Lave

J. S. McKinnon

Eclipse Facts. An eclipse of the sun is one of the simplest things imaginable. It is caused by the moon coming between the earth and the sun when they are

on the same plane. There are three kinds of eclipsestotal, partial, and annular. The partial eclipse is when the meon only passes before a part of the sun; a total one is when the moon covers the whole of the sun from view; and an annular one is when the moon, being further Carrot-"is he very strong?"

WHAT'S THE MATTER

DICK ? ARE YOU WORRIED

ABOUT YOUR BUSINESS ?

from us and appearing smaller, leaves

a ring of light outside its own disc.

PREPARING THE CAR FOR LONG 11. Oil and grease gun. 12. An extension luggage carrier. "With the touring season well on 13. A roll of tire tape and a couple its way, motorists should not embark of good, substantial straps.

on trips of any length without first 14. A Guide Book. making sure that the car is mechan- And if you are fortunate enough to ically right," is the advice of an ex- bave a small baby, the new style of port. "This does not mean that your baby hammocks take up very little car should have a general overhauling room and are a great comfort when

before starting, but if there have been touring.

any little noticeable (not imaginary)

"Tires are usually the bugbear of

the manuscturers. Don't run on

YOU NEED THESE THINGS.

spark plus intensifier.

3. Two blowout patches.

5. A few extra bulbs.

10. Extra fan belt.

4. An air pressure guage.

7. A pound of cup grease.

6. Automatic windshield cleaner.

can of Three-in-One lubricating oil.

9. A package of wiping cloths.

irregularities existing, consult a good PRACTICAL PARAGRAPHS. mechanic. Don't judge the condition Too Much Clearance-When the inof your car by the mileage it has cov- take valve tappet has too much clearered. The number of miles registered ance it closes too early for the engine on the speedometer of some cars may to absorb a full charge of fuel. The be near the 500 century mark, yet the result is that the engine on full throtcondition than some showing 50 or 70 part way open. On the other hand, peans were pouring into Western Canada. when the clearance is insufficient, hot "Careful and systematic lubrication gases leak through, burn out and is always necessary, but he sure your leave the valves and seats pitted, car is well lubricated before starting fercing frequent regrinding. It may

on your trip. Be guided in the lubri- even be necessary to resurface. cation of your car by the lubrication Wheel Alignment-Whenever the car has suffered a bump of any kind, overlook a single point of lubrication a crash against the curb, or anything Try a little exepriment. Fill one shown on the chart. It appears to be of the sort, the wheels should immecommon practice to inbricate what diately be tested for alignment as a salts have been extracted, and another seems to be the most important places, bang of this kind is quite enough to with river water. Now taste them.

by with this during town or short dis- which will lead to excessive tire wear. tance driving, but by no means take Novel Tool Rack—A very ingenious for all co-called "fresh' water to tinged when touring. You cannot tool rack for flat tools may be made foretell what might happen if a brake by boring a number of holes in a shaft should stick or a steering con- board, each hole being just large enough to take the head of a clothesan extended trip. Your car should be the holes and the cleft ends are used pin. Clothespins are then driven into as spares. Keep your tires inflated, driven through their heads and into at meal times.

partly inflated tires. This breaks the ing dirt, metal, dust, etc., from used accumulated. The heat of the sun | Without a moment's hesitation the Oil Filter-As a means of separatcasing and the increased friction genoil, the filter, which may be made in evaporates the water of the ocean, but youngster chose a roll; but when the erates more heat. For proof of this, the following manner, will be found this only serves to make the sea more food arrived he seemed to cast a longplace your hand on a properly inflated very efficient: Fasten a piece of mus-salty, for the sun does not suck up any ing eye on the scone. tire and on one under inflated after lin or cotton cloth to a metal or of the salts. a drive of fifteen miles or more and wooden ring large enough to fit over the top of a can, drum or other vessel. The cloth should be left a little slack. and into the shallow bag so formed a

oil to be filtered is poured through and 2 Two catra spark plugs-one leaves its foreign matter behind in the good suggestion for easy starting: Chould the engine refuse to function Later, when we became more civilized, with the throttle wide open the trouble beads made of wood carved into fanmay be overcome by giving the crank 8. A can of hand soap and a handy a turn or two with the throttle wide open and the ignition switch off. Then

crank the car with the throttle partly closed and the ignition on. A Medicine Mine.

per, or lead, but in the United States has an interesting origin. In olden there is a unique mine which produces | times, as a person repeated his prayers | medicine. It is situated on one of the they were counted by ticking off one salt-giving hills of the State of Texas. by one a string of small pierced balls The first settlers found a hole in its which were threaded together, and in side where the native Indians had dug | time thes balls came to be called

out the mineralized soil, which they beads. called "sour earth."

towns and medical aid, found that it tains 40,000 characters. was quite effective as a medicine. Some years later a company found the soil to be composed of salts of cal-

cium, magnesium, and sodium, besides some Iron, and manufactured a patent medicine from it. After being dug from the mine the earth is allowed to stand for some days in specially ventilated sheds, where it undergoes a form of oxidiza-

tion. It is then beiled so as to dissolve the salts, and is filtered to remove the The liquor is placed in bottles, Past President of the Canadian labelled, and finally sent off to the mar-Manufacturers' Association, who has kets to be sold as an excellent remedy been appointed director of Canadian for rheumatism, indigestion, and al-Exhibits at the British Empire Exhibi- most all internal disorders. It is also an effective antiseptic.



HANOVER.

Potato-"Yes, indeed. Strong as an



"NEW CANADIANS" ARRIVE IN WINNIPEG cars may be in a far better mechanical the forks as if the throttle were only their new homes in the west. It is reminiscent of the old days when Euro-A party of Swiss and Dutch immigrants arriving in Winnipeg en route to

Why the Sea is Salt.

Why should water in the sea be so salt? It is fed by livers, which bring down a constant supply of fresh water. But is river water perfectly fresh? tumbler with water from which all the ignoring the balance. You might get force them out of correct alignment, You will have no difficulty in distinguishing them. The flavor of salt in the for all so-called "fresh' water is tinged

with the salts in the earth. As streams and rivers run through the land, they melt away the soft pieces of the soil and carry them to equipped with the best tires in your possession, the poorer tires to be used made secure by a small wire nail the salt which appears on our tables

Seeds as Beads. Beads are one of the oldest witness-1. A spare laner tube with a box of quantity of sawdust is placed. The es to the vanity of mankind. The oldest beads were simply stones with holes through them, which, owing to their bright color or peculiar shape, Making Starting Easy-Here is a took the fancy of the finder, who threaded them on a strip of hide or fibre.

> tastic shapes were in favor. Some beautiful examples of both kinds can be seen in the British Museum. Uncivilized races have a passion for stringing together various objects as

beads. Human teeth, brightly-colored insects, seeds, and even whales' teeth, are worn in this way. Most of us think of a mine as pro- The word bead comes from "bede," ducing only such minerals as coal, cop- the old English word for prayer. It

The white men, being far from any A standard dictionary of China con- time when we were engaged.

Baking and Scraping. He raked and scraped Until he had saved The money for the seeds.

He raked and scraped A plot of ground For all the different breeds

He planted them.

Then raked and scraped To keep away the weeds. His neighbor's hens Now rake and scrape And have most pleasant feeds.

-Maurice Morris. ---

Like Mother Makes. A fond mother took her schoolboy son into a tea-shop. For ages past, salts have been wash- "Would you like a scone or do you

> Mother-"This is your roll, darling." the Hospital for Sick Children are Son-"Do you prefer the scone, each to receive \$10,000 and the Unimother, or would you-"

Son (Choosing scone)-"Well, moth-

roll ,dear-don't you want it?"



"Jack said you bored him." "I used to board him about half



THE LONG AGO As we journey to and fro, we old graybeards fume and fret; things grow fiercer here below, worse and worse, already yet; in the hallowed Long Ago things were different, you bet. Young folks hit a sober gait, and the night lights didn't glow; children took their lectures straight, for a lecture beats a show; people went to bed at eight, in the saintly Long Ago. On a shelf upon the wall stood good volumes in a row; moral tales and sermons all, things the people ought to know; scribes had brains instead of gall in the snowy Long Ago. But a young man I have bored with a talk along this line, says, "Oh, gaffer, you have scored things I thought exceeding fine, and you've told me how you soared in the blissful Auld Lang Syne. All the world was sinless then, you have often told me so; but I've heard from other men, relics of the Long Ago, that you'd find a boozing ken every hundred feet or so. Here's a street, oh, ancient wight, stretching out for verst on verst, and there's no saloon in sight, by the Demon Rum accurst; there's no bock beer sign bedight with a legend prompting thirst." Then I lean against a fence feeling hollow, weak and gray, for the youth is talking sense-all those dens are done away; and I bid him journey hence till I think up things to say.

The Sun and His Family

By W. R. Stokes, F.R.A.S.

To the dweller on this earth the sun our coalfields; forms the clouds by is the most magnificent, as well as the condensing moisture from oceans and most important, object in the universe. rivers; and causes winds, resulting in It is the largest body in the solar the waves which aerate the oceans. system-larger than all the planets put It is the sun which makes the earth together. This is necessary according spin once in twenty-four hours, giving

traction or Gravitation. Every atom of matter draws to itself 68,000 miles an hour, and, owing to the every other atom, and the larger the tilt of the earth, gives us spring, sumbody of atoms the greater the attract. mer, autumn, and winter. ing power. In order that the sun may To us the sun and moon appear alattract to itself every one of the plan- most the same size, but the diameter

larger than all of them put together. the diameter of the earth is 8,000 miles The sun occupies the centre of the and that of the moon 2,000. solar system and is the mainspring of If the sun were a great hollow ball, all the planet movements; by reason and the earth and moon could be of its attraction or gravitational pull placed in the centre of it in their re-

A Mystery of Nature. What is gravitation? That great discovery by Sir Isaac Newton is still a mystery of Nature. What it is, the means by which it acts, or why such What it does every schoolboy knows; 176 years to reach the sun. what it is, no one knows. The children of to-day may live to see this sec- away, the moon is only 240,000 miles ret revealed, and it is thought by many distant.

and tin are present in a gaseous state. family-planets, asteroids, comets, and The sun's heat sustains all animal meteoric systems-it is ever rushing and vegetable life on earth; gives col- onwards through space at a rate of or to flowers; has stored up heat in 700,000 miles a day.

The Toronto General Hospital and

by Dr. Banting. Mr. John D. Rockefeller, Jr., who Diabetes, recently announced that he would support the work by giving a sum of money to be used in the furtherance of the treatment of Diabetes with Insulin among the indigent. In making this donation to Toronto, Mr. Rockefeller is desirous of recognizing especially the home of the discoverer of Insulin, and the place where Insulin treatment has been first developed. While, speaking broadly, the purpose of the gift is to make possible the treatment of a larger number of indithe teaching of physicians in general practice in the proper method of employing insulin in the treatment of

to be placed at the disposal of Dr. advance in scientific and practical medicine in which you have shared so in the treatment of diabetes more clean and neat?"

increase its usefulness." ---Plenty of Room.

lionaire. "I guess you've noticed that,

bishop?"

"Yes, I have noticed it," replied the bishop gravely. go to church, don't you?" the million-

"Oh, don't let that keep you away,"

retorted the bishop with a smile. "There is always room for one more." Some tortured dog may be depend- pedestrians?" ent on your response to his pitiful "Yes; having run over a number of

to the power called the Law of At- us night and day. The sun causes the earth to travel round it at the rate of

ets it is necessary that it should be of the sun is 866,000 miles, whereas

the planets are kept in their proper lative positions, the moon could continue to circle round the earth inside the sun and leave plenty of room to spare. The sun is so immense that it could hold about 300,000 globes each

the size of the earth! An aeroplane travelling at sixty miles an hour, day and night, would, a force should exist at all, are ques- if such a journey were possible, take tions to which we have no answers. about 165 days to reach the moon, but While the sun is 93,000,000 miles

that it will be on the lines of magnet- What would happen if the sun went out? We should at once be involved The solar system consists of the sun in unending night, and, very soon, in and all the heavenly bodies that move eternal frost. All seas and rivers handed them in chunks, as at motionaround it and are controlled by its would be frozen, and all life on the picture shows or certain kinds of lecgravitation. The sun is a great ball earth would speedily come to an end. tures, they would take it. Whatever of fire, and the part of its surface that Few of the discoveries made by as- learning can be imbibed or inhaled is visible to us consists of clouds of in- tronomers are more surprising than without conscious effort on their part candescent- metallic vapor. Its sur- that of the sun's motion through the they would accept. But to go out of

Toronto Institutions Benefit by Gift of Mr. John D. Rockefeller, Jr.

versity of Toronto the sum of \$5,000 Mother-"You said you wanted the for research in insulin to be conducted

er. I didn't know scones were like has watched with keen interest the this. I thought they were like those development of Insulin Treatment of gent diabetic sufferers and to assist diabetes, the disposition of the moneys | The Canadian Editor of the London | learned. He did not seem to be speakreceived is left to the discretion of Times, who has started the organiza- ing from any passionate infatuation the governing board of each recipient tion of a society, of which he is secre- with his own art of words. He eviinstitution, to be used in the manner tary, for the collection of data con-dently felt that what he had to say

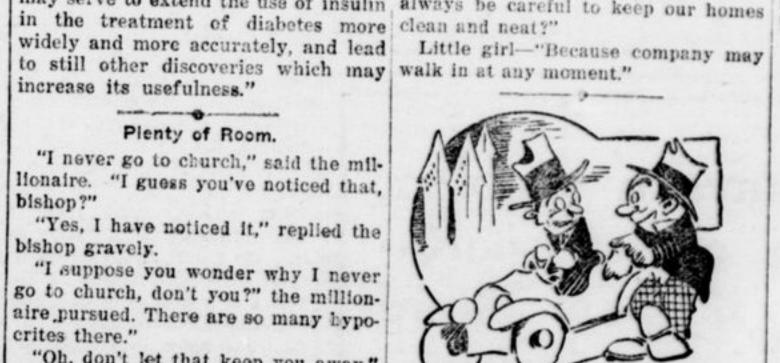
in which it can best further the treat- cerning Canadian history in Britain might interpret life assistingly for He ment of the disease. The gift of \$5,000 and France. Lady Minto, wife of a some one else; and so he spoke. to the University is to be added to former Governor-general, and the In listening to oratory, the first the "Banting-Best Fund" recently Duke of Connaught, are co-operating. question we raise is that of the speak-| Banting for further researches in | A land agent in the great Northwest | feels and knows that here is but a insulin. In sending the gift Dr. Simon had just described the wonderful rich- hollow, fragile and reverberant shell, Flexner adds, "I am very happy to be es of the region. Some one protested, uninhabited by substance. He listens the medium of transmitting this gift but he defended himself with a para- to one who, no matter how adept a mentioned, and I wish to congratulate "The truth is so wonderful that it as the end and not the means. He you and the University on the great takes a whopper to express it!" conspicuously. I hope that this gift Teacher of hygiene-"Why must we may serve to extend the use of insulin always be careful to keep our homes

"I never go to church," said the mil-

"I suppose you wonder why I never aire pursued. There are so many hypocrites there."



"You say he's very thoughtful of



And to the Gracious Giver, Thankful hearts we raise.

The noise coming from upstairs was appalling. Mother, making cakes in the kitchen, at last could stand the commotion no longer. Hastily washing her hands, she started to mount the staircase when she found that the ncise was proceeding from the nursery. She went up the rest of the flight, and

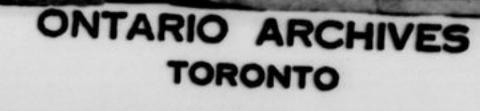
we're going to play Daniel in the lions!











ligence Service of the Department of the Interior at Ottawa, While Ontario, being an in-

Natural Resources

Bulletin

The Natural Resources Intel-

land province, has no sea fisheries, the great lakes provide a very large output of many species of edible fish, as do also the many interior lakes. Ontario in 1920 produced 38,501,533 lbs. of fish, valued at \$2,691,093. Herring provided the largest output, being 13,143,510 lbs., with whitefish next, with 6,803,720 lbs. Trout were taken to the amount of 5,025,109 lbs., blue pickerel 3,379,524 lbs., and coarse fish 3,379,524 lbs.; white pike, dory, perch and carp were over one million pounds each. Of the provinces having no sea fisheries Ontario is far in the lead in fish production.

Mere Talk.

It is not necessarily a mark of

strength to be silent. There are those who are still because, to save their lives, they could not think of anything to say. By nature empty and dull, they found it too laborious to "improve" their minds. If they could sit face is so hot that iron, nickel, copper, celestial spaces. Followed by its their obese and vegetating selves in quest of experience and fact would not appeal to them. They will shuffle through a torpid life to an insipid eternity somehow. Meanwhile, the whole of the real business of living goes by them like a procession with a band, and they have no part in it. What is the use of them? They might as well not be.

Though there are plenty of men of action who are professionally tersemen whose stories we long for and never get-most of the good talk issues from those who are in the thick of things and are making them move. Of course, there are finicky idlers, who fancy they are artists, like the author who boasted that he spent the morning putting in a comma and the afternoon taking it out. If that meant infinite patience in a genius, the rest of us might bow our heads in acquiescence. But in this case it only signified the decadent trifling of an elegant idler, whose fastidious product am-

ounted to nothing when it was done, The chatter of such genteel loafers does not sighify. What really matters is the formulated sense in speech of men in sober earnest, with all they have and are in everything they do. Willingly do we listen when one talks "who saw life steadily and saw it whole." He went somewhere (though physically he may not have stirred)

er's sincerity. If the man is not in misses the tremendous moral impact of a conviction, so possessing the soul of a man that it must find utterance and reach the inner room of another's

Summer.

Summer, Queen of Seasons, With her smiling train Comes in radiant splendor O'er the land to reign. Following in her pathway

Myriad charms are seen,

Flowers of varied sheen.

Blue skies, gl. rious sunshine,

Fragrance-laden breeze,

Jubilating streamlets,

Orchards' pleasant fruitage, Fields of waving grain. Full of joy and pleacure, Are the long bright days

-Mrs. A. F. Calder.

----An Exciting Game.

on reaching the top she shouted: "Children, children, what are you doing? What on earth is all this noise about?"

Little Willie's eyes were bright with

"We've had grandpa and Uncle Henry locked in the cupboard for the last hour. When they get a bit angrier

excitement as he replied:

duced by a queen bee in one seas m.