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Grey County Home Services

March 31—Rev. C. O. Pherrill.
April 14—Rev. J. E. Taylor.
April 28—Rev. S. E. Annis.
May 12—Rev. A. Mills.

A YOUNG MAN'S FANCY TURNS TO

LOVE in the SPRING

---But the Housewife's Fancy Turns to **HOUSECLEANING**

HOUSECLEANING SEASON MEANS MANY DISCARDED BUT STILL USEFUL ARTICLES WILL BE RE-DISCOVERED, DUSTED OFF AND PACKED AWAY AGAIN.

THIS SPRING SEE IF YOU CAN'T TURN YOUR USEFUL BUT UNUSED ARTICLES INTO CASH. SOMEBODY MAY BE LOOKING FOR JUST THE THING YOU HAVE STORED AWAY.

TRY A---

Small Advt. In The Standard

K. Gemmel Talks To Rotary

(Continued from page one.)

We mean pressure, exactly as you refer to 100 lbs pressure in a water pipe. When we say 110 volts, we mean electrical pressure. When we say Amps or amperes, we refer to the amount of electricity flowing in a wire in exactly the same way that you refer to water flowing in a pipe. The insulation on a wire is similar to the pipe in a water service. If the pipe becomes damaged, the water leaks away to the ground, and similarly if the insulation becomes damaged, the electricity leaks away to the ground. A stream of water at high pressure will knock you over, and we can assure you that electricity at high pressure or voltage will certainly do the same.

Suppose we look at the uses of Electricity. Possibly the most common use is the electric light. Years ago, we had the carbon arc light in which two sticks of carbon were used to give a sputtering, inefficient light. This gave way to the carbon filament lamp in which a thread of bamboo was carbonized and caused to glow in a partial vacuum. This was soon replaced by the Tungsten lamp in which a filament of Tungsten glowed in a partial vacuum. This was followed by the Nitrogen filled lamp which is our common lamp to-day. The sodium vapor lamps and the Neon lamps with their varied colors are becoming more popular every day. To show you how much the lamps have changed, I have here one of the old carbon lamps, a tungsten lamp, and the present day nitrogen filled lamp. Each of these lamps consumes the same amount of power at the same cost and you can readily see the difference in the amount of light.

Now let us discuss Magnetism. If we place a coil of wire around some iron and pass a current of electricity through the coil, the iron will become an electro magnet. If we place a large number of turns of wire around the wire and pass a heavy current through it, we will get a very strong magnet. I have here a coil consisting of hundreds of turns of wire and in the centre there is a quantity of iron. Watch what happens when I pass a current of electricity through the coil. This simple phenomenon lies at the base of the large majority of our electric equipment. The principle of magnetism is behind all our motors, our electric bells, our transformers and so on. In the smelters, cast iron pigs are loaded and unloaded by electro magnets which will lift thousands of pounds of iron. The magnet is carried on the cable of a crane, which lowers the magnet to the pile of iron, the current is switched on and the magnet attracts a large quantity of iron. The crane swings the load to the required position, and the current is shut off, allowing the iron to drop exactly as we have done with our small magnet.

Another interesting electrical point is what is known as the Selenium cell. Selenium is a chemical which is very sensitive to light and which can be made to pass a small electric current when subjected to light. Watch this little meter which is designed to show the degree of light. Notice how the pointer reacts when subjected to light. This principle is behind a great many electrical devices to-day. For instance when you approach the doors of the Pennsylvania R.R. station in Philadelphia, they swing open as you reach them. You don't have to put down your club bags - the door opens for you. A selenium cell is focussed at a point where your body intercepts a beam of light. An electrical indication results and a motor opens the doors for you. In the great Hudson tunnel in New York a broken down motor car would cause traffic to pile up behind in an endless stream that would be almost impossible to untangle. A selenium cell is focussed so that if a car stops within the tunnel, traffic lights are flashed at either end and all incoming traffic is stopped till the disabled car is moved. Certain traffic lights at the intersection of a busy street and a comparatively idle street are equipped with selenium cells. The traffic on the busy street has the right-of-way at all times till a car comes down the little used street. This car interrupts a beam of light, the selenium cell goes to work and flashes the red light on the busy street, allowing the other car to proceed. Fleischman's Yeast is wrapped in tin-foil entirely by machinery. A selenium cell is focussed on the conveyor belt in such a way that light is reflected from the tin-foil. If a piece of yeast has passed through without its tin-foil wrapping, the selenium cell notices it, opens a little gate in the conveyor and the unwrapped yeast drops off. In sorting rice, the selenium cell is used to remove any grains that still have their black covering left on. The selenium cell is also used for fire alarms, burglar alarms and for counting the number of cars, or persons that interrupt the beam of light in passing.

Now we come to what we call alternating current, which is the current commonly used throughout our homes, factories etc. If I pass this wire across this magnet, we will see that there is a current built up slowly to a maximum point, then drops off slowly and gradually builds up again in the opposite direction. This is alternating current, the voltage

starts at zero, builds up to a maximum plus value, returns to zero, down to a maximum minus value and back to zero in something like this form (Diagram of Sine Curve). This complete cycle, from zero to maximum plus to zero to maximum minus to zero again is called a cycle. 60 cycle current means this occurs 60 times a second. 25 cycle current means it occurs 25 times a second. In this territory we have 60 cycle current. When in Toronto you will likely notice that the lights seem to flicker a little. This is because the 25 cycle current is slow enough for the eye to catch the change, but 60 cycle is too fast for the human eye. We can explain alternating current by the water pipe analogy. If you have a pump connected to a water pipe and are able to start at no pressure, build up to say 100 lbs pressure, allow it to drop to zero, and then cause a suction till you have the equivalent of 100 lbs suction, and then return to zero, you have an example of alternating current. If you cause this to occur 60 times each second, you have 60 cycle operation.

Did you ever stop to think how cheap any form of power - steam engines, gas engines, or electricity is? Supposing for example that you decide that your wife's electric iron is costing too much money to operate and that you will generate the power for it while she is ironing next week. To turn out the amount of energy used by that iron, you would have to lift a hundred pound weight, five feet off the floor, sixty times a minute during the ironing period. If you wish to generate the energy used by a 100 watt lamp, you would have to lift 25 lbs three feet off the floor 60 times during every minute that lamp is burning. Supposing you put a man to work at his maximum ability for eight hours a day, 50 weeks in the year turning a small electric generator. At the end of 30 years, he would have turned out about slightly less than \$12.50 worth of electricity.

In closing may I point out that electricity is dangerous - very dangerous. When you fool with electricity, you are fooling with death. The voltage used in your house can be fatal quite as easily as the higher voltages which we are called upon to deal with. You should always shut off the power before monkeying with any electrical equipment in your houses, most certainly if you are in a damp location. Numerous people

How Is Business With You?

It is quite true that business does not come as easily as it did in years past. People are not spending as they did, and when they do spend they look for the full value for their dollar and are determined to make it go as far as it will. How is business created? In the old days folks dealt pretty much week in and week out with the same merchant. These days are past. People are shopping to-day and looking for values, and as a result, those businesses which progress are those which are finding new avenues to bring business to their stores. Do you realize that the live business man of to-day is required to put forth greater effort, and to concentrate more than ever if he is to secure trade?

In adversity many are pushed to the wall and strong, far-seeing individuals are getting out of the crowd and making progress. They are not willing to stand idly and talk about bad business. They are carefully analyzing the situation. They see every day the delivery trucks of departmental stores filled with parcels being delivered to citizens who were formerly their customers. They must have money to buy, as these firms demand cash. Is it therefore not time for local merchants to devise ways and means whereby they can win back this desirable business? Do you as merchants realize that on your shelves you have thousands of dollars worth of goods lying idle? Would it not be to your advantage to secure a little "hard cash" for these items, to stimulate your business by making your prices and displays so attractive that people will come in and buy? Business is what you make it. If you make up your mind to really work and put forth your best efforts, business is bound to increase.—Bowmanville Statesman

have been killed in their cellar, or in bath-tubs by defective electric equipment. Electric shocks cause a paralysis of the heart and lung muscles and is fatal unless Resuscitation can be commenced by a trained person immediately. This is beyond the scope of this talk, but I hope to have an opportunity at a later date to discuss Resuscitation with you.

At Troy on Saturday last the Markdale Juveniles were defeated by the home team, the score being 6-4.

WRIGHT'S FINE FOODS

*** STAR SPECIALS ***

SHORTENING 10½c lb.

White Beans 7 lbs. for 25c	Libby's Pork & Beans 1 lb., 5 oz. tins ... 3 for 25c
Corn, Peas, Tomatoes 3 tins for 25c	Clover Leaf Salmon 1 lb. tins ... 2 for 25c

ART WRIGHT
Phone 1w FRESH VEGETABLES We deliver
THE WRIGHT PLACE TO SHOP

Spring was officially declared on Tuesday, but one could not say that such was a fact, judging from the temperature and the amount of snow we have at present. Three inches of light snow fell Tuesday afternoon and this morning the countryside is a picture with snow and hoar frost hanging from the limbs of the trees. Week-end storms almost paralyzed traffic between Shelburne and Flesherton, as in some places the plows had to take in their wings and push through. For several years we have not had anywhere near the amount of snow as at present is with us.

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POPULAR
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Terry Cloth of firmly woven, thick and absorbent quality. About 20 inches wide. Special **29c yd.**

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Rough Crepe Remnants Each remnant contains from ¼ yard to 2 yards each. Specially priced from **5c up**

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AN ASSORTMENT OF
Quilt Patches in each package, made up of Prints, Broadcloths, Crepes, Silks, etc. Each pkg. contains about ½ lb. Special **12c pkg.**

CLEARANCE OF ODD LINES IN
Table Oilcloths Extra value here. Both 45 inch and 54 inch clearing at one price **29c yd.**

Food Specials

Bulk Cocoa	2 lbs. for 23c	Canned Tomatoes, 2½ size	8c a tin
White Cooking Beans	5 lbs. for 19c	Canned Peas, No. 4 sieve	8c a tin
Oatmeal, fine or coarse	5 lbs. for 19c	Tomato Juice, fancy quality Size 2½	3 tins for 25c
Clover Honey	4-lb. pail 39c	Pure Lard	10c a lb.; 2 for 19c
Clover Honey	8-lb. pail 75c	Dalton's French Drip Coffee	per lb. 39c
Derby Soap Flakes	3 lbs. for 19c		

F. T. Hill & Co., Ltd., Markdale