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"Rich in good works."

"The Perfected American Watch," an illustrated book of interesting information about watches, will be sent free upon request.

American Waltham Watch Company,
Waltham, Mass.

TO-LET.

FOUR GOOD FURNISHED ROOMS, WITH OR WITHOUT BOARD, 101 Queen street.

FOUR GOOD FURNISHED ROOMS, WITH BOARD, WITH ALL MODERN CONVENiences, AT 191 University Avenue.

43 KING STREET, WEST, BEAUTIFULLY situated, facing the Harbor. Rent \$24 and taxes. Apply to Kirkpatrick, Rogers & Nickle.

HOUSE, 7 ROOMS, NO. 56 BAY STREET between Bagot and Rideau streets; also stable and stable in rear. Apply to William street.

112 STUART STREET, 9 ROOMS, HOT water heating. Also other dwellings, stores and offices. J. S. R. McCann, 51 Brook St.

STORE OCCUPIED BY R. ALEXANDER, NO. 111 Brock street, with refrigerator, etc., for pork and meat trade. Apply to John McKay, Jr., 151 Brock street.

MONEY AND BUSINESS.

LIVERPOOL, LONDON AND GLOBE FIRE INSURANCE COMPANY. Available assets \$61,187,215. In addition to which the policy holders have for security the limited liability of all the stockholders of the said City Property insured at lowest possible rates. Before renewing old or giving new business get rates from STRANGE & STRANGE Agents.

MONEY TO LOAN IN LARGE OR SMALL at least rates of interest on city and farm property. Loans granted on city and county debentures. Apply to S. G. McILROY, manager of Frontenac Loan and Investment Company. Office opposite the Post Office.

TWO HUNDRED THOUSAND DOLLARS IN sums drawn on themselves to be paid in dollars. For particulars apply to GODWIN'S INSURANCE EMPORIUM over Express Office, Market Square.

ARCHITECTS.

WM. NEWLANDS, ARCHITECT, OFFICE second floor over Mahood's Drug Store, corner Princess and Bagot streets. Enclosed on Bagot street.

POWER & SON, ARCHITECTS, MERCHANTS' BANK BUILDING, corner Brock and Wellington streets. Phone 212.

ARTHUR ELLIS, ARCHITECT, OFFICE site of New Drill Hall, near corner of Queen and Montreal Streets.

HENRY P. SMITH, ARCHITECT, ETC., Anchor Building, Market Square. Phone 245.

UNDERTAKERS.

F. P. HARRISON CO., UNDERTAKERS, 283-285 Princess Street. Quality and efficiency the best. Prices the lowest. Phone-Warren 90. Night Calls-T. F. Harrison, 81.

S. S. CORBETT, FUNERAL DIRECTOR, 281 Princess Street, Kingston. Successor to W. M. Deasman.

PRICE 25 CENTS.

Carriages Carriages

EVERYBODY

Who has rubber tires on their carriages are well pleased with the ease and comfort they enjoy in driving, if you have not got them on your carriage you should send to LATURNEY and have them on and enjoy your drives.

JAMES LATURNEY,
CARRIAGE MAKER,
290 Princess St. - Kingston

DON'T WASTE MONEY

On poor, ill-flavored butter, when you can get a pound of the best Clarified Butter, sweet and finely flavored, for 25c. Try a pound and see how pleased you will be.

Clarified Milk Co.,
Phone 267, Brock & Bagot Sts.

DO NOT WASTE MONEY

Do you know that ROTOGRAF BROMIDE PAPER

Will give you different results than any other Bromide paper?

Send a doz. package for \$1.50 and prepay express charges.

Trv. It.

S. V. VISE, 513 QUEEN ST. W., TORONTO,

CANADIAN AGENT.

MAJORITY 1903

To the Electors of Kingston:

LADIES AND GENTLEMEN.—As a

vote for Mayor for 1903, I respectfully

ask that you will vote and consent to elect me.

C. J. GRAHAM

WEATHER STRIPS
FOR WINDOWS AND DOORS.

They not only keep out Jack Frost, but they will help you reduce your coal bill, protect you from drafts and therefore save many bad colds. Easily tacked on, wear well, and the cost is but a trifle.

STRACHAN'S HARDWARE.

INVESTMENTS

REAL ESTATE

Mining and Oil Stocks

See GEO. CLIFF,

115 BROCK STREET.

IN SPIRIT LAND

PRINCIPAL GRANT TALKS
THROUGH A MEDIUM

Says He Is Being Scorned By Other Spirits—His Attitude on The Prohibition Question,

Kingston, Dec. 4.—(To the Editor): There are some great men who are the greatest of ignoramus on some of the greatest questions in the world to-day; and Goldwin Smith is one of them when he calls spiritualism and theosophy "mere superstitions." Spiritualism is one of the oldest "superstitions" of which the human race knows anything about. It is the origin of the great religions of the earth, and without it Christianity never would have been founded nor perpetuated a life time after Christ lived. Take its phenomena out of the New Testament, and what would you have to convince you of immortal life or even existence for one minute after so-called death? If the world did not know that there was such spiritual phenomena, there would be small hope of Christianity existing another hundred years. Some of the most eminent divines in Christendom to-day are cognizant of this fact.

As for theosophy, it is older than Christianity, much of which teaching and philosophy are the same as Christianity and spiritualism, and it is taught and believed in by a large section of the human family. I did not take "my side in hand" to defend either of these "cults." They need no defence before a reading, thinking and investigating people like the Anglo-Saxons. Time will justify these "mere superstitions" of the people, and they will live long ages after such a wise head as Goldwin Smith's has been forgotten among thinking men and women in this sphere of action." But I write to give you a message from Principal Grant on the question of the hour. He says automatically, or inspirationally, through a friend:

"You may think I am not interested in your present question of prohibition, but I am even more interested than when in earth life. I do not see that the proposed prohibitory law is right, but I do see where I made many mistakes in opposing such law in any way. For if some men say anything on any subject it is taken for law, when they may be much farther from the truth than the more ignorant man. Where I have found I was wrong was in favoring any law that allowed whiskey to be sold, for now my name is brought in when it should not be, and I am quoted as an authority. I meet with spirits every day who point their finger of scorn at me, saying, 'that man did more to make drunkenness than thousands of men can undo.' So you see my position is not pleasant nor very elevating, I say, do your best to do away with the whiskey traffic. Under any conditions it will take time and much work, but one step leads to something higher and better. We are out with a great army of spirits helping in this great cause. You could not understand how interested the great mass of spirits are in this fight for humanity, for we find in our travel through spirit land that the most of the misery comes through or from whiskey-drinking men and women led on to greater crime, which they would never have committed had their brain not been deadened by drink. So many of those spirits who were sent into this sphere in a drunken state go on with their cursed works, driving down into the dens and dark alleys of large cities, doing the most damnable things. Things the human mind could not conceive of without their aid and daring character, and their course is downward, bringing others with them. Spirits of that grade have never risen from the barn-room floor or the house of ill-fame, how little you people know of the miseries of part of the human race, not having any way to defend myself in this great question of prohibitory law, which is at the present time affecting the minds of so many great men and women, I have after a great struggle accomplished what I understood to get a medium to write for me. I have written through this medium before, shortly after my passing. I have been trying very hard to impress her to aid me in this great cause for good. I was many times misunderstood, but while in earth life, if I thought worth while, I could defend myself. But now the difficulty lies in getting mediums to work for us. Not but what they would do so, just like other great questions, the world is not ready for it. By it, I mean this great question of spirituality, but it is coming fast."

We are superstitious enough to believe that Principal Grant impressed the medium to write the above message, and while some of the language and composition may not be exactly as he would have used or produced, yet some of his expressions are apparent. Note where he introduces a sentence or phrase with that emphatic "but" he used to so often employ in debate. Language is only a vehicle of thought, and the medium gets the thought rather than the words, the spirit rather than the letter. I hope you will find space for this letter in the columns of your free and liberal paper, and let people think what they may of it. I can assure you that it is no conscious imposture, anyway. It is a further vindication of the noble principal, and ought to be an inspiration to temperance workers if they can believe they have the hosts of Heaven working in their cause. Yours for truth and sobriety. A STUDENT OF PSYCHIC PHENOMENA

Harrowsmith Heraldings

Harrowsmith, Dec. 2.—Friday evening a meeting was held in the town hall to discuss prohibition. J. S. Gallagher, M.P.P., was in the chair. The liquor act of 1902 was ably defended by Rev. Messrs. Craig, Brown, and Willoughby. Last Sabbath Rev. G. S. Milligan preached a stirring sermon on the same subject. Last Sabbath in the same church, Mr. Gibson preached in the columns of your free and liberal paper, and let people think what they may of it. I can assure you that it is no conscious imposture, anyway. It is a further vindication of the noble principal, and ought to be an inspiration to temperance workers if they can believe they have the hosts of Heaven working in their cause. Yours for truth and sobriety. A STUDENT OF PSYCHIC PHENOMENA

My Lungs

You forgot to buy a bottle

of Ayer's Cherry Pectoral

when your cold first came on, so you let it run along.

Even now, with all your hard

coughing, it will not disap-

point you.

J. T. WHITE

MAJORITY 1903

To the Electors of Kingston:

LADIES AND GENTLEMEN.—As a

vote for Mayor for 1903, I respectfully

ask that you will vote and consent to elect me.

J. H. BELL

SCIENCE JOTTINGS.

Bacteria Microbes in Soil Beneficial to the Farmer.

Many, perhaps, most people consider that microbes are connected only with disease, but this is far from being the case. Not only is the air filled with microbes, but water and the soil have their share of these minute forms of life.

There is an article in the Popular Science Monthly, for December, upon the subject of Nitrogen fixing Bacteria, which discusses the mode of existence and use of certain of these plants, that are so small that they need to be manifested by very powerful microscopic in order to make them visible.

The action of these bacteria, of which there are many different kinds, is of immense value to the farmer, and, therefore, to all of us. In order to make it plain in what way the farmer is affected by the growth of these tiny creatures, it may be well to consider what are the main constituents of the ordinary plant. There are five or six of the chemical elements most important: Carbon, which we know in the form of charcoal, oxygen and hydrogen; the constituents of water, nitrogen, which forms four-fifths of the atmosphere; phosphorus, a very important constituent in bone and sulphur. Probably potassium should be mentioned as well. Carbon, hydrogen and oxygen are readily taken by the plant from the air where the carbon in the form of carbonic acid, breathed out of every animal when living, as well as provided by the decay of all dead plants and animals. The soil usually contains enough sulphur in the form of sulphates, like gypsum, nitrogen, phosphorus and potassium need, in cases, except in new soils, to be provided, and all fertilizers contain one or more of these elements. Though nitrogen exists in the air, the plant cannot make any use of it. It cannot breathe it in or, perhaps, it would be more correct to say, that it cannot make any use of it when it does not breathe it in and nitrogen passes out from the plant unchanged, just as it is exhaled from our lungs in the same condition in which it was taken into them.

The only form in which nitrogen can be used by plants is said to be that of nitrates, such as saltpetre, which is potassium nitrate. A very important fertilizer is sodium nitrate (called chili saltpetre, because got in Chili). It is cheaper than potassium nitrate. But ammonia contains, nitrogen and does barnyard manure, and these are frequently employed instead of nitrate. Compounds of ammonia are used, chiefly the sulphate. But ammonia compounds and barnyard manure are only useful because certain bacteria change them into nitrates. The bacteria make use of the material provided, they grow at the expense of this material and in making use of it, change it in such a manner that it can be used by higher plants. There are a number of bacteria that take part in this process, probably there is no single species of bacteria that change the organic matter of a complex composition, such as is found in barnyard manure, into nitrates, one species carries on the operation for a certain distance and other species then take up the task. Some species of bacteria tend to destroy nitrates and send the nitrogen back into the air so it must not be supposed that all bacteria in the soil help in the growth of the higher plants.

As has been said, the higher plants cannot take nitrogen from the air, but some species of soil bacteria can do so and are called "nitrogen fixing bacteria." Some of these bacteria form in small lumps or nodules upon the roots of leguminous plants, that is, plants belonging to the pea family, such as peas, beans, vetches and clover. If these plants are provided with nitrogen, in the form of nitrates, they feed mainly upon that, but if no nitrogen is provided in the soil, yet if the roots have upon them the proper bacteria, nitrogen will be taken from the air. Each particular class of leguminous plants has particular species of bacteria most suitable for it; so that a ground sown with the bacteria suitable for vetches provides but poorly for the growth of clover.

It has long been known that raising a crop of clover and ploughing it under fertilizes the soil, but it is only very lately that the reason has been discovered.

There are some bacteria that can fix nitrogen in the soil without the aid of leguminous plants, so that a soil with no vegetation on it increases in nitrogen. These bacteria may be cultivated just as the microbes causing diphtheria or typhoid fever may be cultivated, and a German firm has been within the last three or four years placed upon the market a material made of some star-shaped substance mixed with bacteria of a particular species. The material is sold under the name of alnitil and it is claimed that it increases the growth of crops as much as forty per cent.

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In debate, the pulpits, the pulpit

and the pulpit