraulic Lift-Lock at Peterboro Represents the Modern European Method—Interesting Article by Mr. J. Alexander Culverwell, of Peterboro.

(Canadian Electrical News.)
What a remarkable situation for Canadians to witness to-day—that at this late day they discover the Trent Valley Canal has followed out the same method adopted in the \$100,000,000 modern German canal system connecting the coal and steel districts with the North Sea, viz., LENGTH AND BREADTH OF LOCK RATHER THAN DEPTH.
The draught of the German barges is 7 1/3 feet and capacity 1,000 tons.



PETERBORO LIFT-LOCK.

The dimensions of the Trent Valley locks are 134 feet long by 33 feet wide and will have a depth of 8 feet 4 inches on the sill, as per departmental instructions. The locks will accommodate barges of 800 tons or 25,000 bushels, and the total cost of the work will be \$9,000,000.

The present Erie Canal, which has a capacity for only 240 ton barges, is now being enlarged by New York State at a cost of \$10,000,000 to accommodate barges of 1,000 tons, 150 feet long, 25 feet wide, and having ten feet draught—the depth on lock sills being 11 feet, and the depth in the canal reach 12 feet.

The work of the Trent Valley Canal was originally commenced by the Imperial Government in 1825, but the money voted was diverted to quell the Mackenzie rebellion. Construction was again started in 1889 by the Dominion Government and has been dragging along until now. Nearly \$8,000,000 has been expended, and this colossal construction will have been completed between Lake Couchiching—an arm of Lake Simcoe—on the north, and Rice Lake on the south. The balance, viz., \$5,000,000, would open up the two outlets, the northern outlet between Midland and Georgian Bay and Orillia on Lake Simcoe, and the southern outlet between Rice Lake and Lake Ontario, either at Port Hope or Trenton. This waterway would then open up about 1,000 miles of inland shore line, as many of the lakes and rivers lie transversely to the line of the canal, and have some six million acres of land within ten miles of its wharves.

In its national work of utility, the Trent Valley Canal and waterway will connect Georgian Bay at Midland where the great lake carriers will discharge the Northwest grain into the Trent Valley barges, which, passing through this series of connecting short canals, lakes and rivers, via Peterboro, will enter Lake Ontario at Port Hope or Trenton, and thence proceed by the St. Lawrence river and canals to the city of Montreal, where they will discharge into the ocean carriers for Europe. THE OLD 9-FOOT SYSTEM OF ST. LAWRENCE CANALS, which are still in existence, CAN BE USED BY THE TRENT VALLEY BARGES, which therefore will not need to crowd up the new 14-foot St. Lawrence ship canal system—a great advantage.
Cheap power and cheap transportation are the two principal factors of the cost of manufacture, and with such advantages as the cheap power now offering at Peterboro, and also offered elsewhere on the canal, it does not take a Rothschild to see, as he did in 1886 and make the statement that "This district is destined to become one of the great manufacturing centres of the continent." Surely it must be admitted the possibilities of this district are that it will become a great industrial bee-hive, and that Midland and other towns on the Georgian Bay, as well as Orillia, Barrie, Lindsay and Peterboro and the great Midland district, on the line of the canal, will be simply feeders to the trade and prosperity of Toronto and Hamilton, etc., as well as points east and west. Here it may well be noted that the manufacturing development at Peterboro, in particular, has been remarkable indeed the past three years. There is every reason to expect that the Trent Valley Canal will be lined with great flour-mills—we have already made a great start at Peterboro and Lindsay—and thus become a second "Minneapolis" district—by reason of the cheap water-power and the short route waterway from the Northwest. If we would be consistent in our "Made-in-Canada" cry, we should not export our GREATEST PRODUCT as raw material.
The great lumber regions on the shore of the Georgian Bay can be tapped by the Trent Valley barges, I

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BEAUTY OF SKIN PURITY OF BLOOD

Ancient and Modern Ideas on These Interesting Subjects.

UP-TO-DATE METHODS

For Purifying and Beautifying the Skin, Scalp, Hair and Hands.

Socrates called beauty a short-lived tyranny, Plato a privilege of nature, Theophrastus a delightful prejudice, Theophrastus a silent cheat, Carnades a solitary kingdom, Homer a glorious gift of nature, Ovid a favor of the gods. Aristotle affirmed that beauty was better than all the letters of recommendation in the world, and yet none of these distinguished authorities has left us even a hint of how beauty is to be perpetuated, or the ravages of age and disease defied. Time soon blends the lily and the rose into the pallor of age, disease dots the fair face with cutaneous configurations and crimsones the Roman nose with unsightly flushes, moth, if not rust, corrupts the glory of eyes, teeth, and lips yet beautiful by defacing the complexion, and fills the sensitive soul with agony. If such be the unhappy condition of one afflicted with slight skin blemishes, what must be the feelings of those in whom torturing humours have for years run riot, covering the skin with scales and sores and charging the blood with poisonous elements to become a part of the system until death? It is in the treatment of torturing, disfiguring humours and affections of the skin, scalp and hair, with loss of hair, that the Cuticura remedies have achieved their greatest success. Original in composition, scientifically compounded, absolutely pure, unchangeable in any climate, always ready, and agreeable to the most delicate and sensitive, the present to young and old the most successful curatives of modern times.

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port in the same time as would be consumed for only two trips to Buffalo. In fact, the Welland route between the Soo and Montreal WILL BE A DAY LONGER, OR TWO DAYS

ling locks, thus reducing the time as well as operating charges. The German lock lifts a 1,000 ton barge, while the Peterboro lifts an 800 ton barge. There is also a double lift-lock at Lewiston, built in 1888, and also a lock at Anderton in the west of England. Detailed figures as to the probable cost of carriage by Trent Valley steam-barge with several tow-barges in consort between Midland and Montreal were submitted to the Royal Commission on Transportation at Peterboro by practical mariners, which will show out my previously repeated contentions that grain could be shipped via Trent Valley in a much shorter time and at a cheaper rate than via the new Enlarged Erie route, notwithstanding the enlarged Erie locks will accommodate two barges in tandem. Here it must not be forgotten that the Trent Valley expenditure will only total \$9,000,000 as against a total of \$13,000,000 which is the cost of the present Erie canal together with the proposed enlargement. The Trent Valley locks can be operated at a small comparative cost, thus further shortening the time of a fleet of barges and cheapening the rate over the Enlarged Erie, as also enlarging the total tonnage of the canal.

Surely anyone should see at a glance the superiority of the Trent Valley route over the Enlarged Erie when it is noted that there will be 257 miles of actual standard canalage and 233 miles of lake on the new Erie between Buffalo and New York, while there will be only 13 miles actual standard canalage on the Trent Valley and 45 miles on the St. Lawrence canal, or a total of 58 miles of canalage and 41 miles of river and lake between Midland and Montreal.
The late Mr. E. Sweet, C. E., State Engineer of New York, has shown by experiments that the same power will drive a barge 4 miles per hour in Erie standard canalage will drive a barge 5.9 miles per hour in open water. This feature alone will cause a great saving both in time and in coal consumption on the Trent Valley over the Enlarged Erie.
Carpenter mariners are clamoring the Government to enlarge the Welland Canal, to enable 6,000 ton boats to pass on to Kingston, making necessary a 21 foot channel, and doubling the length of locks—the idea being to discharge at Kingston into 2,000 ton barges, the cost of which is well assured would be some \$33,000,000. This request was made just after \$40,000,000 had been spent on enlarging the whole Welland-St. Lawrence route from 9 to 14 feet. I advocate, FIRST, the spending of the five millions necessary to complete the outlets of the Trent Valley Canal, and would point out the fact that marine experts writing in American journals have stated that the only Canadian route they feared was the barge route through the Trent Valley, which, as they express it, was simply a connecting up of lakes and rivers. "The grain-hopper is full but the spout is small." "Canadian must surely now awaken to the fact, that in the Trent Valley Canal, this country has been entertaining an angel unwares."

J. ALEX. CULVERWELL.
BABY'S HOLD ON LIFE.
The little ones are frail—their hold upon life is slight. The slightest symptom of trouble should be met by a reliable corrective medicine. Baby's Own Tablets have proved their record of success to be an ideal medicine for the ills of infants and young children. The Tablets cure all stomach and bowel troubles, allay the irritation of teething, break up colds, prevent croup and destroy worms. The mother has a guarantee that this medicine contains no opiates or harmful drugs. Mrs. T. E. Grayson, Maritima, Que., says: "I have used Baby's Own Tablets with great success. They cured my little boy's teething, to cure the little ills of children." You can get these Tablets from any medicine dealer, or they will be sent by mail at 25 cents a box by writing The Dr. Williams' Medicine Co., Brockville, Ont.

Saint John, New Brunswick.
A profusely illustrated Booklet, of 40 pages descriptive of St. John and New Brunswick, containing maps, and useful information for the traveller, has been received from the Secretary of the New Brunswick Tourist Association at St. John, N. B. We are advised that copies will be mailed free to any address on application to Mrs. R. E. Olive, Secretary New Brunswick Tourist Association, St. John, N. B. Any person contemplating a trip to New Brunswick should be supplied with this guide.

Soft and crooked bones mean bad feeding. Call the disease rickets if you want to. The growing child must eat the right food for growth. Bones must have blood food and so on through the list.
Scott's Emulsion is the right treatment for soft bones in children. Little doses every day give the stiffness and shape that healthy bones should have.
Bow legs become straighter, loose joints grow stronger and firmness comes to the soft heads.
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TEACHERS OF EAST VICTORIA

GATHERED IN CONVENTION IN LINDSAY LAST WEEK.

A Beneficial Conference on School Matters—Interesting Lecture by Mr. Saul, Editor of the Educational Monthly in the Collegiate Hall.

The convention opened at 10 a.m. Thursday, with Mr. Harstone, the president in the chair, and Mr. Knight, Inspector, at his right hand. Owing to the efficiency of the weather there was a large and enthusiastic gathering. After preliminary business had been transacted President Harstone addressed the Association taking for his subject, "Our Educational Interests." He stated that two great dangers which threatened the educational interests of our province were (1st) the employment of inexperienced teachers, (2nd) the absence of male teachers from our schools. These evils were accounted for by the small remunerations made to teachers.
Mr. McDougall read a paper written by Mr. Walter Brown, of the Canadian Correspondence College, entitled "Developments in Modern Education."
The resolution of the West Huron Teachers' Association regarding the re-establishment of the Public School Leaving Examination was discussed by Messrs. McEachern, Knight, Rogers, and Colling, and Miss Florence Graham. It was finally moved by Mr. McEachern, seconded by Mr. Rogers, that this Association does not agree with the resolution of the West Huron Teachers' Association. Carried.

Afternoon Session.
Mr. W. J. Elliott, B. A., Vice-President of the Toronto Normal School, gave a most interesting and instructive lecture on "Nature Study," which does not consist, as is stated, in pulling the flower or insect to pieces, but in studying its life, and its peculiar adjustment to its environment. The subject of "School Libraries" was then forcibly discussed by Misses Alena Ward and Johnson, and Messrs. Rogers and Hardy.
Mr. Hardy read the report of the Library Committee, after which Mr. Knight spoke of his sorrow that the people of Victoria County were so far behind other counties in this respect, and urged the teachers to take the matter in hand and wipe out the disgrace.
On Thursday evening at 8 o'clock one of the most successful lectures, since the convention was first held, was given by Mr. Saul, M. A., editor of the Educational Monthly. Mr. Thos. Stewart presided as chairman. The subject of his address was "Ten-penny." The lecture was interesting and instructive throughout. There were a great number of limelight views of Ten-penny, his friends, his different residences, and many of the scenes depicted in his poems, which greatly added to the pleasure of the evening. At the close of the lecture Mr. Harstone and Mr. Elliott moved a vote of thanks to Mr. Saul on behalf of the teachers of East Victoria and the public.
FRIDAY MORNING.
After the roll was called Mr. W. H. Elliott spoke on "Habit" in relation to the school. He pointed out that the weakest point of our teaching is doing too much for our pupils and making the road too easy for them. He urged teachers to place themselves in the background, and bring the pupils to the front. It does not matter what we teach, but it matters much who teaches it. Poverty and Society are two great drawbacks to the child's education. In the former case the mother goes to her work, leaving her child to play in the street unattended; in the latter the mother goes to lectures, theatres, etc., leaving her child to the care of untrustworthy servants. There should be cultivated in the child cleanliness and neatness, endurance, self-control, punctuality, which will make him purposeful, determined and resilient. A discussion followed on Mr. Elliott's address, in which Messrs. Holy, Knight, Saul and Harstone took part.
After a short intermission Mr. McEachern delegates to the Ontario Educational Association, gave his report to the Convention, and Mr. Newton Smale, delegate of the County Council to the Ontario Educational Association gave a very interesting report of the Trustees' Department. He stated that all the trustees who met at that convention agreed that salaries are much too low. He also suggested a joint meeting of teachers and trustees to be held at some convenient time.

Afternoon Session.
Mr. Rogers, of the Separate School gave his report of the Public School Department of the Ontario Educational Association held this year, dealing particularly with the proposed changes in the curriculum of the public school system. A discussion followed in which Mr. Knight and Mr. Elliott took part. Mr. Elliott, in the course of his remarks, advised teachers not to answer advertisements in which the salary was not stated. At the close of the discussion Mr. Elliott gave a paper on "Attention," and Mr. Harstone gave the report of the nominating committee on officers for 1906 as follows: President, Mr. McEachern; Vice-President, Mr. Rogers; Sec.-Treas., Miss Thomey; Committee, Misses Maloney, Fanning, Hanahoe, Mabel Graham, and Messrs. Ramsey, Harstone, Bryson, Veals, Broderick, Hardy.
It was then moved by Mr. Rogers, seconded by Mr. McDougall, that the thanks of this Association be tendered Mr. Elliott for his services. Inspector Knight is to be congratulated on the success of the convention.

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Vegetable Preparation for Assimilating the Food and Regulating the Stomachs and Bowels of INFANTS & CHILDREN
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Add to all these advantages the very material one that the interest or shares in the surplus earnings of this leading Company, and have an opportunity for safe and profitable investment rarely equalled. A handsome booklet, giving a full explanation, will be sent on request.

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THE RESULT of ignorance and folly in youth, overexertion of mind and body, induced by heat and exposure are constantly wrecking the lives and future happiness of thousands of promising young men. Some fade and wither at an early age, at the blossom of manhood, while others are forced to drag out a weary, fruitless and melancholy existence. Others rebel against money but find no solace or comfort there. The victims are found in all stations of life—the farm, the office, the workshop, the pulpit, the trades and the professions. Nervous Debility and Sexual Weakness are guaranteed cured by our New Method Treatment at \$4.00. You run no risk. 25 years in Detroit. Bank security.
I am 33 years of age and married. When young I led a reckless life. Early indiscretions and later excesses made trouble for me. I became weak and nervous. My kidneys became affected and I feared Bright's Disease. Married Life was unsatisfactory and my home unhappy. I tried everything—all failed till I took Dr. Kennedy & Kergan's New Method. My mind and body are now as healthy as ever. My wife and children can be cared by reliable doctors. —W. A. Nelson.
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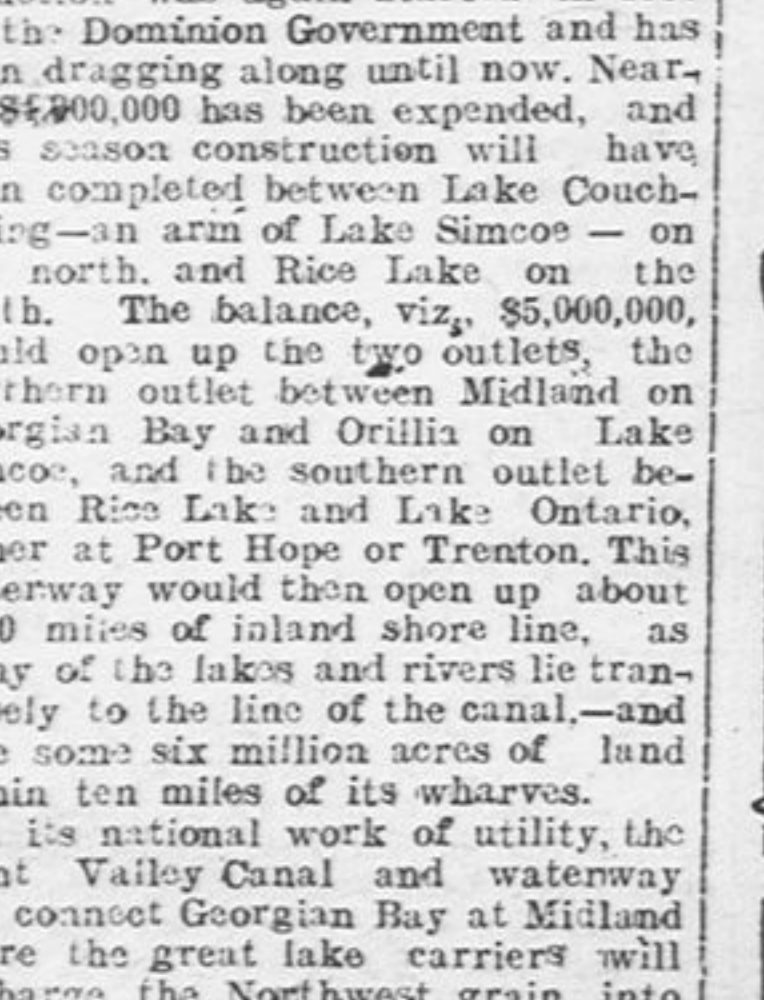
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Indigestion kills more chickens than any other disease. When chickens begin to droop—look peaked and thin—won't eat—it's due to over-feeding or wrong feeding. Season the food with Myers' Royal Poultry Spice if you want to raise plump, strong, vigorous poultry.
It tones the stomach—regulates the bowels—keeps chickens, ducks and turkeys fat and healthy—makes hens lay all winter, and young pullets early layers—and insures fertile eggs.
Myers' Royal Poultry Spice is a reliable tonic—that is indispensable to the farmer who wants to make money out of his "chickens yard."
Write for illustrated booklet. You'll find it interesting from cover to cover.
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