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An illustrated description of the Union Station, Toronto, with biographies of the Grand Trunk Eailway officials will appear in our next laste.

CANADA PAST AND PRESENT

(Continued)

A WONDERFUL DISCOVERY

COMPRESSED PEAT AS FUEL

No More Proights for Coal in Puture

To be a British subject is a privilege all may be proud of, but to be a citizen of the Dominion of Canada, as we'l as the British Empire, is a title that might well be envied by the most exalted.

That she is moving, and that rapidly, in the advance guard of civilization, is every day more patent to the most obtuse or prejudiced. The perfect system of her schools and colleges ferver she has displayed toward imperial conferent of the control of the cont

a similar, but more complicated machine, which was said to be very effective in its operation. Owing to the fact that solidity necessary to ensure permanency was not imparted to the blocks produced by these processes, only a market limited to prescribed localities resulted, and their employment has been practically discontinued.

localities resulted, and their employers in the ment has been practically discontinued.

One essential quality of peat in relation to its value as a fuel is its density; and consequent as a fuel is its density; and consequent and a fuel is the density; and consequent as a fuel is its density; and consequent as a fuel is the ment of the consequent of sealing the consequent of solidity equal to hard coal and sufficient to stand the blast required for a very high degree of heat in the more severe processes of metal in the m

burns with considerable flame, gives an intense heat, and leaves no resi-duum except a fine light ash, which passes off freely and leaves the grate bars always free and clear.

rasses off freely and leaves the grate bars always free and clear.

For domestic purposes the new process solves the problem of furnishing a cheap, clean, uniform, and reliable fuel, as it is equally serviceable for grates, stoves, cooking ranges, and furnaces, giving a long, bright fame and intense heat almost from the moment of ignition, and its durability compares favor as the clean of the cooking of the consumed. The combustion is so thorough that no volume of free carbon or deleterious vapor is allowed to escape, hence its hygienic and economic advantage over either soft or hard coal. It will not absorb any undue moisture or deteriorate while in storage, and it is odoriess and cleanly to handle.

PEAT FUEL EXHIBIT AT INDUSTRIAL FAIR, TORONTO, 1898.

increased to a considerable extent in all peat of a fibrous nature, which caused a distention after the pressure

was removed.

In 1885 the British Government offered a reward of £50,000, which was open for five years to any inventor who could produce a process which would convert crude peat into a commercial fuel, and although the incentive was great enough to set hundreds of inventive minds at work, none could arrive at the solution of the problem until a Canadian, in the person of Mr. A. Dickson, of Toronto, who, after an expenditure of large sums of money, and nearly a decade of time, accomplished the desired end. A discovery, the advantage of which to the whole civilised world will be inestimable.

The purposes to which peat as a fuel can be applied, and the manner in which it can be used, have a range as fuel as coal of wood, or both. For invented it can be applied, and the manner in which it can be used, have a range as fuel as coal of wood, or both. For coses it is available wherever fuel received, it is available wherever fuel in the control of the control of the metal, is a consideration of immense value.

For generating steam it is superior on any other fuel. It ignites freely, In 1865 the British Government of-

For generating steam it is superior o any other fuel. It ignites freely,

If then the above advantages are facts, and the Dickson process can supply the peat so that can be factly and the process can supply the peat so that can be advantaged and the process can supply the peat so that can be advantaged and they have both been proved on the process of the process of the province and they experts of undoubted authority, what a great field of enterprise a operad in Ontario alone with our vast areas of peat bogs in close proximity to important towns in every part of the province. A new can be about to dawn upon us. For many years we have been mainly dependent for fuel, for our iron works, cur machine shops, our steam power, and the heating of our homes, to the importation of coal at a cost of millions (cf dollars annually, and as it is probably true, as stated that this fuel can be prepared for market at a less can be prepared for market at a less of more than one-half the price will be attained. Our millions will be retained in the country, and the empleyment of thousands of Canadian workmen will be assured. As a brief discription of the process used in this new and valuable discovery, and the present and future operations of the canadian Peat Fuel Company, which has for its object the utilization of the immense peat bogs to be found in Canada, and in which the inventor.

friends—holds a controlling share, will be of interest, we clip the followning extracts from the Canadian Electrical News:—"The Canadian PeatFuel Company, which owns about 4,000
acres of bog, near Weiland, Ont., have
their works now in operation.

"The process of manufacture, consists, first, in the ex-avation—ofsists, first, in the ex-avation—ofmaturity of the ex-avation—ofmaturity of the ex-avation—ofcharacter. This is ex-compositely
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clinkers during consumption."

Critical tests of the Dickson pressed peat, in the presence of advocates of coal, and the presence of advocates of coal, and the presence of advocates of coal, and the presence of the presenc

judges:—
The certificate of the Chief Engineer of the Toronto The ry Company states "that for quick-steaming this fuel proved superior to coal, quantity consumed was not greater, smoke was not visible at any time, and ash was very much less."

The report of the fireman running one of the Sawyer-Massey Company's portable engines at the Toronto Exhibition says:—"For quick-steaming I never used fuel to equal peat. It is

quite as economical as coal, and in many respects greatly superior. It is smokeless, cleanly to handle, very lit-tle ash, and no sulphurous gas, con-sequently makes no soot to gather on sequently makes no soot to gather on the tubes. I find the stoking much easier than with coal. I banked the fire at 5.39 p. m., closing off the draw, and found plenty of fire next morning at 7 a. m., with 60 lbs. of steam up. When the fire has burned out I find the grate bars perfectly clean.

The report of the manager and engir eer of Stratford water works is of suff cient interest to reproduce verbatim:

Test of peat fuel, obtained from township of Ellice, made at Stratford water works plant, Sept. 28, 1898;

CONDITIONS OF TEST

CONDITIONS OF TEST.

No. 1 Eoiler, coal fire was drawn at 3 p.m., two pine slabs thrown on grates, served to kindle peat fuel.

No. 2 belier was treated similarly, but no kindling was used, the peat fuel ignited from the hot bars.

The steam gauge registered 47 lbs. In 3 minutes the steam rose to 60 lbs., and was held remarkably steady during the test. The water level of holler averaged 4

remperature of feed water, 170 deg.

Temperature of feed water, 170 deg. Reading of vacuum guage, tempera-ure of feed water, and pressure of wa-er gauge was taken every half hour. Peat fuel consumed per hour, 310 lbs. Water pumped per hour, 21.005 imp.

Ash and unconsumed peat, 7.5 per

nt. I have no hesitation in saying that cent.

I have no hesitation in saying that fully 15 per cent. of the peat fuel was fully 15 per cent. of the peat fuel was lost owing to the excessive distance from grates to boiler. Had I known the nature of this fuel I should have recommended the raising of the grates fully 7 inches, a much finer grate bar, and an automatic damper.

Trial of selected Reynoldsville coal, September 29th, 1898.

No. 1 boiler was drawn at 3 p.m.; 50 lbs. of pine served to kindle.

No. 2 boiler was treated similarly; 50 lbs. of pine served to kindle.

The steam gauge registered 52 lbs. The water level of boiler averaged 4 inches.

Temperature of feed water, 170 deg Temperature of feed water, 176 deg. Reading of vacuum gauge, tempera-ure of feed water, and pressure of wa-er gauge was taken every half hour. Coal consumed per hour, 309 lbs. Water pumped per hour, 30,680 imp.

Ash, 8.9 per cent. (Signed) THOMAS CLARK

Mechanical Engineer and Manager Stratford Water Works.

Stratford Water Works.

Taking difference in gallons pumped into account accurate comparative results are, peat, 10,002; coal, 10,000, About as nearly equal as two fuels could burn, while if engineer's allowance to the new fuel on account of the disadvantage, unsuitable conditions imposed be calculated, the following ratio is arrived at, viz. 11,877; 10,020 in favor of see. vor of peat.

is arrived at. viz. 11,877: 10,020 in favor of peat.

The Canadian Peat Fuel Company, comprises among its shareholders some of the shrewdest financial intellects in Canada, who are represented on the directorate by the following gentlemen:—Geo. H. Perley, president, Ottorio, Jardine, Vice-president, Tororto: Hon. R. M. Wells, Toronto: Alex, Lumsden, M.L.A., Ottawa: J. S. Loudon, Assistant General Manager Canadian, Standard Bank, Toronto: E. W. Strandard Bank, Toronto: E. W. Standard Bank, Toronto: Alex, Lumsden, M.L. C.S.; E. J. Checkley, with Wilson Irwin as General Manager with Wilson Irwin as General Manager with Wilson Irwin as General Manager of the Commerce Chambers. Toronto. County rights are being rapidly disposed of. We would strongly advise every enterprising Canadian who has capital to invest, to at once communicate with it, as they are being rapidly disposed of. We would strongly advise every enterprising Canadian who has capital to invest, to at once communicate with it, as they are being rapidly disposed of, which we have been contracted for, and options have been contracted for, and options have been comprising fully three quarters of the remaining area of the Province of Contractor of Manitoba have also been applied for. Frompt attention is given to applications, and every information forwarded by the secretary of the company, Address, The Canadian Peat Fuel Company, Toronto.

We clip the following from The Globe:—

We clip the following from The

QUESTION OF PEAT FUEL

QUESTION OF PEAT FUEL.

The question of obtaining fuel from the many peat beds of Canada has been occupying the minds of a good many of our citizens since this new enterprise was given to the public at the Industrial Exhibition recently held in this cky. Those interested will be pleased to hear that a bronze medal, because it of hear that a bronze medal, pleased to hear that a bronze medal, in the machinery department, was went in the machinery department, which was the machinery department, which was the machinery department, which is must be gratifying to the company, as it shows what the directors of "Canada's Great Exposition" thought of this most important enterprise. The public at large will be glad to learn that negotiations for establishment of local plants to supply the "patent peat" fuel to all are well under way for almost every county in Ontario as well as for Manitunand portions of the older province.

cations for Territorial rights in

Applications for Territorial rights in Great Britain and any other part of the world must be sent to the paten-tee, A. A. Dickson, 110 Adelaide street west, Toronto. We cannot close this article without appending a brief autobiography of Mr. Dickson, whose inventive genius has already made him famous, and whose name will soon be a household word from one end of the Dominlon to the other. to the other.

ARCHIBALD A. DICKSON

was born in Kingston, ont., 30th November, 1854. He is of Scottish descent, his parents came to Canada in 1833, and settled in Kingston, where his father, the late Alex. Dickson, was, for many years, engaged in the crockery business.

many years, engaged in the crockery business.

His son, the subject of these notes, was educated at the grammar school in the Limestone City, aften which he engaged in fire insurance, was for some time local manager in Montreal of the Beaver and Toronto and Victoria Mutual Companies.

In 1889 he resigned in order to devote his time to the manufacture of telephone instruments, which he successfully conducted under the name of the Telephone Supply Association.

In 1885 he sold out, and focussed his whole energies to the development of the peat fuel industry and the solution of the problem that has made his name illustrious as the only man



ARCHIBALD A. DICKSON

ARCHIBALD A. DICKSON.

In the world who has been able to accomplish it, and for which he spent many sleepless nights, and many thousands of dollars. He is also the inventor of a chemical bath, which hardens gypsum after it has been cut into pedestals and columns for building purposes, and innumerable smaller articles, such as clock cases, candlesticks, etc., which have all the appearance and solidity of highly-polished marble. This, aithough a valuable invention, Mr. Dickson rightly considers of minor impeat discovery. In 1876 he marcied Miss Violet Robb, daughter of John Wanless, Esq., M.D., the well-known homoepathist, of Montreal. Five children have blessed this union, one son and four daughters. In religion he is a Presbyterian, and a Liberal in politics. Thoroughly a man of the people, full of sympathy with the struggles of his fellow men, it is quite inconciveable that the great presperity his achlevements have made ortain, will

ever alten his demeanor to the poorest of mankind. It is hardly necessary to add he is universally esteemed.



Hon. Geo. W. Ross, LL.D. Minister of Education.

BRIEF BIOGRAPHICAL SKETCHES PROMINENT CITIZENS OF TORONIO

HON, JOHN DRYDEN

HON, JOHN DRYDEN
Was born in the townshio of Whitby,
Ontario County, Ont., 5th June, 1840.
His father, the late James Dryden, was
a native of Sunderland, Eng., who came
to Canada with his widowed mother in
1820, and who afterwards married the
father of the late Sheriff Paxton, for
omany years a pro. whent resident of
Ontario county. James continued to



HON. JOHN DRYDEN

Hon, John Dryden.

live with his mother and stepfather until coming of age, when he purchased a farm for himself, subsequently purchasing another 200 acres, which formation in the common step of the now famous Mapie Shade Farm, of 420 acres, the property of the Hon, John Dryden.

The subject of this sketch was primarily educated at the common school, in the neighbourhood, subsequently finaling at the Whitely Collegiate. At the word of the starm on shared and entered and entered her farm on shared and the starm and another lot, ill of which farmer in every detail, not only in the proper cultivation of the land, but also in stock-raising, he has long been known to have no superior and few equals in America. His splendid farm is underdrained throughout, and is known far and wide as the best cultivated in the country. His special forte, however, is stock-raising. He is a constant importer of the choicest Shorthorns, Clydesdale horses, and Shropshire sheep. He possesses to-day probably the finest herd of Cruickshank Shorthorns on the continent, while his imported horses are equally celebrated. It would take a volume to give even a

cursory record of these fine animals. Suffice it to say, Mr. Dryden, among many others, bred the well-known bull "Barmpton Hero," who was never beaten in taking first prize in any ring in Canada.

"Barmpton Hero," who was never beaten in taking first prize in any ring in Canada. We may also briefly mention that his We may also briefly mention that his Judge of Lady Clare" and her filly, "Lady clare" and her filly, "Lady clare" and her filly, "Lady clare" and her filly, successful the seedless to say crowds visit the Maple Shade Farm from all visit the Maple Shade Farm from all parts of the countries of the countries of the control of the countries of the

ers.

In religion he is a Baptist, of which Church he is a liberal supporter, as well as to many charitable societies. In 1867 Mr. Drydatable societies. In 1867 Mr. Drydatable societies with the societies of the societies of the societies of the societies. In 1867 Mr. Drydatable of the societies of the societie

York. Eight children have blessed this union—only one son and five daughters survive.

His defeat, by a small majority, at the general elections last March, in the riding he had so long represented was conclusively proved, at the recent trial to be due to the most barefaced, whole-table bribery, and over one hundred cases were dropped at the urgent request of Mr. Calder, the unseated cancidate, who dreaded further exposure, but who is now taking advantage of Hon. Mr. Dryden's magnanimity in allowing him to vacate the seat, by protesting his own innocence—a misstatement so glaring as to call forth the indigention of the electors, whose intelligention of the electors whose intelligention of the electors, whose intelligention of the electors whose intelligention of the electors, whose intelligention of the electors, whose intelligention of the electors whose intelligention of the electors, whose intelligention of the electors whose intelligention of the electors whose intelligential was a sweeping majority at the coming by-election for South Omario.

R.W. BRO. R. W. BARKER P.M.; P.G.S.W.; &.B.C.; Scottish Rite, 14th degree,

R.W. BRO. R. W. BARKER
P.M.; P.48.W.; J. M.G.; Scottish Rite,
14th degree,
Was born in Kingston, Ont., 12th January, 1839. His father, the late Early and the Markey M.D., the illustrious editor and publisher of the Kingston British Whig, after taking his diploma in medicine in England, came to Canada from London, his native place, in 1833, and settled in Kingston, where for a time he was employed as editor of a paper then established. His pungent and powerful style desired the attracted the attention of the clading attracted the attention of the clading attracted the Article of the Control of the clading in 1834, which, it is The British Whig in 1834, which, it is The British Wig in 1834, which, it is the leading papers was in existence, and from whose office was issued the first daily published in Canada. Dr. Barker, John A. Macdonald's abilities and particular, and was his supporter, decided the pass of Canada and the page of Canada and the private life he was noted for his in delible mark on the pages of Canada and history, on the 28th of April, 1884.

forgiving goodness of heart, and was an enthusiastic and prominent mem-ber of the Masonic body and the St.

forgiving goodness of heart, and was an enthusiastic and prominent member of the Masonic body and the St. George's Society.

His son, R.W. Bro. R. W. Barker, received his education at the Kingston and Chatham Grammar schools.

On 27th November, 1857, he entered the Government service as a junior clerk in the Postofice Department, risting the service and produced in the Postofice Department, risting the service and support of the service and service

obessed this union, three sons and one daughter.

We had almost omitted a pleasing incident in Mr. Barker's official life. As inspector he was requested by the Chief of the Six Nation Indians to arrange a daily mail from Onondaga to Oshweken, for the convenience of those residing there; as it incurre. no great additional expense, Mr. Barker advised their request should be granised. In gratited the Council appointed him a chief of the tribe, and with due ceremony installed him under the euphonious appellation of "Karihontey," which, being interpreted into the vernacular, signifies "Flying Message,"

sage."
We understand that the ex-i spector, who is in the prime of lie and excellent health, intends taking an active interest shortly in some monetary institution, whose standing is assured, and where his active intellect will find sufficient occupation.
The above photogravure is a correct likeness of Mr. R. W. Barker, who, though not so noted as a public man as his late father, inherits his abilities and his sympathetic and generous instincts.

JOSEPH TAIT

JOSEPH TAIT

Was born at Kirkenbrightshire, Scotland, 21st Cectober, 1839, and is the son of the late John Tait and his wife (nee Miss Williamson, clerk of that ilk. He received a Liberal English education at the parish school of Kirkpatrick, Durham, Scotland, after which he served his apprenticeship to the beking trade, and subsequently worked as a journeyman in Edinburgh.

In 1871 he came to America, and the following year settled in Toronto, when he was at once engaged as manager of a large baking concern, which he ultimately bought out, and which he conducted for many years, until his appointment, when a company was formed to continue the business, and is still carried on as one of the leading bakeries of the Queen City, and known as the Tait-Bredin Company, Limited, of which Mr. Bredin is secretary and treasurer.

It was not long after his acrival to

It was not long after his arrival in Toronto before his influence for moral reform became apparent, and his mark-ed individuality at once stamped him as a leader among men. For five years



JOSEPH TAIT.

he was president of the Master Bakers' Association. An active member of the Methodist Church, of which he is a local preacher, and which the distance of the Methodist Church, of which he is a local preacher, and digast to the General Conference. All the members of the Methodist attendance, his earnest seal for the welfare of his fellowmen making his services in great demand. Was elected an alderman for Ward No. 3 in 1889, and to the Legislature of Ontario for the city of Toronto the following year. His promounced Liberalism, decisive and convincing oratory, and lucid arguments, had already prepared the way, and the season of the season o

C. C. JAMES Dpty. Minister of Agriculture,

Was born at Nayanee, Lennox county, Ontarlo, 14th June, 1862. His parents were both born in Canada. His fraternal ancestors were natives of Waterford county, Ireland, while his mother is a descendant of the Canniff family, who among many other U. E. Loyalists came to Canada after the revolutionary war of 1776, and settled around the Bay of Quinte.

The subject of this sketch was educated primarily at the High school of Napanee, and subsequently (1879) entered the Victoria College, Cobourg, where, by close assiduity to his studies, he carried off the gold medal in natural science, and graduated with high honours as B.A., in 1883. From January, 1885, to January, 1886, he held the positive of Study in Chemistry and mineralogy at Victoria University. He later took a stort course in the clemical laboratory of Harvard, unden Dr. Richards.

In June, 1886, he received the appointment of professor of chemistry at the ment of professor of chemistry at the

Richards.

In June, 1886, he received the appointment of professor of chemistry at the agricultural College, Guelnhapostion, it is needless to say, he most efficiently filled, his lectures being always listened to by the pupils with the greatest attention, owing, doubless, to the clear manner in which the professor illustrated the truths of chemistry and their practical application to scientific farming.

In 1891 the Hon. Mr. Dryden, Minister of Agriculture, who ever keeps a watchful eye on the college and experimental farm at Guelph, promoted Freessor James to the responsible position he now occupies as Deputy Minister; the important duties of which, requiring incessant and watchful supervision, the clear-headed Minister was aware could be safely entrusted to him.

CHAS, H. RUST City Engineer

City Engineer,
Was born at Great Waltham, Essex
county, England, 25th December, 1852,
and was educated at the Brentwood
Grammar school in that county. In
1872 the family emigrated to Canada.
His father, the late Henry Rust, Esq.,
purchased a farm in York township,
near Toronto, which he cultivated, and
on which the family resided for several years; he, however, subsequently
retired, and removed to the city,
where he died at the ripe age of 86,
on the 13th of September, 1891, universally respected.

where he died at the ripe age of 86, on the 13th of September, 1851, universally respected.

His son, Charles H., assisted on the farm until 1877, when he came to Toronto and commenced the study of his profession with the late Frank Shanly, then City Engineer. Four years later he was appointed one of the assistant engineers by Mr. Brough, then head of the department, and in 1885 by Mr. Sproat, his successor, was promoted to the full charge of the city's sewerage. On the resignation of the acting City Engineer, Mr. Cunningham, Council appointed Mr. Rust acting City Engineer. Mr. Cunningham, Council appointed Mr. Rust acting City Engineer. Mr. Cunningham, Council appointed Mr. Rust acting City Engineer. Mr. Cunningham, Council appointed Mr. Rust to the position of Deputy.

His ability as a civil engineer and is care in supervision is readily gleaned from the con, plete and thorough manner all work has been finished under his charge and the entire satisfaction he has given to the several chiefs under whom he has been finished under his charge as eventeen years. On the resignation of Mr. Keating, Mr. Rust received his promotion as City Engineen.

As a private citizen he is greatly es-

Engineen.

As a private citizen he is greatly esteemed; is president of Prospect Park
Bowling Club; a member of St. Andrews, No. 16, A.F. and A.M., G.R.C.;
of St. George's Society; the Canadian
Institute; the Albany Club, and of the
Canadian Society of Civil Engineers
since 187.

since 1887. In 1879, Mr. Rust married Alloed daughter of J. Preston, Esq., of York township, by whom he has two sons and three daughters, all of whom hare old enough are still at school and college. d Alice

Members of the Legislative Assembly of Ontario.

ROBERT A. CAMPBELL, M.P.P. Benfrew S.R.

Was born in Lochiel Township, Glen-garry Caunty, Ontario, 10th March, 1853. His father, the late Robert Camp-bell, Esq., M. P., early in this cen-tury came to Canada with his parents from Argyleshire, Scotland, who pur-chased land and settled in the above township.

chased land and settled in the above township.

Wing to the death of his father, with the second of the family age with the reponsibility and early age with the reponsibility and early age with the reponsibility and the second of him throughout life, he successfully accomplished, engaging in the timber outsiness; was for eighteen years the trusted agent of the late Mr. Egan, and afterwards had charge of that vast estate for some years, until he commenced operations on his own account, principally on the Bonnechere, a tributery of the Ottawa river, acquiring not only wealth, but what is still more to be prized, the lasting esteem of all who knew him.

In 1878 he was nominated by the Liberal party for the Commons, to reduce the tendency, but was unpuccessful and the common of the commo

family homestead, and on the conclusion of his studies Joined his father as partner in the lumber business, in which he has been engaged ever since. In 18-be, in partnership with Alex. As well as the content of the c

HENRY BARR, Ex-M.P.P. For North Riding Renfrew.

HENRY BARR, Ex.M.P.P.

For North Riding Renfrew.

Henry Barr, ex-M.P.P. for North Ridding of Renfrew, was to the family homested. Township of Henry County Renfrew, Ont. His father, the late David Barr, came to Canada in 1833 and purchased two hundred acres of primeval forest in the above township, which he brought to a high state of cultivation. He died in 1896, deeply mourned, greatly esteemed. His wife, the mother of the above township, which he brought to a high state of cultivation. He died in 1896, deeply mourned, greatly esteemed. His wife, the mother of the subject of these notes, was a daughter of an officer in the British army, who can be compared to the subject of these notes, was a daughter of an officer in the British army, who can be compared to the subject of the property of the subject of the property of

THE CANADIAN MINER'S LUCK.

Canada's certainty of future supremacy among the nations of the world is every year becoming more and more apparent to the tought of the world statement of all countries. Its self-reduced the property of the self-reduced to the self-reduced the self-reduced to the self-reduced to the self-reduced the self-reduced to the self-reduced the

less ages, there is more wealth a thou-sand times than the world ever dreamt of, and only of recent years has the faintest idea of this almost incredulous storehouse of midd wealth become manifest. But the store of the sum-many of the grimated quantity and quality the Damping would results a manifest. To give but a brief summary of the estimated quantity and quality of the minerals aiready discovered in the Dominion would require a resources, varied in character covering nearly the entire list of economic minerals, are of almost limitless extent and value. Exploration, with the present, been ential superficial, and the prospector of a few localities, may preficial, and the prospector him. It is to the Huronian system of rocks that the Huronian system of the State state of these rocks of greater or less extent overlie the Laurentian formation all the way from the Quebec to the Manifolds boundary of the Province, passing north of Lake Superior, and westward along the United States so the Great Huronian Bell, state into Quebec, a distance of 100 miles. Of the mineral structure of the Hudson Saminian has been limited to what has been seen along the rivers, and it is doubtful if any white man has ever crossed it from east to west, north of the 49th parallel. Experts acquainted with the mining camps of the world regions of Ontario surpass those tent.

The most extensive deposits of nickel-

tent.

The most extensive deposits of nickelbearing ore in the world are found
north of Lake Huron in the Algomadistrict, and cover an area.

2,000 square miles.

The deposits may be magined when it
is stated that one in sight could
over the ten the state of the core than three times as much freight
as all the railways, not of Ontario
alone, but of the whole of Canada,
have carried since the first locomotive
began to run. to run

The ores of iron occur in Ontario in

began to run.
The ores of iron occur in Ontario in great abundance. In the Eastern part of the province there are large bodies of magnetic iron, of hematite and imonite, and red and brown iron ores. North of Lake Superior hematite exists in large quantities.

Iron ore has been found in manuptian formations, but the largest and most valuable deposits are undoubtedly the hematites of the Mattawan iron range, and the magnetites of the Atik-okan, to the west of Lake Superior. These ranges are supposed to form a continuation of the wonderful minnesota deposits, which now lead the world in production, the world in production, the world in the production of the wonderful more than the state of the continuation of the wonderful more than that State. These majors and millions of tons could be quarried at a very low cost, while the supply is simply lnexhaustible.

But why go on enumerating our

cond be quarried at a very low cost, while the supply is simply inexhaustile.

But why go on enumerating our latent riches, when we are told by the official reports that, valuable as the expension of the present time they are until the present time they are until the present time they are with the present time they are with the present time they are with the present time they are the covered to the United States to be smelted, and pay a heavy duty besides the carriege. It has only been during the past three years hat Canada has had a smelting works; which are situated at Hamilton, and which turn out 200 tons of pig iron daily, smelted by American coke. Such is the dormant state, not of Ontario alone, but of the whole Dominion of the GREAT MINING INTERESTS OF CANADA, in vain the prospector, the miner, the way out of the difficults of compressions of the companies of the new discovery, and orders for maintain of the control of the company of Toronto, while soots of letters of enquiry arrive by every mail.

IN MEMORIAM William Ewart Gladsto

By E. H. DEWART, D.D.

A mighty nation mourns her greatest son, a bore the torch of progress in

the van, Leader of men, thy great life-work is done-Reformer, Patriot, Sage, and Friend

of Man! Not only Britain mourns; from every

Not only Bream moders, from every land
There come sad tones of blended grief and praise,
For him who with unqualling heart and hand
Stood for the right through all his lengthened days:
A giant oak among the forest trees,
Strong to resist the flercest storms that blow—

that blow—
eagle soaring till the sun he sees,
nd herald's brighter day to earth

below.

Not on the gory fields of martial fame
His manful deeds of chivalry were

wrought; glory that surrounds his deathwrought;
The glory that surrounds his death-less name
Was won by battles in the realms
of thought.
A man of peace, he life-long war main-

tained
That justice might oppressive wrongs

displace; The triumphs which his knightly valor gained
Were all to bless his country and his

race.
To freedom's Land of Promise, rich
and fair,
With peerless eloquence of tongue and

pen,
Through seas of hate and deserts of
despair,
He made a pathway for the sons of

men.

His words were swords, which cut the Gordian knots

Of partial laws that long held dire control; But greater than his potent words and

thoughts human sympathy that filled his soul. Enthroned in lofty place of power and

fame, On that high stage he played a noble

part; To-day the voices of the world pro-

roday the votes of all of the colaim, his highest place was in the people's heart.

By faith in God the power to him was

By fasth in God the power to nim was given.
To move right on, nor swerve for friend or foe;
He even brought the light and strength of hew ven.
To do the work of earth for men below.
There's nothing in the starry heavens above.

above, Nor earth beneath in all her summer glory, More beautiful than manhood, truth,

s beautiful than mannood, truth, and love, rought out and carved in deed and living story.

name of Gladstone shall forever shed

A guiding light on the high path he

trod—
A grand heroic soul in heart and head—
True to himself, his country, and his
God.

WILLIAM SIMMONS

Was born in London. England, 4th of June, 1827. After school days commenced to learn the trade of a carpenter, but at the age of seventeen joined the British navy as a first-class boy, where he rose to the rank of a first-class petty officer, and was on the receipt of his last promotion, as his parchment commission corroborates, the youngest petty officer in her Majesty's navy. His first ship was the fifty-gun frigate Nankin (Capt, Hon. Sir Keith Stewart), which was ordered to join the fleet in Chinese waters under Admiral Sterling; shortly after their arrival he volunteered into the Hornet, a "corvette" of seventeen guns, under Capt. Chas. Forestein gus, under Capt. Chas. Forestein the man-oidered, in company with the man-oidered, in company with the man-oidered, in company of the first of the contract of the consecution of the first of the contract of the contract

hai to the British fleet under Admiral Seymour, when the first news reach-ed it that peace had been proclaimed in 1856.

hai to the British fleet under Admiral Seymour, when the first news reached it that peace had been proclaimed in 1856.

Shortly after war broke out in China, and the Hornet was in the hottest of the fight, being engaged in no less than three scneral flank and almost cease-less boat engagements with the enemy where Mr. Simmons was conspicuous for his daring bravery, and for washing the took par in the taking of the Bogun Tikas Pekin, the blockad-flow of the Chinese insurrections, taking several cities and laying waste the surreunding country to protect the inhabitants until the Imperial troops regained the supremacy. While serving in the Hornet they captured and destroyed seventeen piratical juks. For the invincible bravery of the crew of this gailant corvette, four commanders of her in five years were made post captains, and the subject of these notes received the Chinese war medal with two bars, Fatcham and Canton. He was wounded at the storming of the city of Keairdin. After the war was over he returned the storming of the city of Keairdin. After the war was over he returned to all him from his sets of the part of the latter, wm. John is employed as a skilled brick-layer on Government work in Boston, Mass.; the younger, Charles Frederick, is with his father learning the building and carpenter trade to which Mr. Simmons returned in 1865.

In 1871 he emigrated to which Mr. Simmons returned in 1865.

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TOPONTOS PAVEMENTS.

The tens of thousands of strangers who have visited the Queen City this year and admired its stately churches; tis megnificent universit'es, its costly public buildings, and the beauty help a stranger of the stranger of th

west, from St. Patrick's Market to Teraulay; in front of the new civic tuildings; Lombard street, south side, Victoria to Church; over fifteen miles of pavements had been laid by him previous to the work done in 1898. Mr. Gardner has several times been approached by officials of other cities at a distance, with tempting offers to leave Toronto and come and work to them, but has always refused. Only a short time since an official from the street work here, offered to desire the former of the present tusiness of the street of the present tusiness of the present tusiness of the street of the present tusiness of the presen

BARRIE FOTES

MAJOR SMITH

Station Agent of Barrie and Allandale,

Was born at Bourne, Lincolnshire, England, where his late father was a farmer of the Fens of Lincolnshire. His son, the subject of this sketch, after school days joined the 30th Regiment and with it came to Carada from England at the time of the Trunt affair, when war appeared imminent with the United States, and was stationed two years in Toronto and three years in Montreal.

When he was on the point of leaving the army, and all his papers had been excuted, the Fenian Raid of 1866 occurred, and he requested and was permitted to remain with his regiment which went to the front. After this he was, on leaving the army, engaged as a porter in the Toronto sheds of the Northern railway, and shortly afterwards was transfered to Angus, Ont. Subsequently he rose step by step to be station agent at Sunnidale (which was destroyed by bush fires), then night yardman at Collingwood; later, agent at New Lowell, Gilford, and in 1870 was appointed agent at Aurora.

later, agent at New Lowell, Gilford, and in 1870 was appointed agent, at Aurora.

Early in the spring of '55, when the second Riel rebellion broke out, Major Smith, then in command of No. 7 Company of the York Rangers, Simcoe Battallon, under Col. W. E. O'Brien, was granted permission by the railroad authorities to leave with his company, receiving on his return the

Battalion, under Col. W. E. O'Brien, was granted permission by the raft-road authorities to leave with his company, receiving on his return the medal granted by Her Majesty the Queen, and was promoted by the rali-way company to be agent at Barrie, which station he took charge of in August of that year.

On March 1, 1877, still unore onerous duties were imposed by his appointment to the joint agency of bo'h Barrie and Allandale, the duties of which it is hardly necessary to say are more efficiently performed.

As a private citteen Molor Smith has been for many years identified with several benevolent societies. In the Masonic order he has the unique history of first having years identified with several benevolent societies. In the Masonic order he has the unique history of first having years identified with several benevolent societies. In the Masonic order he has the unique history of first having years identified with several benevolent societies. In the Masonic order he has the unique history of direct has the unique history of first having years identified with several benevolent societies. In the Masonic order he has the unique history of the history of