

Discovers a New Forest Product.

Are Canadians too modest? A famous Canadian thinks they are, and while he would not like to see them become boasters, he holds they should not deliberately hide their light. Do Canadians know that one of the recent important discoveries in the reduction of metal ores was made by Canadians? When the oil flotation process of ore reduction was invented an unprecedented demand arose for pine oil, a product of the turpentine industry of the southern United States, and the price of this oil rose to twenty times its original level in a month. Worse than that, Canadian reduction plants, in Ontario, British Columbia, and other provinces, were at times unable to get the oil at any price. The mining companies, after spending considerable money in searching for a substitute, applied for help to the Minister of the Interior, who directed the Forest Products Laboratories of the Forestry Branch to study the problem. One of the chemists of these laboratories, after working on the question for about nine months and collaborating in the final tests with experts in the Mines Branch, discovered that a waste product of the wood distillation industry, by a little refining, could be made to take the place of the expensive oil. The result is that ore reducing plants are now using this new and comparatively cheap product to the benefit of the whole industry.

Woodman Fell That Tree.

One of the great leaders in forest conservation says that the most harmful thing ever written about forestry was the poem beginning: "Woodman, woodman, spare that tree." This may seem odd at first sight but the point the forester desired to make was that the object of forest conservation is not sentimental but practical. The forester protects forests from fire and other enemies not for the sake of the trees but for the sake of men and women. When forest trees are ripe they should be cut and put to some use, as quickly as possible. There is no more virtue in keeping a forest till it is over-ripe than in keeping a field of wheat uncut when it is fit for the reaper. Until a forest is ready for the saw it should be protected, and when cut down the soil on which it stood, if not fit for agriculture, should be left in shape for the immediate starting of another crop of trees. Of course, the commercial forester, while primarily concerned in growing forests for the saw, does not ignore the immense value, both practical and sentimental, of park and roadside trees. It pains him to see a fine tree butchered because of ignorance or carelessness, and he realizes that the cause of forest conservation gains much from the support of men and women whose interest is not so much in the forest as a whole as in some individual tree or grove. Thus all citizens, whether they think of the commercial side, or of the conservation of the forest, should join wholeheartedly in the work of forest conservation.

Paying With Fish-Hooks.

In odd corners of the world many queer things are used as money. In China you may find in circulation lumps of gold or silver bearing marks which show that they were first issued hundreds of years ago. In shape they are square, oval, or oblong, and they weigh anything up to one and a half pounds. The Chinese use small strips of brass or copper, some of which are worth less than a hundredth of a penny. Some of the Mongol tribes pay their bills with little cubes of compressed tea. In Burma one finds the cowrie shell used as money, while little porcelain coins take the place of halfpence. The inhabitants of some of the districts bordering the Persian Gulf do their buying and selling with fish-hooks of various sizes. Africa provides a weird assortment. Beads, elephant tusks, and spear heads are all used as coins. In Oceania flint axes are the most common means of exchange, but we find considerable use made of parrots' feathers woven into ropes. The real wild Red Indian hardly exists now, but in a few remote countries, such as Alaska, he is still to be found using his shell money.

Growing Pine Trees Under Glass.

In the last few weeks items have been going the rounds of the Canadian press doubtless clipped from United States papers advising farmers to stop erosion in the gullies on their farms and render these waste places productive by planting longleaf and shortleaf pines. The advice in regard to the gullies is good but if the farmers want to grow longleaf and shortleaf pines they will have to put a glass roof over the gullies and apply artificial heat. The native home of these pines is "way down in Tennessee" and they do not grow satisfactorily north of Virginia. But Canadians need not be downhearted, because they can grow better trees than these southern pines. There is a large amount of information available in Canada as to what trees to grow. Provincial foresters are glad to give information and the Dominion Forestry Branch has published two bulletins which may be had free upon application to the Director of Forestry, Ottawa. They are No. 1, "Tree Planting on the Prairies," for the Prairie Provinces; and No. 2, "Care of the Woodlot," for the other provinces. Fish are believed to have a keen sense of smell.

HEALTH EDUCATION

BY DR. J. J. MIDDLETON
Provincial Board of Health, Ontario

Dr. Middleton will be glad to answer questions on Public Health matters through this column. Address him at the Parliament Bldg., Toronto.

Whatever the tendencies of modern business and industrial methods are, one thing is certain, the hearts of the people are right. All the profiteering, labor disputes and social unrest that we see to-day are unnatural conditions, disliked by everybody. Brought into being largely by the displacement of the whole world during the years of war, these social abnormalities must pass away. They cannot possibly endure; they will not be tolerated by the thinking peoples of the earth. Profiteering and labor disputes work towards destruction, but the world wants service. Everywhere we go this idea of being of service to our fellows is gaining ground. What a splendid example of this is afforded by the Rotary Clubs, a new organization which already has jumped into the forefront of the fight for human happiness and betterment. These splendid clubs are now formed in most of our large towns and cities, and as their watchword is "Service," no drones or lazy folk are admitted to membership. You must be a worker or you stay outside. Even after joining, if you fail to attend the regular meetings or take part in the club's activities, you go. These clubs being non-sectarian, all the most energetic men in the community are eligible for membership, and rarely is there any worthy cause that the Rotarians will not endorse and help forward by every means in their power. One of the most interesting features of the Rotary Club meetings is the promotion of cheerfulness and friendship. All conventions are set aside and members are called by their Christian names. After the soup is served there is a sing-song in which everybody must join. Good-fellowship without formality reigns supreme, promotes digestion, and rests the mind for an hour from the worries and concentration of business or professional life. Above everything, the purpose of the Rotary Club is to be of use and service to others and to themselves. Their creed is progressive and rings true. Here it is: "My business standards shall have in them a note of sympathy for our common humanity. My business dealings, ambitions and relations, shall always cause me to take into consideration my highest duties as a member of society—to consider my vocation worthy and as affording me distinct opportunity to serve society—to improve myself, increase my efficiency and enlarge my service, and so doing attest my faith in the fundamental principle of Rotary, that no profits more who serves best." Surely nothing could be more in line with the Social Service program of Public Health than this creed of the Rotarians. May these clubs grow and prosper!

World's Biggest Saw.

There has just been fashioned for one of the big lumber mills in British Columbia the largest circular saw ever made.

To be accurate, there are two of them, and they have been designed to meet special requirements of the mill which is called upon to handle giant fir logs, many of which run from fifteen to twenty-five feet in girth. There are millions of acres of fir forests in British Columbia, there being sufficient timber in this single province of the Dominion to supply the world with all the lumber it needs for many generations to come.

Each saw is nine feet in diameter, and boasts one hundred and ninety detachable teeth of the inserted spiral type. This is an important innovation, and means that should any of the teeth get broken or damaged, new ones can be inserted without removing the saw from its frame.

Each blade was cast from ingots weighing 1,140 lb. After reheating, rolling, and trimming, the finished blades turned the scale at 795 lb. apiece. Great care had to be exercised in the final treatment, as they had to be mathematically true and perfect, and the steel of a uniform quality. This giant among saws is capable of attaining a speed of one hundred and thirty miles an hour. It can saw through the greatest forest giant that ever grew as easily as one can cut butter with a knife.

Eggs With White Yolks.

The secret of obtaining eggs with white yolks has been solved, it is stated, by two poultry breeders. The yolk derives its fine, yellow color from a natural dye, carotin, which also constitutes the pigment of carrots. This carotin produces, as well, the intense yellow coloring in the beak, the earlaps, and the legs of Leghorns, an Italian breed.

By eliminating all carotin from the feed it was possible to produce perfectly white Leghorn hens, and these hens in turn laid eggs with white yolks; their fertility was not, however, limited in the least.

The frequent disappearance of the yellow pigment from earlaps, legs, etc., which has been observed in Leghorns during the laying period, is caused by the fact that during this time carotin is excreted, first of all in the yolk.

In the case of laying hens which produced eggs with white yolks, the carotin contents of the different feeds could be examined very easily. It proved that carotin is contained in greatest amount in Indian corn and green feed.

Will It Be Fine?

Do you know how to tell if it will be fine, no matter where you happen to be?

It is quite simple. Just watch the birds and the animals. Their actions will give you as good a weather forecast as you need for everyday purposes.

If you are at the seaside, watch the gulls. When they fly inland you may be sure there will be rain. As the old proverb has it: "Seagull, seagull, sit on the sand, it's never fine weather while you're on the land."

Weather changes have curious effects upon crows. A coming shower will make a crow try to scratch her ears. If a thunderstorm is over the way, her tail will thump vigorously against her ribs. Black snails on a country road at dusk indicate rain. The humble rooster, too, is a good weathercock. He usually can scent a coming shower well in advance. "If the cock goes crowing to bed, he will certainly rise with a watery head."

It is easy to read the weather signs of the sky. A haled moon always foretells rain. The stars, too, have a misty appearance before a shower. "When the stars begin to huddle, The earth will soon become a puddle."

If, when the rain does come, it arrives from the east, it will usually remain for two days. If rain threatens for a long time, it will remain for a long time.

Flying Torpedoes.

Experiments, throwing a new light on the problems of aerial war, are reported as having been taking place with great secrecy near Paris.

Small, heavier-than-air machines, really torpedoes with wings, are sent up into the air under their own power, and entirely pilotless, and are then controlled by wireless telegraphy. Machines are flown for considerable distances and made to carry out manoeuvres while under wireless direction from the ground.

A further development contemplated is for a method to be perfected by means of which a pilot in an aeroplane can control the movements of one of these air torpedoes.

This would mean that after a torpedo had been launched and controlled to a certain height by the land station, its direction would be taken over by a pilot in a special aeroplane, who would send it on ahead until he had guided it to its target, he himself remaining at some distance.

The U.S. navy has now in its service 2,600 carrier pigeons.

Here and There in Canada.

Five hundred mud sharks in less than two hours is the catch announced by the Anglo-British Canadian Company, Limited, which organization is now prosecuting the shark fishing industry in the Gulf of Georgia.

Much has been done in recent years by the Dominion Experimental Farms to increase the production of eggs laid by varying breeds. In the eastern provinces many hens are now laying from 150 to 250 eggs annually, while at Indian Head, Sask., 105 pullets had an average of 183.7 eggs, the highest being 292. At Lethbridge production has been increased two or three times over that of nine or ten years ago. At the Vancouver Island farm one pullet laid over three hundred eggs.

Several prominent British financiers, interested in oil development, are expected in Calgary this summer, to investigate not only the Northern oil fields but the producing area of Southern Alberta.

W. A. Matheson and Major Hayre, of Fort William, have returned from a gold mining location, which they have taken up on the north shore of the Sapaw Lake, bringing with them some very rich samples of visible gold.

The gold prospectors twenty years ago found some rich ore, and the vein is said to be from ten to twenty feet in width. The fisheries production of Canada for the year 1920 reached a value of \$49,321,217, according to returns just issued by the Dominion Bureau of Statistics. British Columbia's fishing industry accounted for \$22,300,000 of the total, and that of Nova Scotia for \$12,700,000. Salmon is by far Canada's most important fish, the lobster coming second, and cod, halibut and herring in the order named. Nearly \$2,000,000 worth of whitefish were marketed.

On board the Canadian Pacific Railway steamship Victorian, which arrived at Quebec recently was a party of twenty-eight English orphan boys en route to Sherbrooke, where they will be instructed in the rudiments of Canadian farming and after a course of one or two months will be sent out to different farms, in the Dominion.

Approximately \$10,500,000 insurance is held by Canadian war veterans under the provisions of the Returned Soldiers Insurance Act, representing about 3,800 policies. There has been a marked increase in the number of policies taken out recently since an amendment to the act arranged for the payment of total amounts at death.

Electricity is being used for the first time in New Brunswick as power for rafting purposes, by the Nashook Pulp and Paper Company, at the mouth of the Nashook River, where rafts of timber are made up for shipment to St. John. A twenty-horsepower motor and a crew of seventy men now do the work formerly requiring a crew of 200 men, when the rafting was done by hand.

RED HOT JULY DAYS HARD ON THE BABY

July—the month of oppressive heat; red hot days and sweltering nights; is extremely hard on little ones. Diarrhoea, dysentery, colic and cholera infantum carry off thousands of precious little lives every summer. The mother must be constantly on her guard to prevent these troubles or if they come on suddenly to fight them. No other medicine is of such aid to mothers during the hot summer as is Baby's Own Tablets. They regulate the bowels and stomach, and an occasional dose given to the well child will prevent summer complaint, or if the trouble does come on suddenly will banish it. The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Wanted a Change.

A somewhat befuddled guest appeared before the desk of a smart hotel and demanded in thick but firm tones that his room be changed.

"I'm sorry," the clerk told him, "but all the rooms are taken."

"Must have another room," insisted the guest.

"What's the matter with the room you have now?"

"Well, if you must know," explained the dissatisfied tenant, "fish on fire!"

Minard's Liniment for sale everywhere

Digging for Fish.

Izaak Walton would scarcely believe his eyes if he were to walk through New Smyrna, Florida, and encounter Negroes digging live fish from the ground as if they were potatoes.

A certain variety of mud fish found in nearly all parts of the State is responsible for this state of affairs. This queer member of the flabby tribe inhabits streams or ponds which have mud banks or bottoms. It is black, and weighs up to five or six pounds. When the water in a pond evaporates, as it does during certain seasons of the year, leaving only a mass of mud, which on the surface is almost dry, it doesn't worry the fish.

The fish merely burrow into the mud to wait for rain, and apparently continue to live as long as the earth is wet. The Negroes locate the fish by exploring the mud with their bare feet.

The fish is edible, but is not a favorite because of its stringy and coarse flesh.

It is much easier to keep up than to catch up.

STOMACH TROUBLE DUE TO THIN BLOOD

It Usually Disappears When the Blood is Made Rich and Red.

Thin blood is one of the most common causes of stomach trouble. It affects the digestion very quickly. The glands that furnish the digestive fluids are diminished in their activity, the stomach muscles are weakened and there is a loss of nerve force. In this state of health nothing will move quickly through the appetite, digestion and normal nutrition than good, rich, red blood.

Dr. Williams' Pink Pills act directly on the blood, making it rich and red, and this enriched blood strengthens weak nerves, stimulates tired muscles, and awakens to normal action the glands that supply the digestive fluids. This is shown by an improved appetite and soon the effect of these blood-enriching pills is evident throughout the whole system. You find that what you eat does not distress you, and that you are vigorous instead of irritable and listless. If your appetite is feeble, if you have any of the distressing pains and symptoms of indigestion, you should at once take Dr. Williams' Pink Pills and profit by the better condition in which they will put your blood.

These pills are sold by all dealers in medicine, or you can get them by mail at 50 cents a box or six boxes for \$2.50 from The Dr. Williams' Medicine Co., Brockville, Ont.

With the Boy Scouts.

"What the Boy Scout training does for me" is the subject of a letter competition being conducted for Sarnia Boy Scouts by the local Association. Prizes of Scout books and subscriptions to Canadian Boy, the Boy Scouts Magazine, will be awarded to the boys writing the best letters, and a number of these letters will be printed later in the Scout Column of the "Canadian Observer."

It is interesting to note that the team which won the Howison trophy in the Brockville junior baseball competition was entirely composed of Boy Scouts.

While Brockville Scouts seem to make baseball their athletic specialty, Sudbury Scouts go in for football. Two games by their chief opponents, the Copper Cliff Cadets, recently resulted in a tie and a 2-1 victory for the Scouts.

Mother has joined the Scouts! But on investigation we found that she really hadn't. What she did join was the Ladies' Auxiliary of the 51st Toronto Troop. The Scout Mothers recently held a garden fete in aid of the troop camping fund. A good program, in which local artists co-operated with talented members of the troop, netted the treasury over \$170.

The Catholic Boy Scouts at Espanola participated in the ceremony of illuminating the statue surmounting the soldiers' monument on the Sacred Heart grounds. They acted as a guard of honor and gave the full salute as the lights were turned on.

Scouting grows. Amongst the most recent troops to receive their Charters from headquarters are organizations having their headquarters in Blyth, Niagara Falls, Essex, Elk Lake, Winona, Espanola, Metcalfe, Dutton, Bridgeburg and Preston.

Taking up the slack in a boy's leisure time is one of the most serious problems of the home. The program of activities of the Boy Scouts Association has stood the test of twelve years as one of the most practical solutions of the problem ever devised.

Some men accept literally the biblical warning: Spare the rod and spoil the child. Others prefer the promise: Train up a child in the way he should go and when he is old he will not depart therefrom. The Boy Scout Movement is based on the latter principle and should be encouraged through increased leadership by men able to devote time to this great work.

Canadian Forest Investigations.

While in all districts where there are technically trained foresters located there are observations being made and investigations of a more or less detailed character being carried on, the organized scientific work in these directions has been mainly centred at the forest experimental station at Petawawa, Ont., and at the forest nursery station at Indian Head, Sask.

At Indian Head, a large number of plantations of small area, in some cases of single species and in other cases of various mixtures, have been in existence for some years. Careful records have been kept from year to year of the growth and development of the trees and there is being steadily accumulated a store of information that will be of the greatest value in future planning work on farms or in the forests. Annual Report, Director of Forestry, Ottawa.

MONEY ORDERS

A Dominion Express Money Order for five dollars costs three cents.

At Regular Rates.

Miss Margaret Moore hung on the arm of the editor of the Titusville Leader, to whom she had been engaged for three years, and endeavored to turn his gaze toward the sky.

"Just notice the moon, Clarence!" she said, in a melting voice.

"At the usual rates, Margaret, I shall be happy to do so," he replied.

Minard's Liniment Relieves Neuralgia



WET AND DIRTY

Dangerous.
Mrs. Arris—"Mrs. May, do you like apples?"
Mrs. May—"Apples? I 'ates 'em! I wouldn't eat a napple for the world. My old mother died of apple-plexy!"

Still, Small Voice.
"But, Tommy," said his mother, "didn't your conscience tell you you were doing wrong?"
"Yes," replied Tommy, "but I don't believe everything I hear!"

Almost Like New.
Caller—"Isn't that picture one of the old masters?"
Mrs. Newrich—"I believe so, but my husband had it varnished and framed in a way that makes it look almost as good as new."

Took Pity on Him.
"Darling," he cried, in tones of deep emotion, "at last you are safely in my arms and nothing shall part us more."
The object of his touching words and passionate embrace made no response, but remained cold and silent. Tears welled into his eyes.

"Dearest," he continued, "how can I prove my love? Is there no sacrifice I can make for your sweet sake, no suffering I can endure?"

This final appeal was irresistible.
"The best thing you can do, my man," said a gruff voice, "is to come along with me," and a brutal policeman unfastened him from the lamp post and led him silently away.

Same Old Things.

A Cambridge undergraduate, contrary to regulations, was entertaining his sister, when they heard someone on the stairs. Hastily hiding his sister behind a curtain, he went to the door and confronted an aged man who was revisiting the scenes of his youth and was desirous of seeing his old rooms.

Obtaining permission, he looked round, and remarked, "Ah, yes, the same old room." Going to the window he said, "The same old view, and peeping behind the curtain, he exclaimed, 'The same old game!'"

"My sister, sir," said the student, "Oh, yes," said the visitor, "the same old story."

Think over the acts of your life carefully before you ask for exact justice.

Canadian expenditures on naval and military defence are the lowest of any country in the world, according to the statement of the Minister of Militia in the House of Commons, the per capita expenditure for defence, including that for militia, naval and air forces, being only \$1.89. The percentage of annual revenue to be devoted to defence purposes this year is 3.5 per cent.

America's Pioneer Dog Remedies Book on DOG DISEASES and How to Feed and Train to any Address by the Author, Dr. J. J. Cluff, 113 West 21st Street, New York, U.S.A.

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MINARD'S "KING OF PAIN" LINIMENT YARMOUTH, N.S. The Original and Only Genuine Beware of Imitations sold on the merits of MINARD'S LINIMENT

ASPIRIN Only "Bayer" is Genuine

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Warning! Unless you see the name "Bayer" on package or on tablets you are not getting Aspirin at all. Take Aspirin only as told in the Bayer package for Colds, Headache, Neuralgia, Rheumatism, Earache, Toothache, Lumbago and for Pain. Then you will be following the directions and dosage worked out by physicians during twenty-one years and proved safe by millions. Handy tin boxes of twelve Bayer Tablets of Aspirin cost few cents. Drugists also sell larger packages. Made in Canada. Aspirin is the trade mark (registered in Canada), of Bayer Manufacture of Monocetilsalicylic acid of Salicylic acid.

IMPROVEMENT IS TALK OF FRIENDS

TANLAC DID HER WORLD OF GOOD, SHE SAYS.

"Change It Has Made in Me Is Simply Wonderful," Says Toronto Woman.

"Tanlac has certainly had a good chance in my case to show what it can do, for I sure had a long hard struggle and had just about tried everything," said Mrs. Mary Richards, 251 Ashdale Ave., Toronto.

"I have been in a badly run-down condition ever since I had pneumonia six years ago. My stomach was nearly always out of order. My appetite was very poor and I had to be very careful about what I ate, as I suffered terribly from indigestion, bronchitis and pains in my chest. My sleep was never sound and I had a tired, worn-out feeling all the time. I had dreadful headaches and weak spells and had fallen off in weight until I was scarcely more than a shadow of my former self, and I was absolutely unfit for work of any kind."

"But Tanlac has done me a world of good." My stomach is in fine condition and I eat all I want and everything agrees with me perfectly. All my aches and pains are a thing of the past and I'm stronger than I've been in a long time. In fact, Tanlac has the same as made a new person of me, for I can do my housework with ease and my friends are talking about the wonderful change that has come over me. I don't believe anyone who suffers as I did can do better than take Tanlac." Tanlac is sold by leading druggists everywhere. Adv.

Not for Vulgar Eyes.

There must be many Japanese still living who can remember when their countrymen would have regarded with horror the manner in which the Crown Prince allows himself to be gazed upon by foreign crowds.

So late as 1897 no Japanese was allowed to look upon the Emperor, who lived a life apart in the seclusion of his palace. All that was seen of him by those who waited on his commands was his back. When the rule was first modified to the extent of his leaving the palace all shutters had to be put up, all blinds drawn, and even the crevices covered with paper, and no one was permitted in the streets.

Vast changes have taken place since then, but even to-day it is not considered quite proper and respectful by the masses of the people to look at the Emperor or his heir when they drive through the streets.

ACUTE ECZEMA ON BABY'S HEAD

Face, Neck, Arms, Terrible Slight, Itched And Burned. Cuticura Heals.

"Baby was two months old when I noticed little pimples on her head. They kept getting worse and spread all her head, face, neck and arms were one mass of eruptions, burning, itching, and bleeding. I was told it was eczema. I had to stop her from scratching her face and arms and legs in sleep. She was a terrible sight. For one year I had no rest night or day."

"We got Cuticura Soap and Ointment. In less than two weeks she began to mend and in a few months she was healed." (Signed) E. M. Boorman, 243 McDonald St., Portboro, Ont., April 19, 1919.

Stop the use of all doubtful compounds. Use Cuticura for all toilet purposes. Soap 25c, Ointment 25c and 50c. Sold throughout the Dominion. Canadian Agents: The Canadian Drug Co., Ltd., 113 West 21st Street, New York, U.S.A.

HAS NO PAIN NOW

What Lydia E. Pinkham's Vegetable Compound Did for Mrs. Baker and Mrs. Kiever.

Vancouver, B.C.—"I am pleased to say that Lydia E. Pinkham's Vegetable Compound has done me a lot of good. I can now walk about without the aid of a support and feel real strong again. A nurse advised me to take the Vegetable Compound and it is certainly helping me. It seems like Heaven to be relieved after months of pain."—Mrs. H. W. Baker, 8874 10th Ave. West, Vancouver, B.C.

Albert Co., N.B.—"I have taken Lydia E. Pinkham's medicines and they have done me a lot of good. Since then I have been able to do my housework and I have a lot of work to do as we live on a farm. Seeing your advertisement in the papers was what made me think of writing to you. I hope this may help some one else."—Mrs. W. B. Knapp, Upper New Horton, N.B.

The reason women write such letters to the Lydia E. Pinkham Medicine Co. and tell their friends how they are helped is that Lydia E. Pinkham's Vegetable Compound has brought health and happiness into their lives. Freed from their illness they want to pass the good news along to other suffering women that they also may be relieved.

If there are any complications you do not understand write to Lydia E. Pinkham Medicine Co., Lynn, Mass.