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## How to Run "Your Business" Illustrated by Rotarian Tom Berry at Club Meet Thursday

Rotarians and their guests, Lou Thibaudeau, Wilson Henry and Gordon Fleming of Owen Sound, were entertained and edited by Tom Berry's Classification speech at their regular Thursday luncheon. As a classification talk is supposed to deal with the speaker's own line of business, the Club was rather mystified by the topic announced for the evening. The introduction, however, soon clarified the situation.

"Your business, the electric system which is owned by you, as represented by the district of Eugenia, comprises nearly 6000 square miles. It consists of the Counties of Grey, Bruce and portions of Huron, Wellington, Dufferin and Simcoe. In short, the northerly and westerly limits could be described as the shores of Lake Huron and Georgian Bay, and the southerly limits, a line through Orangeville, Arthur and Wingham. The easterly limits are fixed by a line from Collingwood to Shelburne and Orangeville.

"In this district we supply electric service to some 60 villages and towns. In order to do this we have five Generating Stations, two Frequency Changer Stations and 27 distribution sub-stations. We have something over 14,000 wood poles carrying about 600 miles of circuit. Of this, 55 miles is 110,000 volt circuit; 70 miles is 38,000 volts; the remainder being at 26,400, 22,000, 8,000, 4,000 and 2300 volts. There are about 1500 rural customers in the district.

"Our main generating station is one with which you are more or less familiar, namely, Eugenia Power House. This plant is unique in that it operates at a much higher head than any other plant in Ontario and there are not more than one or two in Canada which equal it. The water supplying this plant is from the Beaver River which in a sense is not more than an ordinary creek. It has a drainage area of about 72 square miles. By damming this river in several places, the engineers created a reservoir of about 1700 acres, with a capacity of about 800 million cubic feet of water. This reservoir leads to a forebay and headworks which connect to two pipe lines about 46 and 50 inches in diameter and about 5,000 feet long. These pipe lines have gates at the headworks which are motor driven and controlled from the power house and which can be used in emergencies. The first 3,300 feet of these pipes are wood stave construction, and enter into a surge tank approximately 120 feet high. From the surge tank steel pipe drops sharply over the cliff into the Beaver Valley, the steel wall of the pipe becoming thicker as the pressure increases. The total drop is 550 feet, which gives about 240 lbs. pressure per square inch on the scroll case of the turbine. These two pipe lines connect to three turbines which have suitable valves ahead of each machine. Two of the turbines were made in Switzerland and have a capacity of 2,000 H.P. each. The third was made in United States and has a capacity of 4,000 H.P. The normal speed of the two smaller machines is 900 revolutions per minute, which at full capacity requires about 45 cubic feet of water per second. The 4,000 H.P. unit has a normal speed of 720 revolutions per minute and uses about 100 cubic feet per second. These turbines are directly connected to generators of like capacity and they are wound for 4,000 volts across phases. The voltage is then stepped up to 22,000 volts for the major part of our distribution, but the villages within a radius of about 10 miles from the plant are fed directly from the generator bus.

"This description is of only the general features of the plant. You will find current transformers, potential transformers, voltage regulators, governors, relays, etc., which are indispensable, but whose description would require exhaustive detail.

At this point the speaker illustrated the ingenuity of the engineers who constructed the plant at Eugenia. When the many sections of steel pipe had been rivetted into one length and set in position on the side of the cliff the whole line suddenly slipped. There were no derricks to get it back into position. But after a little thought a way was devised by which nature should do the work. The pipe was blocked to prevent further slipping. During the night the pipe contracted with the drop in temperature; the heat of the day caused its expansion. By blocking the lower end firmly after each contraction, the whole pipe was forced to crawl back up the hill into position.

The speaker proceeded from his

description of the Eugenia plant to a general survey of the district, and a brief explanation of the operation of the system.

"In addition to the Eugenia Generating station, we have small water wheel plants at Walkerton, Hanover, Southampton and Sauble. Walkerton is capable of turning out about 500 H.P. and Hanover about 400 H.P. The little plant at Hanover is rather unique in that it runs without an operator in constant attendance. It is started up in the morning and allowed to run all day, and is shut down about midnight. A system of relays and alarm bells which are beyond the scope of this talk, give an indication when anything unusual has occurred. The plants at Southampton and Sauble were taken over with the assets of the Foshay Co. and are not capable of being operated at the present time.

"In addition to these, we have two Frequency Changer Stations. As you know, this part of Ontario is 60 cycles, and lower Ontario is 25 cycles. The only feasible way of transforming this is by means of a motor connected to a generator. Consequently at Hanover, we have a 12,000 H.P. motor, borrowing 25 cycle current to drive a 10,000 H.P. generator. At Mount Forest there is a stand-by, a 1500 H.P. motor which drives a 1200 H.P. generator."

The attention of the audience was now directed to a panel about five feet square, which was set up against one wall of the room. On it the power lines of the Eugenia district were marked by white lines. A group of switches near the centre of the district indicated the Eugenia plant. Along the lines, which bristled with other switches, glowed small white lamps. Tom proceeded to demonstrate how trouble in any district might be located by means of closing various combinations of switches and finally isolating the group of lights about the "out". He then showed how power may be supplied by various circuits from other parts of the district, as he continued with his explanation.

"Before you is a Pilot Board of the Eugenia District, which shows vividly the extent of the district. Each wire on this board represents a complete three-phase circuit, and, of course, the diagram is not intended to be drawn to scale, not to be a geographical layout. Every main switch is shown and the lights indicate what stations and lines are alive or dead when certain switches are opened or closed. This board is kept at the Eugenia plant where the operators are able to visualize quickly and correctly the conditions under every possible circumstance. You will see that it is possible, from the following demonstration, to accomplish hundreds of different combinations. It is also possible for any operator to do thousands of dollars' damage, or kill a number of men by a false move. The board is of untold value in training a new operator, in that he can practice switching and become thoroughly familiar with such work, without doing any damage. The switches indicated here are located at the places named.

"In this district we are rather proud of our record of freedom from interruptions to service. In 1935 the service was 99.964% perfect, and in 1936 it was 99.981%. By that I mean that emergency interruptions occurred so seldom, that we had a record of continuous service for 99.981% of the time. Of course, it is necessary on occasions to interrupt service for normal repair work, but the time is always arranged with the local authorities and their wishes are respected as to the time of the interruption. I might point out that during 1936 and 1937 the village of Markdale service was interrupted for only one minute, with the exception of time for which prior arrangements had been made."

The Hydro has a staff of thirty-five members located at strategic points throughout the district. On behalf of his staff Tom invited the Club and its friends to visit the plant at Eugenia and to inspect the lines in this vicinity when he can give a more practical demonstration of the operation of "your Business."

Many cars are being overhauled these days—by the traffic officers.

## Presentation to Rev. T. O. and Mrs. Miller

Rev. T. O. Miller, B.A., minister of Cooke's Presbyterian Church in Markdale since January 1931, and Mrs. Miller are moving to Orangeville this week. Mr. Miller has proved to be an able pastor and to his departure leaves many sincere friends; not only in the Presbyterian Church, but among the other citizens of the village, who regret his removal. On Monday evening of this week the teachers and officers of the Sunday School since 1931, along with the girls of Mrs. Miller's Sunday School class met at the manse to bid them farewell. During the social evening Mr. and Mrs. Miller were presented with a purse of money. The superintendent of the Sunday School, Mr. W. J. Messenger, in speaking on behalf of the gift which was presented by Miss Shirley Semple, stated that the Sunday School was indeed sorry to lose Mr. and Mrs. Miller, who had given such fine leadership to it and that he was sure the benefits of the lessons taught boys and girls by them would remain fixed in their memory. Mr. Miller, in replying, after thanking those present for the gift, mentioned that as the work of the Sunday School was the foundation of the Church, he had always found profit and pleasure in this, the most important phase of the Church's task. He complimented those engaged so faithfully Sunday by Sunday giving liberally of their time, talents and money in order to further the spread of Christ's kingdom on earth. The social evening closed with a delicious lunch, after which those present wished Mr. and Mrs. Miller many years of health and prosperity in their new home.

## New Minister for Markdale Presbyterian Church

The Presbytery of Orangeville at its last meeting agreed to secure, if possible, a young graduate to take charge of Markdale, Priceville and Swinton Park. The Home Mission Committee has agreed to appoint Mr. Joseph Taylor, an ordained missionary after he is licensed and ordained. This will be done on the 14th of April. However, as Mr. Taylor's College studies are finished on the 2nd of April, he will be in charge of the pulpit from Sabbath first, the 3rd of April.

Mr. Taylor was born in Manchester, England, and very early in life he came with his parents to Toronto. His education has all been received in this country, in Ryerson Public School, Harbour C.I., Toronto Bible College, McMaster University and Knox College.

Mr. Taylor has had excellent training for the work of the ministry in the mission field of the Presbyterian Church in Canada, having served with much commendation in the Maritimes, Saskatchewan, British Columbia and in Toronto.

Mr. Taylor is married and his wife has also had excellent training, being a graduate of the Toronto Bible School.

About the middle of May Mr. and Mrs. Taylor expect to take up residence in the Manse at Markdale.

## Grey County Club Is Active In Detroit, Mich.

Former residents of Grey County and adjoining communities are holding an informal party at McColester Hall, corner of Cass and Forest Avenues, Detroit, on Tuesday evening, April 19th, 1938.

This party is for the purpose of bringing together in good fellowship former Grey County residents now living in Detroit and the neighboring municipalities. Come and renew old acquaintances; meet new friends and enjoy a pleasant evening. Good music; entertainment; refreshments. Admission 50 cents. Send names of those to whom you wish invitations sent to H. C. Lamb, 808 Murphy Building, Highland Park, Michigan.

Your friends are cordially invited.

Mrs. A. N. St. John and daughter, Miss Judith St. John, of Toronto (formerly of this place), intend to leave early in May for a trip to Ireland.

Play, "When Sally comes to town," auspices St. Mark's Guild, Town Hall, Holland Centre, Monday, April 18th, 8 p.m. Lunch served. Admission 25c and 15c.

## Mrs. Robert English Passed Away on Tuesday

Mrs. Robert English, a highly esteemed resident of Glenelg, passed away at her home on Con. 15 on Tuesday, following a few days' illness. She was in her 57th year. The funeral is being held this Thursday afternoon to Markdale Cemetery. A full obituary notice will appear next week.

## License Ready for a Local Creamery

(The Flesherston Advance)  
A license has been issued by the government for a creamery in Flesherston, and the license has been offered to Messrs. Borinsky and Rapp of the Markdale and Dundalk creameries. These gentlemen have been investigating conditions and are inclined to look favorably on it. Both men have been examining the three-story building owned by Mrs. J. A. Heard, formerly used as a wagon and blacksmith shop, in which they have secured an option. The idea is to renovate the building and make of it a pasteurization plant where the milk can be pasteurized for both the Markdale and Dundalk plants. There has also been some talk of adding a turnip-waxing plant which is a comparatively new industry in Canada. The gentlemen interested are owners of a lot on Collingwood street and last year drew gravel to build a creamery, but this has been held up and if the Heard property is acquired it will probably not be necessary to build. The whole question is now under discussion and will not be settled for a few days. However, if Messrs. Rapp and Borinsky do not care to take up their license it will not doubt be offered to someone else. The village is pretty sure to have its creamery this spring, and the Advance would certainly welcome Messrs. Borinsky and Rapp as owners of the plant. Both are enterprising business men and good citizens.

## Public School Literary Society Debate Tuesday

On Tuesday afternoon, March 29th the Literary Society of Grades V and VIII of the local Public School met in their classroom with Keith Gemmel as chairman and Clarence McCullough as secretary. A debate, "Resolved that more knowledge is acquired from reading than from travelling," was the principal feature of the programme. Upholding the affirmative side were Shirley Rapp and Nettie Stewart, while the negative consisted of Elizabeth Stewart and Mazie Bussey. Miss McLoughry and her pupils from Form III, along with Miss Lang of the High School staff, were guests. Miss Lang acted as judge and commended the speakers on the preparation they must have made in order to deliver their material in the fine manner they presented it. She also gave the debaters some very helpful criticism showing where they might have improved their arguments, and in closing stated that the negative side was the winning side by a few points.

## Anglican Church Notes

Rev. C. O. Pherrill, B.A., B.D.  
Christ Church, Markdale  
10 a.m.—Sunday School.  
11 a.m.—"Fifth Word from the Cross."  
7 p.m.—"Miscellaneous Beauties."  
Thursday, April 7th, 7.30 p.m., Mid-week Lenten Service: "Gospel Pictures" V.  
St. Matthias' Church, Berkeley  
3 p.m.—"Fifth Word from the Cross."  
The regular monthly meeting of the Berkeley Ladies' Guild will be held, D.V., at the home of Mrs. Abe Hannah on Thursday afternoon, April 7th.

## Gospel Workers' Church

Rev. A. Mills, Minister  
Markdale Church  
10 a.m.—Sunday School.  
11 a.m.—Service.  
7.30 p.m.—Service in charge of Mr. Roy L. Langford.  
Tuesday and Thursday evenings Cottage prayer meetings.  
Friday at 8 p.m.—Young People's meeting in the Church.  
Williamford Church  
11 a.m.—Sunday School.  
7.30 p.m.—Service.  
Cottage prayer meeting Tuesday evening.  
BUY AT HOME.

## Locals Defeat Mt. Brydges at London on Wednesday

### SECOND GAME AT KITCHENER SATURDAY AFTERNOON AT 3 O'CLOCK

At the London arena Wednesday night the Markdale Red Men defeated the fast Mt. Brydges aggregation by a score of 4 to 3. Geo. Dundas, Markdale's goal tender, deserves a great deal of the credit for the win as without doubt he saved the locals from defeat in the initial period. It was the first time the locals had played on artificial ice and it took them some time to get going properly on it. Mt. Brydges, who won the championship of the Middlesex local league on this ice, were right at home in the rink and thus had considerable advantage, particularly in the first two periods. The locals had the edge on the Mountaineers in the third frame and set the pace which was too fast for their opponents.

In the initial frame Markdale got the only counter. Hartley worked his way down the right boards, beat the defence and slammed a hot one into the net. Markdale boys got in on several occasions but were unable to net the puck. During this period the fast skating forwards of the Middlesex champs, beat the local defence but were unable to get the puck by Dundas. Adams got the only penalty, for tripping, in this period.

The second period gave the Mt. Brydges all their counters and made it look bad for the locals. They got two in a row early in this frame. Noble evened the count when he transferred York's pass to the twine behind the goal tender. Mt. Brydges got another and the score was 3-2 when the gong sounded. Two Mt. Brydges players and Freeman of the locals served time for tripping.

The final spasm was all Markdale's and two well-earned goals put them up one in the game. Tuck Berry worked his way in on the right wing, drew the defence out of position and then passed to Freeman who sank the puck deep into the twine. Adams took another rest for tripping. Berry repeated his performance of a few minutes previous and this time Noble got a sweet goal when Tuck gave him the pass. This proved to be the winning goal. The steller defenceman of the Mt. Brydges team was given a penalty for tripping and showed poor sportsmanship in slamming his stick on the ice in protest. He got away with tripping during the entire game and when finally caught by the referee was loath to take his penalty. The Markdale lads were all going strong at the finish and had their opponents played off their feet.

About a dozen supporters went along with the team and they were strengthened by Mr. Earl Lever, a former Markdale boy, Mrs. Lever and their son of London; Messrs. W. W. Armstrong and Phil Kelley of Goderich; Mr. Jos. Hood, formerly of Markdale but now in London. The Parkhill contingent, consisting of several players and supporters, gave Markdale the glad hand and encouraged them during the progress of the game. They are a good bunch of sports and Markdale boys appreciate their gesture of goodwill.

Markdale players started as follows: Goal, G. Dundas; defence, E. Freeman and B. Johnston; centre, A. Noble; wings, H. York and N. Hartley; subs, B. Adams, T. Berry, H. Winterburn, R. Singleton, Mitt. Burnside.

Mt. Brydges—Goal, Rushby; defence, Campbell and Ringrose; centre, Mathewson; wings, Lewis and Haggerty; subs, Pardy, Gregg, Jernain.

The second game will be played in Kitchener on Saturday afternoon commencing at 3 o'clock. Arrangements for the third and final game, if necessary, will be made later.

## IN MEMORIAM

BROWN—In loving memory of our dear father, James Brown of Holland Township, who passed away April 2nd, 1934.

A day of remembrance, sad to recall,  
The loss of our dad, best friend of all;  
One of the best God could send,  
A loving dad and a faithful friend,  
Two little words, not hard to write,  
But we'll remember them all our life—"My Dad".  
—Ever remembered by the family.

## United Church of Canada Holland Centre Circuit

Rev. R. K. Burnside, LL.B., Pastor  
10.30 a.m.—Holland Centre.  
2.45 p.m.—Harkaway.  
7.30 p.m.—Berkeley.

## Miss Macphail's Letter

### SECOND GAME AT KITCHENER SATURDAY AFTERNOON AT 3 O'CLOCK

## Markdale Juveniles Defeat Midland But Lose Round

Markdale's young hopefuls were eliminated from the O.J.H.A. series on Monday night when they defeated Midland youngsters but with not enough margin to cover the four-goal lead which the northerners had gained in the game in the Simcoetown. In the game at Midland the score was 6-2 for the home team and in the arena here on Monday night the locals won by 4-1, making the score on the round: Midland 7; Markdale 6.

The boys have reason to be proud of their showing. First they eliminated the "Pills" of Owen Sound, winning the round by 13 to 5. They then defeated Midland by 7 to 2 in the first game of the series played here. Midland defaulted the second game. Then they journeyed to Midland and met their first and only defeat.

The game on Monday night was played on ice which was too soft for good hockey and neither team was able to make the showing of which they are capable. It was a well contested game and the visitors had as much of the play as the locals but were unable to beat Dundas in the net.

Mitt. Burnside secured the first counter early in the opening period and Hartley added another before the gong sounded. In the second frame Burnside netted the puck when he took a pass from Borinsky, to come within one of tying for the round. Midland however beat Dundas with a rolling puck and the locals were two down. In the final frame York beat the Midland defence and hit the goalie with a close-in shot. Hunt was on the job and kicked up the rebound to get the last counter, making the score for the game 4 to 1. Gerow of Midland was given the only penalty in the game.

A Meaford man handled the game and was efficient and impartial.

Midland—Goal, Hepworth; defence, Badley and Swales; centre, Gillette; wings, D. McGibbon and Nesbitt; subs, Howard, F. McGibbon, Ellison, Brownell, Gerow.

Markdale—Goal, Dundas; defence, Hunt and Borinsky; centre, Burnside; wings, York and Hartley; subs, Fitzsimmons, Wiley, Burrell, Down and McGeer.

## LIVE STOCK MARKET REPORT

Monday's supplies of cattle proved to be too much for the present outlet, with the result the trading was slow and generally from 15 to 25 cents lower.

Choice weighty steers sold at from 6.00 to 6.50; fair to good from 5.25 to 5.75. In the butcher section the steers and heifers of choice quality brought from 5.75 to 6.00; fair to good from 5.00 to 5.65; common to medium 4.25 to 4.75. Baby heaves were considerably lower with choice from 6.50 to 7.00; medium to good from 5.50 to 6.25. The cow market held steady with the choice from 4.00 to 4.25 and a few heifers cows around 4.50; fair to good from 3.50 to 3.85; common to medium 2.75 to 3.25; canners and cutters 2.25 to 2.65. The bull trade was easier with the choice from 4.00 to 4.25; bolognas from 3.50 to 3.75.

Supplies of lambs were light and choice lambs sold at from 9.00 to 9.25 and those of medium to good quality from 8.25 to 8.75. Choice butcher sheep brought from 5.50 to 6.00. Calves were in good demand with choice from 9.50 to 10.00; fair to good from 8.00 to 9.25; common to medium 6.00 to 7.50.

The hog market worked a little lower due to heavier supplies and Monday's sales were made on the basis of from 10.00 to 10.15 for truck deliveries. The prospects for the balance of the week looks uncertain.

Who can say that Mr. King hasn't a guardian angel? Here he was in a tight corner. His party divided on the question. His own position not stated. The wrath of the Premier of the Province imminent. When, suddenly, the problem is dissolved by Mr. Roosevelt and Mr. Hull.

Well, perhaps we had better leave the power question for the moment. Using the words of Mr. Lapointe, Minister of Justice: "All's well that ends well."

## Cooke's Presbyterian Church

2.30 p.m.—Sunday School.  
7 p.m.—Evening Service.  
It is expected that Rev. Ernest Taylor, who has been appointed to this pastorate, will occupy the pulpit on Sunday evening.

HAVE YOU RENEWED?

So we don't export power after all, Mr. Hepburn's dare to the contrary. You will remember, Mr. Hepburn dared any Ontario member to vote against his application for the export. And now none need vote for it. It is amusing. But, in these disturbing and conflicting days, we need a little amusement.

At least, we are saved the humiliation of seeing a provincially owned hydro electric enterprise become the sales agent for the "power barons" of Quebec.

The Secretary of State of the United States, Cordell Hull, stated the case against transference of power from one nation to another in a state paper to the government of Canada; which, by the way, is the federal government. "It is well known," Mr. Hull said, "that successive governments in Canada have been traditionally reluctant to permit the long term exportation of power to the United States. The principal reasons underlying this policy were concisely stated in a letter recently made public from the Prime Minister of Ontario to the Minister of Trade and Commerce at Ottawa." (Mr. Hull was referring to Mr. Hepburn's formal application for a license to permit export, on January 21st, 1938, received in the office of the Minister of Trade and Commerce on the afternoon of January 25th, in which he argued the question for and against.)

Mr. Hull continued: "The objections as therein stated were as follows:

1. That the exportation of power results in the establishment in the United States of dependent communities or industries.
2. That irrespective of the terms of the agreement under which export delivery is made the commitments become irrevocable; that is, the deliveries cannot be suspended or terminated at any later date without giving rise to international complications and being regarded as an unfriendly act.
3. That the export of power enables industries which otherwise would establish themselves or branches thereof in Canada to handle their Canadian business from factories located in the United States.

Then, speaking for himself and his country, Mr. Hull stated: "It must be clear to all who have given thought to the problem that those reasons which have in the past made the exportation of power undesirable from the point of view of Canada have made the importation of power undesirable from the point of view of the United States. . . . In the circumstances, the government of the United States, believes it would be failing to discharge its proper obligation if it were to give its consent to the importation of hydro electric power, even on a temporary basis, without simultaneously providing for an alternative and equally economical domestic supply to be available when the imported power was withdrawn."

An onslaught was made by Mr. Slaght, M.P., the Hepburn lieutenant whose job it was to introduce the private Bill asking for the exporting license, had the statement by the United States not forestalled it. But, apparently, Mr. Slaght had the speech ready and didn't intend to waste it. It was a well delivered, vicious attack on all who would dare to oppose the exportation of power. He charged the opposition with forming a cabal with the Conservative members in the legislature against the Ontario government. His speech aroused resentment in all parts of the House.

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An impromptu debate on the railway question occurred, when Mr. Hearn protested against the cutting down of the days per week in the Canadian National shops or, alternatively, laying off a number of junior employees, giving preference to senior. Members argued that, if laid off, the country would have to keep them on relief and that it was better to have as much of our railway equipment as possible made in our shops, even going so far as to anticipate future needs.

The Minister of Transport, Mr. Howe, said that there was a "terrible" (Continued on page eight)