Out in the mid-Pacific is another island, Fanning, which will appeal to the person of more sociable habits. It is of atoli formation inhabited by some who doze and eat and doze again in the equable climate and only bestir themselves when the larder is empty. Fish are plentiful and duck and snipe abound, which, taken with tropical fruits, go to make up the

In the British Empire the loneliest spot is said to be Tristan da Cunha, a volcano-formed island in the South Atlantic which rises to an altitude of

There are only 119 inhabitants on the island living in its twenty-two stone thatched-roofed houses. Their Their wood is that which drifts in to them on the tide, they raise potatoes as the food staple, they make their moccasins of soft bullock hide, they obtain a few clothes from an occasional ship which calls there in exchange for geese, fowls, milk sheep, eggs and cured albatross and penguin skins, and for months in succession they do without bread, tea, coffee and sugar. The people are fast deteriorating in type

tan da Cunha is St. Helena. This rug-ged bit of earth is 1200 miles from the nearest part of the African coast. Be-fore the days of the Suez Canal it had some commercial importance, but to-day its excellent harbor shelters vessels only while they are coaling. Its 10,000 inhabitants enjoy a most equable climate, the mean temperature ranging throughout the whole year from 65 to 71 degrees.

Nauru, though only twelve miles in circumference, with its many beauti-tul lagoons which mirror its tall coral pinnacles and cocoanut palms in lifelike perfection, is a treasure house of millions of tons of rich pho ime. It is perhaps one of the most livable of the Pacific islands, as the promoters of the phosphate industry have established free laundries, ice, electric lights and refrigerators for the preservation of fresh foods. Employees have their own homes and there is an almost endless succession of social functions to keep them alive and happy.

If there is a skeleton in your closet, rest assured that the few inhabitants of Easter Island, 2300 miles off the coast of Chile and the eastermost inhabited Polynesian island, will make no effort to bring it forth into the light, as one traveller says of them that they are not curious enough to turn around on the dock to look at the boat that calls there about once in eighteen months. Gigantic statues. stone houses and sculptured rocks, re lics of an ancient people, are found or

#### The Worlds Highest Bridges.

Work has been started on the world's biggest bridge. It will span the Hudson River from New York to Jersey City, and its total length will be 8,300 ft.

The central span will be 1,000 yards, suspended from two steel towers, each 300 ft. high, by steel cables 5 ft. thick. The bridge will carry eight railway lines and two footpaths, and its construction will cost something like £40,000,000.

Although, when completed, it will be the biggest and most solidly-constructed bridge in the world, it will not be by any means the longest. This distinction belongs to the one built by British engineers over the river Ganges at Sara, in the Bengal Presidency of Covering a distance of about fifteen miles, this bridge cost \$20,000,

Next to it, in point of length, comes the Gernavoda Bridge, oven the Danube, which is nearly twelve miles long, about the distance between Waterloo and Surbiton. It was designed by a Frenchman, built by an Englishman, and bought by the Roumanian Government in 1882.

The world's loftiest bridge is that spanning the Zambest River, in South Africa, close to the Victoria Falls. It is 400 ft. above the river-bed.

### Here's the Answer.

Little Girl (looking over newspaper advertisements)—"Mamma, why do all these boarding houses object to

Fond Mamma "I'm sure I don't know. Go and see what the baby is howling about, and tell Johnny to stop throwing things at people in the I'll take it away from him."

#### What's the Use.

learning to play the piano?"

## Saving Lives by Seconds.

A "Lightning Surgeon"-to use the title conferred upon him by his colleagues-is at work in one of the great London hospitals.

His time for a normal case of appendicitis, for instance, is six minutes from start to finish of the operation, as against the fifteen minutes reckon ed good time in the profession gener ally. This implies an enormous diminution of the ordinary risks run by the subject, and a corresponding increase in the chances of recovery. Scarcely less advantageous is the lessening of the strain of suspense which much in-evitably be endured by assistants, nurses, and others present.

Those considerations apply with even more force in the case of operations protracted, ordinarily, to the extreme limits of the patient's endurance, lasting perhaps two to two and a half hours. Seconds saved in every manipulation of these more intricate cases amount in the aggregate to a total which represents the difference between life and death.

The whole business, say those qualified to know best, is a matter of almost miraculous mastery of the technique of the knife

#### Home of Two Apostles Discovered.

Excavations made under the church of San Sebastiano on the Appian Way have brought to light the most ancient Christian monument yet discovered, says a despatch from Rome. It consists of the remains of a house which, judging from inscriptions on the wall, St. Peter and St. Paul lived when they were in Rome.

The excavators now hope to solve bodies of the two saints were hidden tians to steal the bodies when the ors.

## Penniless Millionaires

about a big city, starving and home-themselves extremely well, men who speeds that are almost incredible.

South African newt, canea the about a big city, starving and home-themselves extremely well, men who speeds that are almost incredible.

rate, Mark Twain proved to be one, for that his only cash assets were \$10 in years after he wrote that tale, a mil-

millionaire, was staying at an hotel in millions. One trading company which himself. Brussels, when he found that he had he organized had a capital of five run short of cash, and had nothing but millions.

thing to do with the cheque. Mr. He is only one of many. Some are Brandreth thereupon left the hotel to men of straw, who pose as millionaires would guess from the conversation of

police, but since he had no papers, denly called upon to pay big sums in they refused to believe him, and placed cash, then comes the crash. him in the St. Gilles Prison, on a A man may be a millionaire on charge of vagrancy. And there he paper, yet be worrying his soul how stayed for three long weeks, until to pay the month's rent, or the desubles from New York released him. mands of the income-tax collector,

a cheque for a very large sum.

The hotel-keeper asked him to pay up or leave, but refused to have anything to do with the cheque. At the large transfer is to do with the cheque.

find a friend who, he knew, could without ever having owned a hun-identify him. On the way he managed drodth of that sum. They carry on to lose his identification papers, and simply by brag and bluff. But there when he got to his journey's end it are others, good if bold business men, ageous experiments that we are now s only to find that his friend had whose whole capital is constantly in- able to use radium to cure diseases vested in all sorts of enterprises. If previously considered incurable. Coming back to Brussels, Mr. Brandreth spoke of his dilemma to the

## and the worst is yet to come



## **SOLVING NATURE'S WONDROUS SECRETS**

#### NAMES THAT WILL LIVE FOR EVER.

#### Scientists and Physicians Devote Their Lives to Promote Welfare of Mankind.

Most people know the names of some of the scientists who made the great discoveries of half a century ago and more; but few could say much about those who are working to-day.

Yet the discoveries now being made in medicine, electricity, chemistry, and the thousand and one other departments of science are far more wonderful than those made in earlier

Who are the great scientists of to

We shall not go far wrong if we begin with the famous Englishman, Sir Joseph Thomson. Born in 1856, he went, at the age of twenty, to Can bridge University, \_ where he took a particularly brilliant degree in mathe matics. Since then he has remained at Cambridge, working ceaselessly at the problems of chemistry and electricity.

Every important modern electrical indertaking owes a large measure of its success to Sir Joseph Thomson. In 1906 he was awarded the Nobel Prize for Physics, the highest honor that can fall to any scientist.

#### Another Nobel Prize Won.

The same prize was won in 1908 by another Cambridge man of an entirely different type-Sir Ernest Rutherford, street, and make George and Kate the vexed question of the locality of shaggy, Newfoundland dog of a man. is a household word. His work so the temporary tomb in which the He hails from New Zealand, where he far has been to investigate the personal process of contain glands of the contain glands of the contain glands of the street of contain glands of the contain glands of who has been described as a great, was born in 1871, and he obtained a to foil the attempts of Oriental Chris- degree with the highest possible hon-

Though he has done splendid work in charge of as a chemist, he has specialized for glands whose development is essen-Doris (aged seven, just going to her the excavating expedition, believes the last few years on radio-active submusic lesson) "Mummy, they only that the tomb will be found soon if stances and electricity. His work has glands do, and how they do it, were grease, so the job had to be done over in Heaven, don't they?". his funds hold out. Archologists are always been marked by the originality mysteries. In the lower part of the suggesting that a world wide subscrip of his methods, and we owe to him a front of the neck is a gland called the

Mark Twain once wrote a delightful "Millionaire" in these days is a very story, called "The \$5,000,000 Bank lote," in which he described the people who live in expensive flats or miserable lot of a man who wandered botels, who dress perfectly, and do have the people who live in expensive flats or most minutes particles moving at South African newt, called the axo-

other money, and no one who could do so would change the big note.

It has often been said that novelists the daily papers quite lately. A certain trish-American financier had to Professor Curie, of Paris, whose brilding of the creditors. liant career was cut short by a street years after he wrote that tale, a mil-Honaire, a countryman of his own, actually got into a similar trouble.

The bank.

Yet this man went to England a few years ago with a big fortune, and has

Yet this man went to England a few years ago with a big fortune, and has

After his death, devoted herself to car
after his death, devoted herself to car
light.

#### Famcus Woman Scientist.

Mme. Curie, who is a Pole by birth, is recognized everywhere as one of the cleverest scientists of the day. this slight, grey-eyed little woman They carry on that she is one of the world's greatest Are you worsted in a fight? benefactors. It is owing to her cour- Are you cheated of your right?

Radium does not give up its secrets without taking toll of those who pry into them. The rays it emits have a Does your work get into kinks? very harmful effect upon the human Are you near all sorts of brinks? if it is continually submitted to their action.

Like radium, the X-rays are a source There's no recipe like laughter, of constant danger to those who are

working upon them, for if they fall for any considerable time on living flesh they kill the tissues of which it is composed. Investigators know the danger to which they are exposed; but that does not deter them in their work for humanity.

Within the last few weeks X-rays have claimed two victims-Dr. Ironside Bruce and Dr. Leray. These men willingly gave up their lives in order

to help cure the sufferings of humani-ty. Each was experimenting with a new and improved apparatus, whose perfection meant an important advance in the great science of healing. Each felt the warning symptoms which told him that if he persisted in his work he was doomed. Yet neither hesitated for a moment; they performed their task and laid down their

Another great name amongst English doctors is that of Professor C. S. Sherrington. You would not find his great book easy to read; its very title "The Integrative Action of the Neryous System"-is quite sufficient to frighten most people. But every time ou pay a visit to the doctor you are benefiting by Professor Sherrington's services. He has made a particular

#### study of the human brain The Miracle Gland

His researches have brought to light all kinds of previously unsuspected facts about the way in which the nervous system acts upon the health of the body. They have given medicine an entirely new outlook. sides helping the doctor to deal with the more ordinary ailments of mind and body, his work is of incalculable value to those who suffered, or are still suffering, from the effects of shell-

Among the youngest men of science at the present time in England is Mr. Julian Sorel Huxley, a worthy grandson of the great Huxley whose name is a household word. His work so culiar action of certain glands of the body

Medical men have known for years Doris- "Then what's the use of my tion be taken up to make completion great deal of what we now know thyroid, which has long puzzled those who sought to discover its purpose. But the greatest of his triumphs is In some cases the gland became en-But the greatest of his triumpns is his investigation of the nature of electricity. He has succeeded in answer- goftre. In others it did not develop casings in this respect are like men

about a big city, starving and home-less, though all the time he had in his pocket the biggest banknote ever printed, one for five million dollars.

You see, the poor fellow had no a newt. The purpose of the gland was covery was of tremendous importance. Already it has enabled us to deal with cases of undeveloped minds and bodies, and we shall make still more use of it in the future.

#### Laugh It Off.

Laugh it off. Don't make tragedy of trifles, Don't shoot butterflies with rifles-Laugh it off.

Laugh it off. If it's sanity you're after

Laugh it off.

Patching all tubes every three months, removing with gasoline all old patches, and sticking on new fabric patches on all vents, will add dollars' worth of service to the casing, as well as to the tube.

It cost me \$7.25 in each for brake lining and a ball lining a ball lining

lining, and a half-day's time putting the lining where it belonged, to learn that in stopping a truck it is not ab-

in fact.

When I see a man coming toward me driving an automobile, I am not half so much concerned whether he

has non-skid tires as I am whether there is a non-skid man at the wheel.

If he acts like skidding, my move is over the fence and out.

Nail punctures in casings let in water and mud. These punctures should be plugged with gum-gum and covered with a patch of fabric before putting the tube in again for inflation. This prevents the seeping of soft mud, and the tire wears longer.

Small cocoa mats for running-boards on autos save floor mats and

boards on autos save floor mats and carpets. These mats can be tacked to the running-board and will prevent much dirt being carried to the car floor whenever you get in. They can be taken off, cleaned, and then put

Under-inflation ruins tires. A soft tire will not bounce like a full one, and more readily invites rim-cutting and gashes or cuts that may go clear through the casing and tube. The soft tire also takes more gasoli ne and makes the engine work harder. can prove that the engine works hard under these conditions by letting out the air completely in one tire and then driving the car for a quarter of a mile or more to note the effect on the engine. Keep the tires inflated to the pressure indicated on the casings. Use

pressure gauge. Weak valve springs: When the mo tor of an old car seems to have lost its pep, and numerous remedies have been tried without success, examine the valve springs. These, especially the exhaust springs, may have lost some of their tension, allowing the valves to remain partially open when firing. This will naturally result in a loss of power. If not convenient to replace the old springs with new, which is the best thing to do, the trouble may be overcome by removing the lock-pins and washers and adding one or more washers to each, thus shortening the spring length and increasing the tension.

Spring bearings are very much neglected on the average car or truck. The man who has never thought of these bearings as being important, should examine his car or truck and broken. Missing rebound clips may see if new bushings and toggle bolts result in broken main plates. are not needed. If there is as much as an eighth-inch of play, they should certainly be replaced. Often replacing the bushings alone is sufficient. In renewing bushings, the mechanic work)-Did you ever see such glorishould be careful to see that grease holes are drilled in all bushings and set; such a flery dancing sun break; that these correspond with grease-cup ing its way through these sulphur-colopenings. I recently had occasion to have a garage man replace the ushings in the at my expense.

#### Old Age Signs.

When numerous small slits and cracks appear in a tire it is a sign and women. Although they don't get gray-haired, they do become wrinkled and cracked, often chalky white in

appearance.
The fabric in an old tire gradually becomes brittle and hard, so that it breaks easily. Like the bones of old people, it is difficult to knit. The tire surgeon's work increases in difficulty with the age of the casing.

Those whose strength is conserved to not a recommendation.

that in stopping a truck it is not absolutely necessary to apply the brake best way to preserve their usefulness each time. Coasting to a stop is a wise practice.

Good tires for trucks and autos are quently "doll them up," painting the more important than low prices. Get the most service for your dollar. This same is true in buying belta, cylindered, brake limings, bearings—anything, Cocking willy the small cracky appears. do not so readily show their age. The

Ordinarily the small cracks appearing on the side walls do little harm unless they penetrate through the rubber covering to the fabric underneath. It is well worth the motorist's attention to have his casings regularly

Tires age factest when lying around.
They are kept in best condition in actual service. If it is necessary to store them they will retain their life longest in an even and moderate tem-perature and light.

#### Motor Truck Tips.

Investigate Immediately — Truck drivers should be taught to investigate any unusual hoises immediately they are heard. Neglect or delay may make later investigation useless. For instance, an immediate investigation of a noisy differential, followed by a thorough cleaning and filling with fresh oil, may save the cost of new gears and bearings. And this applies in a hundred other parts of the

Spring Wisdom-To repair a broken valve stem the fittings should be removed and the stem slipped back in the tube. Now make a small hole in the tube a short distance from the valve stem, bring the valve out again through this hole, and in so doing the fabric in the original valve hole will not be injured. The small cut formerly occupied by the valve stem can be

vulcanized easily.

If the valve is battered so that no fittings can be removed the valve can be sawed off across to the cut with a hack saw and the nut can then be easily taken off.

Repair Broken Valve Stem-When a spring plate breaks it is important to have it repaired or replaced at once by a skilled spring maker, not by any chance blacksmith. Often a break in a plate occurs at a place where it does not immediately cripple the entire spring, but it is obvious that the breaking of one plate throws extra work on the other plates, which may in turn suffer breakage. If the intermediate plates should break at the centre bolt, the spring clips should be tightened down until it is possible to have the break repaired. often rebound clips are loose or

#### Often Seen It Before.

Impressionistic Lady Artist (proudly to Farmer Hick, watching her ous colors; such a blood-tinted sunored cloude?"

Farmer Hicks-"No, lady. I ain't

#### Her Memory.

Servant (returned from an errand) "Please, ma'am, I couldn't get it." Mistress-"Get what?" Servant-"They said they didn't

keep it, ma'am." Mistress-"Keep what?" Servant-"What you told me

fetch, ma'am." Mistress-"What was that?" Servant-"Dunno, ma'am-I forget."

# On Appreciating Our Privileges

frog, passes through a tadpole stage in its young days. Huxley found that if he dosed tadpoles with extract of there is one advantage in a few weeks there is one advantage in a few weeks cathered the possibility of the content of t newts with amazing rapidity. On the of lakeside life which is not often perceived the fact and hastened other hand, if the thyroid gland of a mentioned, namely, the nightly use of cure pessession of the tumbling coal-oil lamps and the daily task of streams. cleaning and filling them. A short course in coal-oil illumination is bound to show by contrast the great course in coal-oil illumination is considered to argue incessantly against the bound to show by contrast the great convenience and efficiency of electric and to urge the necessity of

> about them. They turn taps and no cheaper than they are to-day in press buttons in calm confidence that New York State, and in California, the consequences of the action are as Under private ownership dividends much in the cearse of nature as the are of prime importance. sunrise or as the phases of the moon.
>
> Then they encamp upon a lonely sandtric System eliminates all dividends bank, just beyond the outskirts of no- and gives a perfected service at cost, where, and begin to remember. When the holiday is over, the prospect of going back to work is less dreary be-floods his rooms with radiance is paycause of the ordinary comforts of ing about \$1 per month for that high

great work done for the people of this ing machine, shares with her husband an obligation of gratitude to the men suaded to enter upon a course of prac-tical conservation. When inventors which first pledged their credit to make the dream come true.

Summer-cottage existence has many had demonstrated the possibility of

In the city or town, people get used to their comforts and often forget all

ome.

There is a distinct advantage to the vacuum cleaner humming, and percitizen in thus being reminded of the mits a small motor to rock the wash. em. By the advice of resolute, far- who fought for "Hydro" in the early seeing leaders, Ontario folk were per days, and to the twelve municipalities