

APPETITE IS NOT SAME AS HUNGER

Scientist's Cigar-Shaped Balloon Shows Whether One Needs Food.

CLEANSING OF BLOOD

Apparatus Can Remove Red Fluid, Purify and Return It.

PHILADELPHIA, Dec. 30.—(Can. Press.)—An apparatus by which blood may be removed, cleansed of impurities and returned to the system, and a contrivance by which it can be determined whether one is suffering from hunger or merely has an appetite, were among the inventions demonstrated today by members of the Federation of American Societies for Experimental Biology, in annual session here. A dog was utilized to illustrate the blood purifying apparatus, which was the result of the work of Drs. J. J. Abel, L. G. Rowntree and B. B. Turner of Johns Hopkins University. Dr. A. J. Carlson of the University of Chicago demonstrated on himself the efficiency of the hunger testing machine, his own invention.

Hunger and Appetite.
Dr. Carlson defined hunger as a sensation which arises in the stomach, while appetite, he explained, is a nervous phenomenon of the brain. Swallowing a small cigar-shaped rubber balloon which had been fitted with long rubber tubes he inflated the balloon in his stomach thru the tubes and then attached the latter to sensitized paper. Hunger, he declared, caused the muscles of the stomach to wring the balloon and drive out the air which registered the amount of hunger on the sensitized paper.

Experiment on Rats.
While rats and mice were used in an experiment designed to illustrate the diffusion of the blood supply, eyes injected into their blood vessels circulated in a short time until the little animals changed the color of their flesh without much apparent discomfort. One rat was green to the end of his tail while even the film of his eyes was the color of an emerald. The others were similarly transformed by the use of red dye.

Election Cards.

IN THE INTERESTS OF Better Civic Government

Vote as Follows:

FOR ALDERMEN

- Ward 2—Ald. Wickert
- 3—F. S. Spence
- 4—Ald. Rawlinson
- 5—Ald. Wanless
- 6—R. H. Cameron
- 7—A. B. Farmer
- 8—R. W. Dockery
- 9—George Garrett
- 10—Walter Harland Smith

AND FOR BOARD OF EDUCATION

- Ward 1—Mrs. Courtney
- 2—William Houston
- 3—Miles Vokes
- 4—W. O. McTaggart

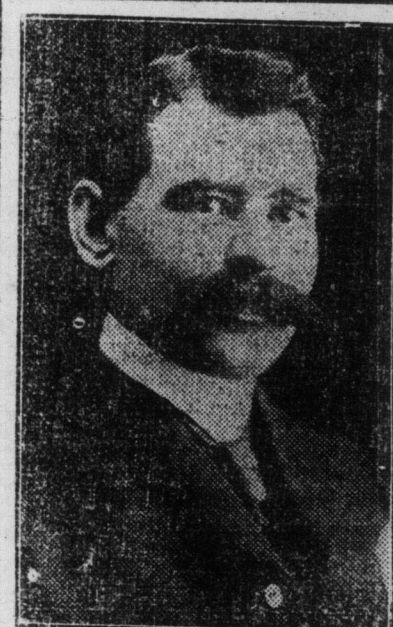
These are the candidates recommended by 1700 of Toronto's most progressive ratepayers.

PUT THIS LIST
IN YOUR POCKET UNTIL
JANUARY FIRST.

Municipal Improvement
Association.

JOHN MACDONALD,
President.

The most important duty of the citizens on the first day of January is to elect a Mayor who is competent to handle the city's business affairs, and to represent the people as their chief magistrate, and such a man is Hocken.



It is Time for a
Change
ELECT
Joseph E.
Thompson
For Controller

LATE COMMISSIONER OF INDUSTRIES FOR THE CITY OF TORONTO

Election Cards.



Ratepayers of WARD 7

If you want a candidate who will do things to make Ward 7 and the whole City of Toronto more worth while living in, vote and work for

Jesse G. Wright

For Alderman
1914

VOTE FOR



GEORGE
GARRETT
"The Hardware Man,"
FOR
ALDERMAN
WARD 5 - 1914

WARD 3 ELECTORS

will make their votes count for sound, strong, careful, progressive civic government, by marking their aldermanic ballots for F. S. SPENCE, the last name on the ballot paper.

Election Cards.



To the Electors of Toronto

Ladies and Gentlemen:

I ask your vote in favor of my re-election to the board of control for 1914. I confidently urge the record of my first year of service on the board of control as a reason for the continuance of the kind and generous support you have given me in the past. The work I have tried to do in extending and strengthening the kindly and helpful usefulness of the Industrial Farm is only in its beginning. The temporary building will soon open its doors and supply the aged and worthy poor with the shelter of an Old Folks' Home, without requiring the separation of husbands and wives who have grown old together and whose only crime is their poverty. The Old Folks' Home will have begun its work in a small way before the new year is far advanced. The Civic Abattoir is nearing completion, and I believe I have a work to do in making the abattoir a means of keeping down meat prices by keeping monopoly from getting complete control of the city's meat supply. If given an opportunity I believe I can be useful in promoting the growth and striving for the safety of the great and useful undertakings in which I am especially interested and to which I have given, and will give, special attention.

In the past I have opposed the fad of dividing up civic departments between controllers who are to exhibit the possibilities of the so-called cabinet system of municipal administration. The great hope of municipal government is in the strength of permanent heads of departments. The logical result of the cabinet system would be a demand for the payment of \$10,000 per annum to elected controllers who could pretend to do the work that should be done, and can be better done, by the permanent officials at the head of each department. The civic department must succeed or fail according to whether the permanent official at the head of the department is a success or a failure. So far as I am concerned I am prepared to stand or fall on the principle that a controller can best do his duty when he tries to put a strong man at the head of each department, gives that man a free hand, backs him up when he is right, leaves him to enjoy all the recognition he can earn without requiring him to share either his pay or his glory with an elective controller. My principle is that the permanent official should be the recognized and dominating head of every department and on that principle I am prepared to stand or fall. The street railway and electric light negotiations have made up much of this year's work, and I realize that the electors are entitled to know exactly where I stand. I am opposed to the purchase of the physical and intangible assets of the Mackenzie surface car lines at any price which has yet been mentioned. I am opposed to the purchase of the Toronto Electric Light system on any terms. At the outset of the negotiations I responded to the appeal of Hon. Adam Beck and fought for the insertion of the safeguards which Mr. Beck and his friends forced into the McNaughton bill. I supported Mayor Hocken in his efforts to secure information and I insisted that a Canadian expert, John W. Moyes, should be associated with the American expert, Bion J. Arnold. We have spent \$50,000 or \$60,000 in securing We cannot go on forever bringing more information and spending more time. The discussion so far, and the reports now available, supply sufficient information to convince me that the Mackenzie surface lines and the radial adjuncts are not worth \$22,000,000, and the Mackenzie electric system is not worth purchasing at any price. I believe that the harbor commission has proved itself a credit to the city in the origin and preparation for fulfillment of its plans for a harbor and water front worthy of Toronto. I believe that the harbor solution of the problem, with the creation of a \$15,000,000 debt, \$9,000,000 of which will be spent in wages, is preferable to the purchase solution, with the creation of a nearly \$30,000,000 debt, not a cent of which would be spent in wages. I am against the purchase of the Mackenzie surface and radial lines because that purchase would tie up the city's credit and impair the city's power to finance the creation of the radial entrance and rapid transit systems. I am a single fare advocate; as such I do not propose to go in debt over \$20,000,000 for the sake of loading the city up with the Mackenzie surface line and electric light incumbrances, to add nearly \$16,000,000 to that debt for extensions and then leave the Mackenzie interests free to fight us with our own money by creating a radial entrance and rapid transit system that will make Toronto a two fare city forever.

I am convinced that relief from the present intolerable situation can be given in a rational and businesslike way, and that the relief must be given promptly. The proposed purchase scheme does not give the radial control and radial entrance that Toronto must establish. If elected I intend to move that provision be made for the prompt inauguration of rapid transit railway communication between the central manufacturing districts of the city and the outlying residential districts east, west and north, at present unserved by the Toronto Railway system. I have tried to let you all know where I stand in relation to questions which I consider to be questions of life and death in the present and future of this city. Toronto is a city we are all laboring to make greater, and if elected I will try in the future, as I have tried in the past, to do my duty honestly, faithfully and fearlessly, irrespective of race, creed or circumstances.

Again asking your votes and support and wishing a Happy New Year to all, Believe me, ladies and gentlemen,
Yours faithfully,

JOHN O'NEILL

CONTROLLER.

WARD 4

A. R. WILLIAMSON
FOR ALDERMAN

Against buying obsolete plants
but out for Rapid Transit

BE SURE
...TO VOTE FOR...
SINGER
FOR ALDERMAN IN
WARD 4

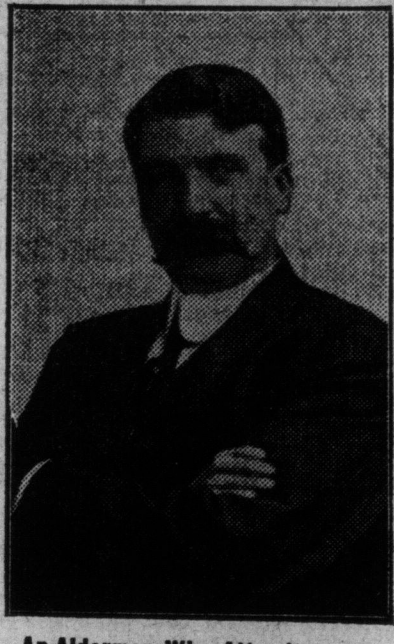
Election Cards.



RE-ELECT
C. A. RISK
For ALDERMAN WARD 2

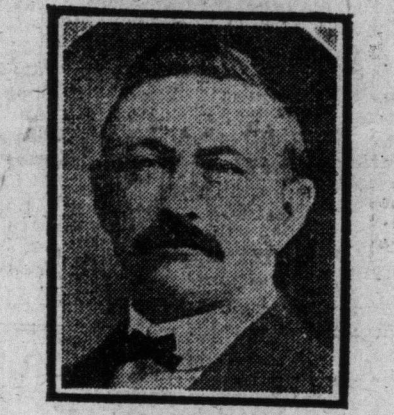
WARD SEVEN

Re-Elect
SAM RYDING



An Alderman Who Attends to the
Wants of His Constituents.

TO THE ELECTORS OF
WARD 3



SAM MCBRIDE

R. H. CAMERON
FOR
ALDERMAN
WARD 4
Requests Your Vote
Progress and Efficiency

Vote to Re-Elect
... Alderman ...

M. Rawlinson
For Ward 3
A Business Man for a
Business Ward

1914
WARD SIX

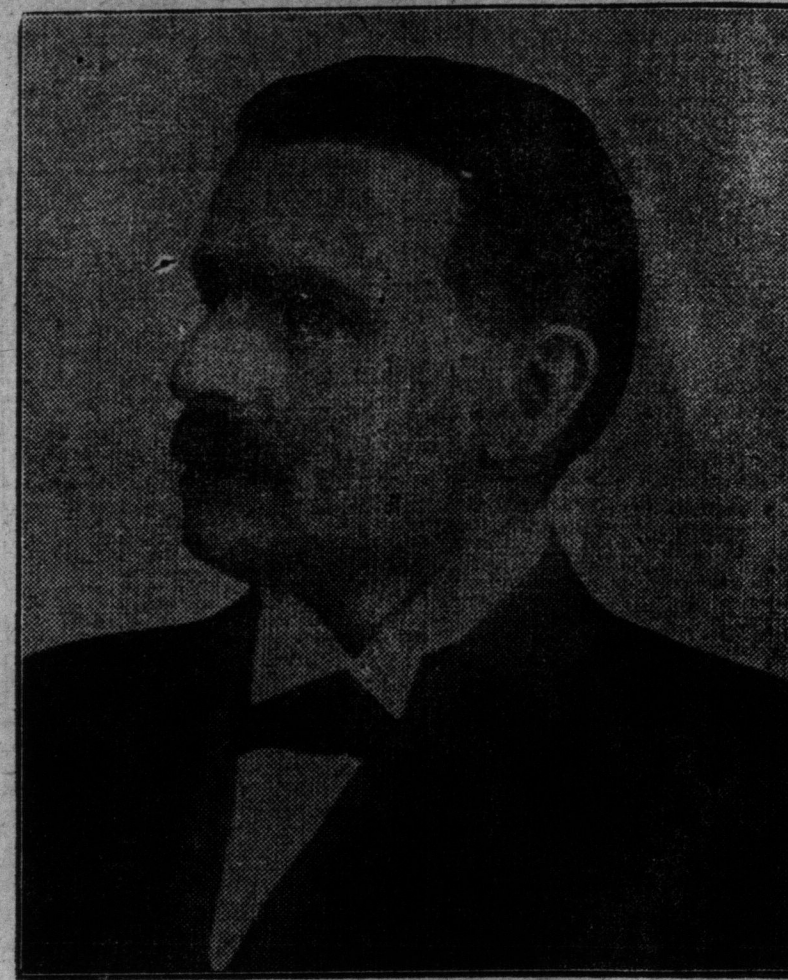
Your vote and influence are respectfully
solicited for the election as alderman of
WALTER HARLAND SMITH
a man of broad, constructive and executive
ability.

WARD 6
RE-ELECT
Ald. D. Spence

Election Cards.

Election Cards.

McCARTHY for CONTROLLER



Controller McCarthy was elected to the Treasury Board a year ago. At that time the city had failed to satisfactorily market its securities, had reached its limit of temporary borrowings, and there was much concern as to securing the necessary funds to carry on the work of the city. During 1913, a year of financial stress, the Treasury Board and the Acting Treasurer developed new markets for city securities, sold successfully on this continent and in England, provided for these temporary loans, provided funds for public works and local improvements and generally carried forward city work and business without interruption. The maintaining of the city's credit and the successful handling of its finances during the present year meant much to every businessman and workman in Toronto.

RE-ELECT McCARTHY FOR CONTROLLER

Electors of Ward Six

Vote to Elect

S. H. Hurst

... AS ...

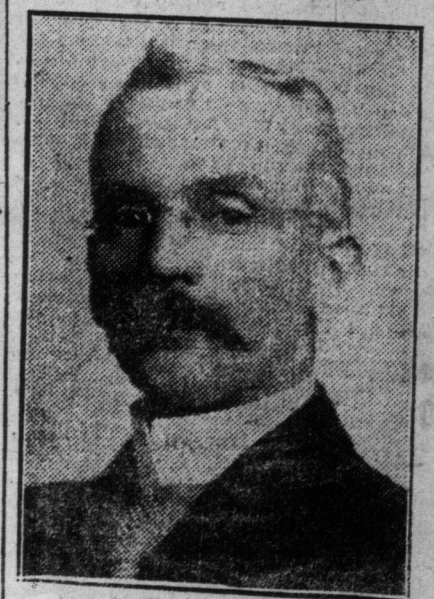
Alderman
For 1914

AIM--Better Transportation
for Toronto and Business
Methods at the City Hall.



Vote
Wanless
Safe -- Experienced -- Fearless

WARD
4



Ward 5

Your Assistance To Re-Elect

TRUSTEE W. O.

McTAGGART

B. A.

To the Board of Education
For 1914-1915

Will Be Appreciated

A Successful Business Man and an Ex-Teacher, Now
Chairman of the Board.

Vote For The
REFERENDUM
To Give
MARRIED WOMEN
THE BALLOT

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TRUSTEE

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