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MISS ANNIE L. CARSON, A. T. C. M. Teacher in Piano, Harmony and Theory Music, has opened her studio at Mrs. Grandy

LODGES PARTHENON LODGE, No. 267, A. F. & A. M., G. R. C.; first Wednesday, Masonic Temple, King St. J. SMITH, W. M.

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WELLINGTON Lodge No. 46, A. F. & A. M G. R. C., meets on th first Monday of ever mouth, in the Masonic Hall, Scane Block, King ting brethren heartily welcomed

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S. B. ARNOLD—Barrister etc., Chatham, Ont. Money to loan at lowest rates on easy terms. HOUSTON & STONE—Barristers, Solicitors, Conveyancers, Notaries Public, etc. Private funds to loan at lowest current rates. Office, upstairs in Sheldrick Block, opposite H. Mai-colmson's store. M. Houston, Pred Stone.

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ON LAND MORTGAGE AT 4½ TO 5½ PER CENT ON CHATTEL MORTGAGE AND NOTE AT 12 PER CENT. PAY OFF WHEN DESIRED.

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Beattie Farm, situate Township of Tilbury East. Contains 150 acres, 120 cleared. Good build ings. Price only \$4300. City and Farm Property bought,

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For Sale Cheap

THE BANK OF MONTREAL offers for sale, cheap, the lumber formerly owned by Scott Bros. & Co., suitable to farmers for barns o thuilding, etc., also Laths Doors and Window Frames.

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The only strictly high class PIANO made in Canada, reputed for its distinguished quality of tone and its beautiful up-to-date appearance. Insist on a Gerhard Heintzman they charm the most exacting. Studio in charge of Miss N. M. Richards, over Yon Gunten's Jewelry Store.

F. M. BEDFORD, Chatham

The struggle for life grows heavy when there is nothing but hunger in the house and nothing but sorrow in the heart.

THE STORY OF NICKEL ABSOLUTE

SOME OF THE PROBLEMS, AND HOW THEY WERE SOLVED.

Something About a Great Industry As It Is Seen at Copper Cliff To-day-How the Forces of Nature Have Been Utilized in Converting Nature's Raw Material Into Wealth-The Refining of Cobalt Ores.

Copper Cliff, March 17.

Back in 1888 a little smelter was arted in a clearing in the bushes about ive miles from Sudbury. A few roast eds were laid out, and in a very small beds were laid out, and in a very small way the production of nickel in Candada was begun. The next year another smelter was added and in a few years several more. These were little old-fashioned furnaces, capable of melting 100 to 150 tons each a day. At the present time they would be regarded very much like children's toys, but in those days they were considered both big and important. At first the Canadian Cooper Co. had an agreement with dian Copper Co, had an agreement with the Orford Copper Co., in accordance with which the latter agreed to take all the nickel matte the former could produce, refine it and return the nickel. produce, refine it and return the nickel. Th.'s arrangement held for a time, but in 1990 the Orford Copper Co. decided that it would be a good policy to have as much of the refining as possible done in Canada, and so The Ontario Smelting Works were built at Copper Cliff to roast and resmelt the Canadian Copper Co.'s matte, and bring it up to 75 per cent. of copper and nickel. They built three large roasting furnaces in which the matte was roasted to remove the sulphur, and two other large furnaces in which the matte was meltgd. naces in which the matte was melted down. This gave a product which car-ried about 75 per cent. copper and nic-kel, and 5 per cent. iron. This was sent to New York for final treatment.

Just as it began to appear that the oblem of the successful production of nickel had been solved for the Canadian Copper Co. the smelting works took free one winter night and burned to the ground. The Canadian Copper Co. appeared for the moment to be helpless They could produce plenty of nickel matte, but not of the required quality. The smelting works which had taken that matte and reduced it to the prothat matte and reduced it to the proper grade had disappeared in the night. Luckily the Mond Nickel Co.'s smelter was just then closed down preparatory to some changes being made, and the Canadian company succeeded in securing a lease of it. In a short time the company was producing a higher grade of matte than had ever been possible at the Ontario Smelter Works.

The best use to make of a misfortune is to turn it into a blessing, and this the

to turn it into a blessing, and this the anadian Copper Co. decided to do with Canadlan Copper Co. decided to do with the destruction of the Ontario Smelting Works. The company had learned a less of from costly experience. It was decided to build a new plant, which should be as nearly as possible fire proof, which should be complete and self-containing, and should have facilities for bringing up the matte to the highest pessible standard. This has now nighest possible standard. This has now peen accomplished.

een accompilshed.

About eighty-five per cent, of the cork of refining is now done at Copper cliff. For the final touches it is still eccessary to send the matte to New Jersey. If you ask why the whole work of refining is not done in Canada, the answer given is that a very great additional cost would be entailed. We have already seen that in the process as it is carried on at Copper Cliff quartz is largely used. If there was no quartz at Copper Cliff, and it had to be hauled a long distance, the cost of quartz would be an important factor in the cost of the refining. Now, in 'the final process a material is used which is a by-product of another industry. It can be had practically for nothing in Now larger It would cost a good does not be provided in the company itself owns no silver or Now Levy It would cost a good does not be provided in the company itself owns no silver or is a by-product of another industry. It, can be had practically for nothing in New Jersey. It would cost a good deal of money to haul it to Copper Cliff. It is a question of ways and means, they tell you. Men are constantly at work experimenting with a view to the discovery of new ideas and new methods by which a saving may be made in the by which a savening production of either matte or but up to date no improvement in the present system of producing refined nickel has been found. Dr. Mond has to send his matte to Swansea, Wales, after it has reached a certain stage, just as the Copper Cliff people have to send theirs to New Jersey. There is another theirs to New Jersey. There is another their way to seek publicity go out of their way to seek publicity means resent it. But the duty on nickel matte. Thus it is the American market is practically reserved for Canadian nickel. Caledonia nickel is debarred by the fact that the freight rates on any but the refined article would be prohibitive. So much of the work of refining is done in Canada, and

would be prohibitive. So much of the work of refining is done in Canada, and so little remains to be done—only about fifteen per cent.—that the matter is really not of so much importance as it may appear at first sight.

But to return to our story:

It was decided to build a smelter that would be a credit to Canada and in all respects in keeping with the great nickel industry. Mr. David H. Browne, the company's metallurgist, and one of the brainlest of the many bright and brainy men whom one meets in connection with their nickel industry, was commissioned to learn what he could about smelters, and assist in the erection at Copper Cliff of a plant that would embody all the best results the experience of the world had produced. It requires something more than enthusiasm and knowledge to build smelters, however. The new plant at Copper Cliff has cost in the near neighborhood of a million dollars.

A million dollars is a good deal of

Copper Cliff has cost in the near neighborhood of a million dollars.

A million dollars is a good deal of money to put into a plant in a place like Copper Cliff, yet that million dollars represents only a part of the expenditure. It was found that partly owing to the freight rates and partly owing to the protective tariff the coal item was such an enormous one that it was worth while considering if something could not be done to reduce the burden. The Huronia Co. is one of the subsidcould not be done to reduce the burden. The Huronia Co. is one of the subsidiary companies of the International Nickel Co. The Huronia Co. owned and controlled a water power on the Spanish River at High Falls. The river at this point divided on either side of a beautifully wooded island, and swept own a fall of sixty or seventy

Genuine Carter's Little Liver Pills.

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Very small and as easy to take as sugar.



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25 Conts Purely Vegetable. Steat Growt

GURE SICK HEADACHE.

feet in height. Heretofore this power had been going to waste. The ques-tion was, could it not be utilized to

solve the coal problem? The matter was referred to Messrs. Ross and Hol-gate, two of Canada's most competent engineers. They went over the ground, engineers. They went over the ground, reported satisfactorily, and the matter was left in their hands. Their idea was a colossal one. Instead of removing the island, they decided to strengthen it, and by so doing raise the river twenty feet, and render it capable of producing from 10,000 to 12,000 horse power. It was one of the most remarkable feats of hydraulic and electrical engineering ever attempted on this continent, and it has now been satisfactorily accomplished. Already a plant has accomplished. Already a plant has been installed capable of producing 6,000 horse power, and the plant is so laid out that the problem of increasing the power, even to the extent of doubling it, is only a matter of simple detail. A splendid power-house has been erect ed at the Falls, which breaks on the view of the astonished visitor who approaches it through the wilderness at night like a scene of enchantment. The power is carried to Copper Cliff, a distance of 37 miles over six lines of wire.
At Copper Cliff, it is received in a power station, which is one of the largest and most perfect concrete buildings on the continent, and by means of an immense "step-down" transformer is rendered available for use for all purposes. The great and costly steam plant, which is thus supplanted, is for the present kept as a reserve. It is the intention to carry the power to the Creighton mine, so that in a short time electric power generated by the forces of nature will be doing practically all the work that was formerly done by steam and coal. The cost of utilizing this water power so far has been about \$850,000. That is a lot of money but

water power so far has been about \$850,000. That is a lot of money, but it will save a lot of coal, and will eventually be a paying investment. Mr. Ross, who had charge of the electrical end of the work, is an old Woodstock boy, a nephew of Mr. A. J. McIntosh. He ranks among the best electrical engineers of the continent, as Mr. Holgate ranks among the best hydraulic and construction engineers.

One of the interesting institutions at

One of the interesting institutions a cobalt deposits, and all the work done at the smelter is customs smelting. The process has been arrived at after many months of experimental work, and is strictly guarded, admission to the work below positively deposited. being positively denied to anyone. This by the way, seems to be the only se-cret there is at Copper Cliff. Speaking for himself the writer of these letters must say that he was cordially receiv-ed, courteously treated, and hospitably go out of their way to seek publicity they by no means resent it. But the silver process is for the present a se-cret, and is carefully guarded. At pres-ent the products shipped from the Co-balt factory are silver bullion and refined arsenic. The cobait and nickel which the Cobalt ores also contain are sent in alloy to the refiners in New Jersey to be separated there. The Cobalt ores are what the miners call "refractory." To separate the silver is easy enough, but to get the silver without sacrificing the nickel, the cobalt and the arsenic is a more difficult problem. The Copper Cliff people claim that they have solved the problem, but the solution they are keeping to themselves for the present.

(To be Continued.)

SORE THROAT AND COUGHS. A simple, effective and safe remedy for all throat irritations is found in

CRESOLENE ANTISEPTIC TABELTS. They combine the germicidal values of cresolene with the soothing properties of slippery elm and licorice.

10c. All Druggists. When a man marries a

older than himself he must also expect to be the junior partner. Coughs, Colds, Hoarseness and other throat allments are quickly re-lieved by Cresolene Tablets; ten cents per box. All druggists.

There is nothing so powerful as example. We put others straight by walking straight ourselves.

Sunlight Soap is better than other soaps, but is best when used in the Sunlight way. Buy Sunlight Soap and follow directions.

THE WELL GROOMED WOMAN New Ideas For Making the Hair and Complexion Pretty.

If the gods at your birth did not be-stow the fairy gift of beautiful hair they were chary with their charms. There is no reason, though, for despair. This lack of generosity simply means added effort on your part to make up for their oversight. Dull hair is abhorred of Dame Fashion, whose man-date is for shining, scented locks. It requires lots of time and patience to accomplish this, but the trick can be done. First wash the hair as often as you deem it necessary. Whether it be every two weeks or three depends upon the oiliness of the hair. But be sure to select a sunshiny day, as success depends upon the tresses being thoroughly sunned and dried. Soap jelly and plenty of water will clean the hair perfectly. Rinse nine times. A little borax in the last water is very good.

Dry the hair until every bit of mois-ture is out of it. Let the air blow on it if possible: if not direct the maid to use vigorously a palm leaf fan. Avoid the "steamer" if you would have your hair shine. After the hair is washed don't put tongs on it for twenty-four hours; otherwise it will take away the gloss which has been such a labor of love to acquire. To keep the hair in good condition shampoo it twice a week by scattering a tablespoonful of finely powdered cornmeal through it and brushing with a soft brush until the meal is entirely out of the hair.

Perfuming the hair is a fad of the

moment, but before scenting it be sure that the locks are perfectly clean. To perfume it pour in the hand six drops of oil of jasmine, pass the brush light ly over your palm, then brush the hair until every strand has been gone over. This will give the hair a delicious odor. Care of the Complexion.

The woman who wishes to keep her complexion soft and smooth will wash her face with a cleansing cream be fore retiring. Rub in with the tips of the fingers.

There are very few foreheads, even among the youngest women, which do not show some slight trace of wrinkles. Dust will invariably collect in these little lodging places, no matter how shallow they may be. Good creams, properly applied, will remove every trace of dirt—traces so fine indeed that the eye ordinarily does not perceive them.

What is true of the forehead is equally true of the corners of the eye, mouth or nostrils, where wrinkles or blackheads are prone to creep in almost unawares.

After the entire face has been covered with cleansing cream allow it to remain on for about two minutes be-fore removing. This is accomplished with a soft towel or piece of gauze. If used during the day a good face pow-der may be applied after the cream. At night, before retiring, no powder should be used after the cream.

Fancy table gongs for calling the maid from the kitchen have altogether superseded the plain forms of striking



bells and are novelties shown in the shops among the new spring household furnishings.

Homemade Candies. Peanut Candy.—Two cups of granulated sugar, a cup of molasses, half a tenspoonful of cream of tartar, a tablespoonful of butter and a pound of nuts. Put the sugar, molasses and cream of tartar on the fire and let boil until it will make a hard but not brittle ball when dropped in cold water. Just be fore removing from the fire add the butter. Have the nut meats ready in a buttered pan, and pour the candy over them. When cool enough cut into squares.

Cocoanut Drops.—Put two cupfuls of sugar and half a cupful of water to-gether in a granite saucepan and boil without stirring until it forms a soft without stirring until it forms a soft ball after being dropped in cold water. Add three cupfuls of freshly grated co-coanut and cook a little while longer. Take from the fire and let it stand un-Take from the fire and let it stand undisturbed until a dent can be formed in its surface. Add vanilla and stir until creamy. Take out about a third of it and color pink. Reheat the white mixture over hot water, stirring constantly. Drop on paraffin paper, giving it a cone shape. At the apex of each cone put a little of the red candy.

Save Your Soap Scraps.

Odds and ends of soap accumulate in every household and are generally thrown away. To utilize them take a plece of stout flannel about six inches square; bring two of the edges, also one of the ends, together and sew strongly with worsted. You have then a long bag six inches by three inches. open at one end. Into this from time to time put all scraps of toilet or kitch-Buy Sunlight Soap and follow directions.

en soap. Fold the open top down and you have a square pad. The bag will be found most useful for greasy hands. "PROGRESS" SACK SUITS

Most useful-most popular-suit in a man's wardrobe. Easy_comfortable

Single and double breasted. In a range of effects, patterns and color schemes that run the whole gamut of correct style and good taste.

Hand molded and hand tailored-to hold their shape through the hardest of every day wear.



Tweeds, Worsteds, Cheviots, Cassimeres, Homespuns_in all sizes to perfectly fit men, youths and boys.



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PROGRESSIVE JAPAN.

Will Nationalize the Railways at a Cost of \$250,000,000.

Tokio, March 17.—The railway nationalization bill passed the House of Representatives yesterday without amendment by 243 to 109.
The cost of the purchase of home railways is estimated at \$250,000,000.

The Minister of Finance is confident that the purchase can be effected within five years without disturbing the

More Terrible Than War!

More terrible than war, famine or pestilence is that awful destroyer, that hydraheaded monster, Consumption, that annually sweeps away more of earth's inhabitants than any other single disease known to the human race.

"It is only a cold, a trifling cough," say the careless, as the irritation upon the delicate mucous membrane causes them.

the careless, as the irritation upon the delicate mucous membrane causes them to hack away with an irritable tickling of the throat. When the irritation settles on the mucous surface of the throat, a cough is the result. To prevent Bronchitis or Consumption of the Lungs, do not neglect a cough however slight as the irritation spreading throughout the delicate lining of the sensitive air passaves soon leads to the sensitive air passages soon leads to fatal results. If on the first appearance of a cough or cold you would take a few doses of

Dr. Wood's Norway Pine Syrup

you would save yourself a great deal of unnecessary suffering. Dr. Wood's Norway Pine Syrup contains all the life-giving properties of the pine trees of Norway, and for Asthma, Croup, Whooping Cough and all Throat and Lung affections it is a specific. Be sure when you ask for Dr. Wood's Norway Pine Syrup to get it. Don't be humbugged into taking something else. Price 25 cts.

Miss Lena Johnston, Toledo, Ont, writes: "I have used Dr. Wood's Norway Pine Syrup for throat troubles after taking numerous other remedies, and I must say that nothing can take the place iof it. I would not be without a bottle of tin the house."

The Toronto Tournament.

Toronto, March 17.—The committee has named the dates for the ninth semiannual boxing tournament of the city of Toronto, March 29, 30 and 31, in the Mutual street rink, entries closing on March 26.

Keen vourself well groomed, re-

IF WOMEN **ONLY KNEW**

Thousands of women suffer untold miseries every day with aching backs that really have no business to ache. A woman's back wasn't made to ache. Under ordinary conditions it ought to be strong and ready to help her bear the burdens of life. It is hard to do housework with an aching back. Hours of misery at leisure or at work. If women enly knew the cause Backache comes from sick kidneys, and what a lot of trouble sick kidneys cause in

But they can't help it. If mere work is put on them than they can stand it's not to be wondered that they get out of order. Backache is simply their cry for help.

DOAN'S KIDNEY PILLS

will help you. They're helping sick, ever-worked kidneys—all ever the world—making them strong, healthy and vigorous. Mrs. P. Ryan, Douglas, Ont., writes: "Fog over five months I was troubled with lame back and was unable to move without help. I tried all kinds of plasters and iniments but they were no use. At last I heard tell of Doan's Kidney Pills and after I had used three-quarters of the box my back was as strong and well as ever."

Price 50 ceats per box orethree boxes for

Price 50 cents per box of three boxes for \$1.25, all dealers or The Doan Kidney Pill Co., Toronto, Ont.

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ISISATISFYING. You will enjoy both when you place your linen with us, for we do our work by the most modern methods iknown to our art.

The Parisian Steam Laundry Co. Phone 20.

Our stock of rings is complete—all kinds and all sizes. If you are in need of a birthday ring come and see us. A Bloodstone for March. You shouldn't be without one Orif you know withoutone. Or if you know a pretty hand on which you would like to see the sparkle of a handsomering, come to us. We can supply one that will please, and the price will be moderate.

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