The mighty forces which open the petals of the rose and bring the color of the peach which unfold the leaves and flowers, work silently, noiselessly.

Scientists tell us that there is chemical force, power enough in the sunlight, working upon a few acres of glass, to run all the machinery in the world. Yet we hear no sound, not a particle of noise, although the forces are terrific.

There is a moral for everyone in this. Think it over.

Origin of Some Famous Church Hymns.

Interesting and sometimes pathetic are the stories connected with the writing and history of certain famous church hymns.

A pretty story is told about the origin of the favorite Christmas hymn, entitled "Christians, Awake, Salute the Happy Morn." The composer, John Byrom, who lived in 1745, had a favorite daughter, Dolly, for whom he had promised to write something for Christmas day. She reminded her father of his promise. The result was that among her Christmas presents there was an envelope containng the hymn in original manuscript form, the title of which was: "Christmas Day for Dolly." This original manuscript is preserved in Cheetham's Hospital, in Manchester, England, and bears evident traces of having been carried around in Dolly's pocket.

"Jesus, Lover of My Soul" is a hymn around which many traditions and sacred associations cling. The story connected with its origin is very beautiful. Charles Wesley, the composer, was sitting at his desk near an open window when a dove pursued by a hawk, flew into the room. The dove was saved. This incident inspired John Wesley to write his famous hymn. His Christmas hymn, "Hark, the Herald Angels sing," originally written, "Hark, How All the Welkin Rings," is to be found in almost all hymnals, and has been translated into many languages.

"Abide With Me" was written by Henry Francis Lyte at Brixham, England, and it was his last compositon. One Sunday evening, after leaving his church and congregation, he walked down to his garden near the seashore. He returned to his study at sunset. An hour later he wrote the hymn and showed it to his family. He died a few days later.

Toplady, who wrote "Rock of Ages," did not dream it would become so widely known and so highly esteemed as it is among people of all religious beliefs. Gladstone translated it into three languages, and it was the hymn for which the Prince Consort asked on his death bed. It was this hymn that was sung when the ship London went down in the Bay of Biscay in 1866. The voices of the people singing "Rock of Ages" on the doomed ship was the last sound heard by those who were fortunate enough to be rescued.

Windows Made of Rubber.

As a result of experiments which have extended over a period of four years and upon which thousands of pounds have been spent, two British chemists have produced a rubber which is as transparent as glass and as elastic and non-breakable as ordinary rubber.

Tests have shown that it is impossible to break these rubber windows in the ordinary way. A ball bouncing against a pane only causes it to bend slightly, when it at once returns to its original position undamaged. It is, of course, possible to tear a hole in the new glass by striking it wit a heavy missile, but there are no splinters.

In addition to making windows, the transparent rubber can be used for a variety of purposes. It is declared to be ideal for lining garments, thereby making them absolutely waterproof. In future bathing caps will be made of the new material, and the effect will be invisible coverings showing the hair yet keeping it dry.

So far no details of the process are available, but one is destined to hear a great deal about this invisible rubber in the near future.

Searching for Stars.

Canada is to possess the largest of all telescopes. It will have a mirror 120 inches in dameter. It has already been cast, and is now being ground and polished. The latter task is expected to occupy at least five or six years.

The largest existing telescope is the 100-inch instrument at Mount Wilson, in California. It took four years to grind and polish the mirror, and in doing so over a ton of glass was removed.

It is the wonderful success of the 100-inch telescope that has led Canadian astronomers to make the plunge and sink $300,000 in a ten-foot mirror. The new telescope will be set up in an observatory on the Pacific Coast of British Columbia.

It will make a star appear 300,000 times as bright as the eye sees it. The number of stars seen througout the entire sphere of the heavens by the naked eye is about 5,000. The 120-inch instrument is expected to reveal at least 400 millions, or a million more than can be seen by any other existing telescope.

The Four Seasons.

A small boy, asked to name the four seasons, replied:

"Pepper, salt, mustard, and vinegar."

If there were no clouds, we should not enjoy the sun.

Luscious—

Made With Raisins

—and already baked for you

SAVE the trouble and the time of baking pies at home, yet give your men folks pies that are exactly to their taste.

Master bakers and neighborhood bake shops in your city are making luscious *raisin* pie fresh every day. Your grocer or these bake shops can supply them.

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Crust that's light and flaky—tender, thin-skinned, juicy fruit, the juice forming a delicious sauce! There's nothing left to be desired in a pie.

Made with finest seeded Sun-Maid Raisins.

1560 calories of energizing nutriment per pound in practically predigested form. Rich in food-iron, also—good food for the blood.

Make cakes, puddings and other good foods with them.

You may be offered other brands that you know less well than Sun-Maids, but the kind you want is the kind you know is good. Insist, therefore, on *Sun-Maid* brand. They cost no more than ordinary raisins.

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Please send me copy of your free book, "Recipes with Raisins."

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STREET.....

CITY..... PROVINCE.....

Race Track Betting, 1922

Dr. J. G. Shearer, Secretary Social Service Council of Canada.

Another racing season on the race tracks has come and gone and the results so far as Ontario is concerned are published by the Government.

The total money wagered in the seasons of 1920, 1921 and 1922, on the eight tracks in Ontario, are: 1920, $42,164,000; 1921, $56,778,596; 1922, $44,244,402.

We have not the figures for Quebec, which in 1920 were $11,000,000, and for 1921 $10,852,000. They are probably not much different for 1922. This remark will apply also to the other provinces. The total, therefore, wagered in Canada this year will probably be about $65,000,000, which will be $12,000,000 less than for 1921, the whole difference being in Ontario. This constitutes a serious handicap on legitimate business. In addition to this, however, there is all the money wagered illegally with handbook men in shops, stores, poolrooms, hotels, factories, etc., which no one can know but which is estimated to be probably as much as that wagered legally on the race tracks. It continues throughout the year, the bets being placed on races anywhere on the continent. In winter bets are placed on races in the South and in Mexico, where that is the favorite racing season, whereas legalized betting in Canada is limited to 14 days in summer on each track each year.

But why is there a drop of $12,000,000 in Ontario this year as compared with last? It is mainly due to two causes. First, the 5% tax placed by the Ontario Government on all moneys wagered, which netted $2,212,220 in addition to taxes on tickets of admission (amusement tax) and the tax of $7,500 per day on mile tracks, and $2,500 on half-mile tracks. Second and chiefly, the splendid and insistent daily campaign kept up throughout the five months racing season by the Toronto Globe, the Detroit News (which reaches the bulk of the patrons of the three Windsor tracks), and other papers. The two papers named deserve special credit and of these the Globe's campaign was the abler and more persistent; editorials on the subject appearing at least once a week, if not oftener.

Every day the figures were given of the total the betting public paid out, the total rake-off the Jockey Clubs took, and the total the Government took in taxes, and the total that the betting public lost. It was persistently argued that in consequence there was an absolute certainty of serious loss to the wagerers who usually did not on the average get back more than three-fifths of what they paid out.

Further, these papers published from day to day cases of defalcation, broken homes, divorces, trials, convictions and penitentiary sentences, resulting from the frenzy of betting on the part of great numbers. There were interviews also with business men, who complained of bad debts, credit instead of cash buying, and falling off in purchasing resulting from extensive wagering.

As a consequence we believe that public opinion in Ontario is aroused as never before against this iniquitous vice and the legalization of the business of promoting and cultivating it.

Parliament will be challenged again early in the coming session. We shall see with what result. Two amendments will be asked to the Gambling Sections of the Criminal Code; one that the business of betting by parimutuel machines, book-making and pool-selling be made criminal, as it already is everywhere except in race tracks during the racing meets; the other that the publication of betting odds; tips, and other information that can be and is used in betting with hand-book men be also made a crime. When this is done, racing will stand on its own merits and not on a criminal foundation as at present.

The habit of nibbling their penholders, so common among school children, is believed to be a fruitful source of disease, especially if the peholders are handled by different scholars.

People who are every now and then "turning a new leaf" blot the new with the same stuff that spoiled the old.

EARN BIG MONEY

LEARN THE AUTOMOBILE BUSINESS

The world's greatest industry. Millions of automobiles needing constant service; millions of batteries and tires to repair; millions of parts to rebuild. Tremendous opportunities await the trained automobile man. That's why it pays to learn the automobile business,—and learn in Detroit, the auto center of the world,—the Heart of the Auto Industry where 79% of the autos are made.

Make $2,000 to $10,000 Yearly

—Have a Business of Your Own

Thousands of our graduates are making big money in the auto business. Hunts (Sask.) making more money than he expected; Fettigrew (Quebec) appointed Instructor at Tech. School; Collette (Alberta) in business and has all he can do; Steckle (Penn.) was getting $18 weekly, now making $100 per week; Mayes (Kas.) saves $100 monthly above expenses; Johnson (Ohio) jumped from "pencil pusher" at $13.50 weekly to auto mechanic at $42.50 per week. Hundreds more like them.

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Every branch of the auto business is taught:—Construction, operation, up-keep and repairs of autos, trucks, tractors, farm lighting plants and gas engines. All teaching by actual practice. No guess work. Students learn by actual factory methods. Big auto factories helped outline our Courses and give our students fullest co-operation, also heartily endorse our School.

Special Courses in Battery Repair, Tire Repair, Brazing, Welding and Machine Shop Practice.

Good Positions Await Our Graduates—Factories, garages and service stations continually call for M.I.A.S. trained men.—40 calls in one day recently—offering positions with good salaries and excellent opportunities for advancement, or go into business for yourself.

Come Now! Don't Wait—The man who "gets there" must first "get busy." It's not a question of "Can I be spared?"—but, "Do you want to do it?" If you do, here's your chance. Start Now! Write Today for FREE Catalog.

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EXPANSION OF PULP AND PAPER INDUSTRY

3RD AMONG CANADA'S REVENUE PRODUCERS.

Necessary to Conserve Our Extensive Forest Resources for Future Generations.

There is little doubt but that the Dominion of Canada would to-day occupy a favorable and enviable place in world regard if all other of its multifarious industries were neglected and it did nothng else but fill the demands for pulp and paper. To-day many countries of the globe are coming to Canada for their supplies of these wood products, and the year has been one of surpassing importance for the pulp and paper industry. Month by month its prestige has increased, and nearing the termination of the year every mill in the country, working at high capacity, and effecting extensions at a rapid rate, fail to adequately satisfy customers.

The pulp and paper industry ranks third among Canadian activities in its annual revenue. As a producer of pulp and newsprint Canada takes second place to the United States, but the Canadian figures of output are ascending so rapidly that on the authority of the most reliable experts the time is in sight when Canada will lead the world as a newsprint producer.

After the depression of 1921 the present year has seen a remarkable expansion in the Canadian industry. For the year ending April 1st, 1922, pulp and paper exports had a total value of over $180,000,000, a figure exceeded only by exports of wheat and agricultural products. The Canadian newsprint mills now have a rated capacity of about 5,525 tons per day, equivalent to an output of 1,250,000 tons per year, which is double the output of any year prior to 1917. In addition Canadian mills are equipped to produce 2,500 tons of pulp daily. The combined output represents a daily cut of 6,000 acres of forest land.

An Invested Capital of $347,000,000.

The Canadian pulp and paper industry is, in fact, accomplishing so much that it is a difficult matter to keep accurate trace of it, and statistics which apply to-day may be entirely incorrect to-morrow. According to government figures for 1920, the industry employed an invested capital of over $347,000,000, of which slightly more than half was in the Province of Quebec. In the first six months of 1922, Canadian mills produced over 516,000 tons of newsprint as compared with 612,000 produced by United States mills. The Canadian newsprint output during this six months period is stated to have been 93.6 per cent. of mill capacity.

Whilst the volume of United States newsprint production has remained practically stationary at around 1,300,000 tons since 1913, Canadian production has increased from 350,000 tons to 812,000 tons in the same time. Exports to the United States have increased from 219,602 tons to 791,978 tons. The United States has, in fact, come to depend on Canada for 85 per cent. of the newsprint in addition to huge quantities of pulp. There is also an extensive trade being built up, and increasing rapidly, with the Antipodes and the Orient, and in this regard the Pacific coast as a pulp and paper area is fast developing in importance. Total pulp and paper exports for the month of June this year amounted in value to $10,534,896, and for July, $9,738,252. Production in the latter month was nearly double that of the corresponding month in 1921, though, due to lower prices, the value was only slightly increased.

Newsprint and Pulp Mills Full Capacity

Without apparent exception, towards the closing of the year, Canadian newsprint and pulp mills are operating to full capacity, whilst the extensions to existing plants under way, new plants under construction, and further establishments definitely assured for the near future have combined to constitute what is probably the most outstanding feature of industrial expansion in the 1922 period in Canada. Noted below are many of the extensions under way or proposed additions to the Canadian pulp and paper industry.

The headquarters of the Belgo Pulp and Paper Company have been transferred from Belgium to Canada with executive offices at Montreal. The new company has an authorized capital of $20,000,000, and will increase its output next year from 200 tons to 350 tons, making an annual production of slightly over 100,000 tons.

In February last the new newsprint mill of the St. Maurice Lumber Co., Ltd., at Three Rivers, commenced operations. This mill now has a maximum capacity of 340 tons per day.

At Point Rouge the Donnaconna Paper Company is erecting a new groundwood mill.

The Thunder Bay Pulp and Paper Company, at Port Arthur, is increasing its output of groundwood pulp to 100 tons per day, and installing a paper unit capable of turning out 60 tons per day.

The Premier Paper and Power Company, at Hartville, Nova Scotia, is to install a standard newsprint machine with a capacity of 60 tons a day.

Many Plants Projected.

The location at Three Rivers of the Wayagamack Company and the St. Maurice Lumber Company (the International Paper Company) will bring the district's potential output of paper to about 800 tons a day, or 240,000 tons a year, in addition to 120,000 tons of treated pulp, making this section of Quebec one of Canada's first pulp and paper areas.

Plants projected or under construction would seem to be almost as numerous as those already established and operating.

The Provincial Paper Mills are erecting a large plant at Port Arthur.

The British Columbia Minister of Lands recently announced that a pulp and paper plant would be established on Columbia Lake by an English concern.

According to its agreement with the Ontario Government, the Great Lakes Pulp and Paper Company is to spend $2,000,000 within three years on the erection of a paper mill at Fort William.

The Bathurst Company, Ltd., is installing a newsprint machine in its mill at Bathurst, New Brunswick, which, according to directors' announcement, will be in operation in the spring and employing 500 persons.

In British Columbia eastern capitalists have secured an option on a site at New Westminster for a paper mill, and a pulp and paper mill is projected for Prince George in the same province.

Certain American interests are erecting a plant at Elko, in the Kootenay district of British Columbia, where substantial limits of timber have been secured. Officials state that the first unit of the plant, producing 50 tons of paper daily, will be operating in the fall of 1923.

On the Pacific coast the Seaman Paper Company of Chicago and Vancouver interests are reported as being about to build a paper mill within 100 miles from the great port.

Michigan interests are said to be negotiating with the city of Kingston, Ontaro, with the object of building a pulp and paper mill in the old capital.

Activity from Coast to Coast.

All over the country from coast to coast, this extension to the Dominion's premier industrial activity is evident. Especially significant is the development on the Pacific coast. Pulp and paper is being manufactured there, and being shipped down to California and other Pacific coast states, as well as to Australia, New Zealand, Japan and China. That such extension is urgently needed in that region would seem to be evidenced in the fact that Oriental buyers have placed large orders with firms in Three Rivers in Quebec, and that steamers have this summer loaded there for the Antipodes and the countries of the Orient.

There can be little doubt but that the time is almost in sight when Canada will leave the United States behind in pulp and newsprint production, and assume the leadership of the entire world in this regard. This she only does through her possession of magnificent forests of tremendous extent. Forests are not inexhaustible, as other nations have discovered to their sorrow, and Canada is taking steps to see that her forested areas are reasonably conserved, maintaining their valuable supplies and retaining for the Dominion's pulp and paper industry the important place in economic affairs it occupies today, and is coming increasingly to fill. In this national work, for the greater part, the governments have the earnest and sincere co-operation of the various companies exploiting them, instigated not only by a national duty, but a realization that Canada is one of the few remaining lands with extensive forest resources, and that their continued prosperity lies in the intelligent manner in which they exploit and conserve their holdings.

A SPLENDID MEDICINE FOR THE CHILDREN

Baby's Own Tablets are the best medicine a mother can give her little ones. They are a mild laxative which quickly regulate the bowes and stomach and are guaranteed to be entirely free from any injurious drugs. Concerning them Mrs. A. D. West, Loreburn, Sask., writes:—"Baby's Own Tablets have given me more satisfaction than anything else I have ever given my children. They are easily taken; always work well and though I have given quite a few to my baby they seem to work as well now as at first, which is something other laxatives seldom do." The Tablets are sold by medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Wasn't Asked Again.

Johnny, who had been invited out to dinner, was admonished by his mother to remember his manners, and to speak in complimentary terms of the food served him. He heeded the instruction, and did the best he could under stress of embarrassment.

After he had tasted the soup, he remarked, boldly:

"This is pretty good soup—what there is of it."

He was greatly disconcerted to observe that his remark caused a frown on the face of his hostess. He hastened to speak again in an effort to correct any bad impression from his previous speech:

"And there's plenty of it—such as it is."

He is a small man who cannot act as a subordinate.

The man who has no tact always brags of his frankness.

Minard's Liniment for Garget in Cows.

PALE AND SICKLY GIRLS AND BOYS

Need All the Strength That Rich, Red Blood Can Give Them.

Youth is the time to lay the foundation for heath. Every girl and every boy should have plenty of pure, red blood and strong nerves. With thin, impure blood they start life with a handicap too great to win success and happiness. Rich, red blood means health, full growth, strong nerves, a clear brain and good digestion. In a word pure blood is the foundation of health.

The signs of weak, watery blood are unmistakable. The pale, irritable girl or boy, who has no appetite or ambition, is always tired out, short of breath and does not grow strong, is a victim of anaemia — the greatest enemy of youth. There is just one thing to do for these girls and boys—build up the blood with Dr. Williams' Pink Pills. You can't afford to experiment with other remedies, for there must be no guesswork in the treatment of anaemia. Dr. Williams' Pink Pills act directly on the blood, giving it the elements it lacks, thus developing strong, healthy girls and boys. Mrs. R. Kinch, Hepworth, Ont., tells as follows what these pills did for her daughter:—"I think it a duty to let others know the benefit which Dr. Williams' Pink Pills have been to my daughter, and I hope this may be the means of inducing some other sufferer to try them. She was weak, nervous and badly run down. She took medicine from the doctor but got no benefit, and finally she was not able to walk to school. I was advised to give her Dr. Williams' Pink Pills, which I did, and after taking them for a time she was restored to perfect health. I cannot speak too highly of these pills."

You can get Dr. Williams' Pink Pills through any dealer in medicine, or by mail at 50 cents a box or six boxes for $2.50 from the Dr. Williams' Medicine Co., Brockville, Ont.

Our Captain's Call.

Just once for each the White Ship touches port;
Though none behold the sails, nor sound is heard;
Yet while one waits,
Friend after friend goes silently aboard
The unseen ship and onward sails toward
The Golden Gates.

We trust the future in Thy hands, O Lord;
We who draw near unto this feast of Thine,
Given for us.
Kneel there, and pray, and take Thy Bread and Wine,
Find in Thy Sacrament the Love Divine
Upholding us.

The presence of our Saviour nearer seems;
And heaven and earth closer to blend and shape
Our destiny.
Faith, love, deep peace burn strong the while we wait
Our Captain's call to sail—or soon or late—
Across the sea.

She Got the Job.

Mr. Sharp was engaging a new typist.

"Chew gum?" he asked.

"No, sir."

"Gossip over the phone or talk slang?"

"Never."

"Flirt with the clerks when you're not busy?"

"No."

He paused to think up some more questions, when the girl began:

"Smoke cheap cigars when you're dictating?"

"Why—er—no."

"Take it out on the typist when you've had a row at home and come off worst?"

'Certainly not!"

"Do you use forcible language when business is bad?"

"N—never!"

"Want me to get to work, or is your time worth so little that——"

"Look here," he broke in, recovering himself, "let's get at those letters!"

Wisps of Wisdom.

It is the fear-not, the worry-not, the fret-not man who wins.

If life is hard for you, try to make it easier for somebody else.

A man whose only motive for action is his wages does a bad piece of work.

High authority should be regarded as a high explosive—and handled with care.

What you earn is yours in trust only. It is what you do with it that really matters.

There are many eght-hour men with sixteen-hour wives who ought to unionize their homes.

The time and energy you devote to grumbling at another's error would often be sufficient to readjust it.

A great many people fail because they're so sure they are going to. It would be a shame to disappoint them.

Is your goal in life such that the reaching of it would win you a place in the hearts, the affectons, the esteem of others? Or would it please only yourself? If so, it wouldn't do even that.

MONEY ORDERS.

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

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WE REQUIRE PARTIES TO KNIT for us at home, either with machine or "by hand"; write for information; send postage. The Canadian Wholesale Dis. Co., Dept. A, Orillia, Ont.

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CHOICE SILVER BLACK FOXES, pups, adults. Reid Bros., Bothwell, Ontario.

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BELTING OF ALL KINDS, NEW OR used, pulleys, saws, cable, hose, etc., shipped subject to approval at lowest prices in Canada. York Belting Co., 115 York St., Toronto.

Health Endangered by Pollution of Air.

Each day we breathe thirty-two pounds of air, while we take only [illegible] pounds of water and food into our systems in the same period of time. Notwithstanding that preponderance of air consumption, tens of millions of dollars are spent annually to prevent the adulteration of food and water, while comparatively nothing is spent to prevent the pollution of the air we breathe.

Minard's Liniment for Distemper.

Canada's Trees.

In Canada there are approximately 150 different species and varieties of plants reaching tree size. Only thirty-one of these are coniferous, but the wood of these makes up 95 per cent. of this country's forest products, and the trees themselves cover even a larger proportion of the potential forest area.

INVENTIONS

Send for list of inventions wanted by Manufacturers. Fortunes have been made from simple ideas. "Patent Protection" booklet on request.

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Use Cuticura and Have Lustrous Hair

Regular shampoos with Cuticura Soap will keep your scalp clean and healthy. Before shampooing touch spots of dandruff and itching, if any, with Cuticura Ointment. A healthy scalp means thick, glossy hair.

Soap 25c. Ointment 25 and 50c. Talcum 25c. Sold throughout the Dominion. Canadian Depot: Lymans, Limited, 344 St. Paul St., W., Montreal. Cuticura Soap shaves without mug.

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