We know that there was a time when lizards and turtles were as big as men—in fact, several times bigger—for the skeletons of these huge creatures now adorn museums. But has there ever been a time when insects were as big as men, and what would happen if that time were to come again?

were as big as men, and what would happen if that time were to come again?

M. Plateau, a French scientific man, once undertook to measure the strength of a beetle. He arranged a paste-board tube, rough inside, with a bit of glase set into it, against which the beetle could push in trying to get out into the light. This glass plate was connected with a tiny instrument made to measure force, like those which tell how many pounds a man can lift, but, this one, of course, was the right size to fit the beetle. It has been found right size to fit the beetle. It has been found that a beetle can draw 40 times its own weight, and if some beetles were the size of a cart horse, each one could haul something like 150,000 pounds.

The pyramids are only about 450 feet high, and the highest building in the world is about 900 feet, about 150 times the height of an average man-but, the termitenests of Africa are a thousand times the height of the little insects that build them. If men could build as the termites do, or if termites were the size of men, we should have a city the size of New York or Chicago all under one roof, with its highest windows more than ten times as high as the Washington monument.

The locusts that come in swarms every few years and eat up all the crops can travel a thousand miles in one season, and any man who could get over the ground as fast as they do would be able to go around the world several times while the average tourist was cross-

ing the United States by express.

The maggot of a little black fly has been seen to jump out of a box six inches deep, and if a man could jump like that he would be able to stand on the ground and jump to the roof of a ten-story building without taking a running start. A flea can do better than that. It can jump 200 times its own length, which for a man would be over 1,000 feet at a jump. At that rate a man would not need to take the street cars to his office. He could hop there in four or five jumps to the mile.

The ordinary house-fly can go five feet in a second, and when scared it can travel several times faster than that. The fly is less than half an inch long, so this means that it can go 120 times its own length in a second, or that, if it were a man, it could fly 600 feet a second, and over 30,000 feet, some five or six miles, every minute. No aviator has done anything like that.

Insects, moreover, are very hard to kill. Grasshoppers have been known to live after being put in boiling water, and a mite has been found alive after 11 weeks without food or drink, stuck to the head of a pin. "Walking sticks" and other insects can reproduce lost limbs. If a man could do that he could have a leg or an arm cut off, and a year or so later have a perfectly new one in its place.

If men had insects' appetites there would be lively times in this world getting enough to eat. A dragon-fly has been seen to eat 40 s, which is much as if a man sat down to a hearty meal of a whole roast chicken, vegetables and pie, ate it up in five minutes, then ate another, and kept this up during an entire afternoon. A chicken is about the same size in proportion to a man as a house-fly is to the common "darning needle," and we do not eat it bones and all at that.

The babies of the insect world have still bigger appetites. A silkworm grub eats in its first month of life what would be 300 tons of food, if it were a human baby, and increases 9,500 times its own weight. The average baby weighs about ten pounds, so that if it ate in the way the silkworm baby does, and grew as fast, when a month old it would be bigger than any giant you ever read about in a fairy

No wonder insects do so much damage to trees and crops. It is usually the baby insects, the grubs, that do the mischief. In 1773 there was a plague of beetles in the Hartz mountains, and 80,000 grubs were found on one single tree, while the beetles destroyed more than two million fir-trees in those mountains alone. In Germany, without going outside that country to look for injurious insects, one can find 650 kinds that eat the crops.

And there are so many of these baby insects! In one single season on the island of Cyprus, which is not a very big island, as may be seen by looking at the map, the people collected and destroyed 1,300 tons of locust

Insects all have large appetites, although the dragon-fly's is one of the worst. A dragon-fly will actually stay quiet on a pin and make no struggle so long as it is constantly fed, and one naturalist actually cut a piece off the insect's tail and fed it into the hungry mouth! It is not written how long he kept on with this peculiar feeding before he dragonfly noticed that it was not all there.

And this is the reason why insects have never been as big as men, and why they never will. They need too much to eat. It is a case of the cost of living. When there came to be so many insects that they had eaten up all the grass and leaves where they happened to be they began to eat other insects, and when the supply of other insects gave out they had to die, except such of them as could live on

Some beetles, like the sexton beetle, eat the flesh off dead mice, birds, and other animals, and naturalists who have a specimen that they want made into a clean skeleton, often leave it where the beetles will do the

SEEKING ALMS

Perhaps some of the readers of The Colonist would be interested in hearing what Mr. Helmer of the China Inland Mission in Toronto writes regarding the sad condition of things in China; his letter is dated 17th Feb-

'As nearly as we can learn there is about a million people affected by the famine, many of whom would starve to death if not helped, others perhaps could survive until they might get another crop.

We are receiving quite a large number of small donations, which we are forwarding to our treasurer in Shanghai, to be used as far as possible by our own missionaries.

'In sending forward these donations we certainly do remember sufferers in prayer that God will not only use the money to save lives, but that it may turn to their souls' salvation. Now may I ask all who read this to do all in their power to send help to these poor peo-ple? We cannot realize what it is to be slowly

There are some other reasons why insects

fought each other a great deal more fiercely

than the most warlike men ever were known

to do, and there is no insect that is not con-

sidered a good dinner by some other insect

that has been fitted particularly for the job of

The huntress-wasp eats spiders; the

spider eats flies and other winged creatures;

some kinds of flies imitate bees, and sneak into

the hive and eat the baby bees; dragon-flies

are particularly fond of mosquitoes, and so it

goes. Sometimes there is one kind of wasp,

or beetle, or spider, that is on the lookout for

the grown insect, and another enemy that is

all ready to eat up the larva or grub. Our

scientific men at Washington spend a great

deal of time experimenting with insects in

this way. When the farmers are troubled

with a grub, or weevil, or other insect that

damages the crops, the scientific men go look-

ing for some other kind of insect that will gat

that insect. But they have to be careful about

bringing it into the country, or the remedy

tist brought a wasp or moth from Europe,

thinking it would clear out the grubs of some

insect that was spoiling the crops, and the

moth started out on its own account and ate

up the leaves on the trees when the grubs

gave out. There are a great many kinds of

insects in this world, and some of them are

when small is that it can hide better. If in-

sects were as big as men, it would be almost

impossible for them to keep out of sight of

their enemies, and man, with his cannon and

dynamite, could make an end of most of them

in very quick time. But so long as they are

little enough to hide in the grass, on the bark,

under logs, in the water, and in holes and

cracks, they manage to keep on living and sat-isfy their appetites. They can hide better,

and escape quicker, and do more in propor-tion to their size than any other live things in creation, and they have been taught this

by thousands of years of dodging energies.

Besides the hungry insects, there is the whole bird creation which lives largely on insects, and the birds, when let alone, will

keep the insects from getting too big or too numerous. A bird's appetite is almost as big

Still another reason why an insect is safer

There have been times when some scien-

may be worse than the disease.

good policemen.

that they have

starve in a very short time.

have remained small. One is

hunting it.



dying of hunger, and we do not like to think of it. We prefer pleasanter and more easy thinking than that; put it to ourselves and to our children, and how shall we feel? O, do not let us turn our face of pity from them. Let us ine sufferers will also be a can—all we can. Our good bishop, Rt. Rev. edged by The Colonist.

W. W. Perrin, Victoria, is glad, as you know, to forward all subscriptions sent to him. I shall be glad to do the same with all that are sent to me, and with all my heart I beg you not to forget these sufferers, but to send some thing, much or little, just what each one feels he or she ought to give, and may God bless the givers as well as the recipients. May I add the wish that every church

should take up this matter, and among their members respond heartily to the appeal I am sure any of our clergy will gladly forward gifts on behalf of the suffers.

Envelopes marked for this purpose can be obtained from the Victoria Stationery Com-

pany, 1207 Government street.

Any who are kind enough to send to me may address, Miss Caroline Machlem, 1126 Richardson St., Victoria, B. C.

Subscriptions for the relief of Chinese fam-ine sufferers will also be received and acknowl-

work. There is not enough food in the world sects faster than they can grow is by not letof any kind to feed a creature that eats in the ting them have a chance to grow-killing the way an insect does, unless the creature is grubs before they wake up and begin to eat. very small. If one single tace of insects If the people who need grain and fruit for were created today as big as men they would

their own use did this, and also let all the insect-eating birds religiously alone, we would not have so many million insects to board as we do now. This is something worth think-

Leaves From The Bible of Ireland

A Small Tribute to the Noteworthy Fact that Next Friday Will Be the "Sivinteenth" Did ever ye hear of the reign of Conaire, ye Victoria folk? Well, then, if ye did not,

sure it's high time ye were learning, and if ye did, ye'll be pleased to hear of it again; so, either way, I'll be after repeating the legend as it was set down by one that was a good deal cleverer than I, or you either, for the matter of that, although by the same token, that isn't very polite. Whist now:

Now there was great plenty in Ireland through his reign; seven ships coming at one time to Inver Colptha, and corn and nuts up to the knees in every harvest, and the trees bending from the weight of fruit, and the Buais and the Boinne full of fish every summer, and that much law and peace, and good will among the people, that each one thought the other's voice as sweet as the strings of harps. And the wolveys themselves were held by hotsgaes not to kill more than one calf in every pen. There was no thunder of storm in his reign, and from spring to harvest there was not as much wind as would stir a cow's tail, and the cattle were without keepers because of the greatness of peace. And in his reign there were hree crowns in Ireland, the crown of flowers, the crown of acorns and the crown of wheat

And now then, this is the pretty little story all about Deidre and the sons of Usnach:

One day Deidre and her companions were out on a hill near Emain Macha, looking around them in the pleasant sunshine, and they saw three men walking together. Deidre was looking at the men and wondering at them, and when they came near she remembered the talk of the hunter, and the three men she had seen in a dream, and she thought to herself that these were the three sons of Usnach, and that this was Naoise that had his head and shoulders above all the men of Ireland. The three brothers went by without turning their numerous. A bird's appetite is almost as big as an insect's, and a good, active bird can dispose of more bugs in a season than a farmer ever heard the low singing of the sons of Uscan kill by scraping them off with a big stick.

The only way human beings can kill off inand every cow that was being milked and nach, it was enchantment and music to them,

heard it, gave two-thirds more milk. And it is what happened, that love for Naoise came into the heard of Deidre, so that she could not but follow her. She gathered up her skirt and went after the three men that had gone past the foot of the hill, leaving her companions there after her. . . So Naoise and met Deidre, and Deidre and Naoise kissed one another three times, and she gave a kiss to each of his brothers. And with the confusion that was on her a blaze of red fire came upon her and her color came and went as quickly as the aspen by the stream. And it is what Naoise thought to himself that he never saw a woman so beautiful in his life; and he gave Deidre then and there the love that he never gave to living thing, to vision, or to creature but to herself alone. Then he lifted her high on his shoulder and he said to his brothers to hasten their steps. And they hastened them. "Harm will come of this," said the young men. Although there should harm come," said Naoise, 'I am willing to be in disgrace while I live."

If ye liked that little bit of a love piece, here's some good advice for ye, such as will stand ye in good steam, I'll be bound, when ye are like to be mulvathered entirely:

And when it was told Cuchulain (that's Cahoolin) that messengers were come for Lugaid, to make him king in Teamhair (Tara) he rose up and began to advise him , and it is what he

"Do not be frightened man in battle; do not be light-minded, hard to reach or proud; do not be ungentle, or hasty or passionate; do not be overcome with the drunkenness of great riches like a flea that is drowned in the ale of a king's house. Do not scatter many feasts to strangers; do not visit mean people that cannot receive you as a king; do not let wrongful possession stand because it has lasted long; but let witnesses be searched to know who is the right owner of land. Let the tellers of history tell truth before you. Do not use too many words. Do not speak noisily, do not mock, do not give insults, do not make little of old peo-Do not think ill of any one; do not ask what is is hard to give. Let you have a law of lending, a law of oppression, a law of pledging. Be obedient to the advice of the wise; keep in mind the advice of the old. Be a follower of the rules of your fathers. Do not be cold-hearted to friends; be strong towards your enemies; do not give evil for evil in your battles. Do not speak any harm of others. Do not waste, do not scatter, do not do away with what is your own. When you do wrong, take the blame of it; do not give up the truth for any man. Do not be trying to be first, the way you will not be jealous; do not be an idler that you may not be weak; do not ask too much that you may not be thought little of. Are you willing to follow this advice, my son?"

Then Lugaid answered Cuchulain, and it is what he said: "As long as all goes well I

(Continued On Page Twelve.)

Vitcheraft in China

onsiderable interest by the announce-ted Chinese ministe time ago, by the lannounce-t. Wu, the gived Chinese minis-n an active part in a spiritualistic ems to have been forgotten that matist in question comes from a nawhich various forms of occultism have been held in the highest honor. In fact, as occasionally pointed out in The Scrap Book, there is scarcely a field of human en-deavor or speculation, even, in which China has not, at one time or another, been pre-emi-nent. This holds true for the occult.

According to Chinese data, one thousand three hundred years before the birth of Christ. witches and wizards, ghosts and spirit-communion were familiar subjects of Chinese respect. It is even alleged by the Spiritual Review that a certain part of the Chinese Empire is allotted to a tribe of magicians, and anyone wishing to acquire magical art can proceed there and put themselves under the immediate instruction of an adept.

Strange and wonderful things are written of these people. One method prescribed by adepts for making a person invisible, is that of opening a coffin, taking out the body, and putting the pupil to sleep in it for several nights in succession. It is said that, at the end of so many days, the sleeper becomes invisible until dawn, and can thus gratify his lust for revenge on an enemy, or commit rollbery without fear of detection.

The idea of one being possessed by an evil spirit is flouted in the west. But cases of "possession" are very frequent throughout the ancient empire, and there are many methods of casting out evil spirits, or devils.

Taoist priests find great favor with many people for their powers, but there are also special adepts who enjoy a reputation for their skill in being able to cast out devils, and control the spirits of both living and dead.

These witch-doctors are anything but gentle. The figgers, nose and neck of the patient are punctured with needles. They also apply a certain pill made out of "aitsau" in the following mainner: The thumbs of the two hands are tied tightly together. The two big toes are also tied to each other in the same manner. Then one pill is put on the big toes at the root of the nails, and the other at the root of the thumb nails. At the same instant the two pills are set on fire, and there they are kept until the flesh is burned.

Whether in the application of the pills, or in the piencing of the needles, the invariable cry is: "I'm going; I'm going immediately. I'll never care to come back again. Oh. have mercy on me this once; I'll swear never

Ordinary people who cannot afford to employ any professional exorcists, will paste all sorts of written charms upon the doors and windows of the room that the patient occupies. This is also resorted to at a certain period of the year, known to us as the Chinese New Year, by shopkeepers, to keep bad luck from their business.

Another sovereign remedy, and perhaps the simplest, is to take a certain piece of wood with a hole in it, insert a small piece of ivory in the hole, making the form of a cross, and throwing it into the water; thus will the devil; or spirit, go to the deep.

Illness is also looked upon in the light of a

possession—the clothes of the sick persons will be taken from them and exposed to the sun, and incantations made for the evil one to depart. Sometimes sacrifices are resorted to, such as fowls, etc.

In the old times, it was no mean position to be appointed by the authorities as an officer for "hooting at" or "shooting" evil spirits In some cases, as a last resort, people will go to a missionary or a convent, for exorcism.

The willow tree is used by the celestial in this connection for various purposes. It considered by many as efficacious, as an extract, in driving away evil spirits, who might obstruct the way hereafter of the departed and also for raising spirits, and for those reasons a twig will frequently be seen at funerals carried, by the eldest son or chief mourner.

WHO WON?

The late Duke of Wellington got a lette once from a lady saying she was soliciting subscriptions for a certain church and ha taken the liberty of putting his name down for £ 200 and hoped he would promptly her a cheque for that amount. He forthw replied that he would respond to the cal but he too was interested in a certain churc which needed subscriptions, and, counting upor his correspondent's wellknown liberality he had put her down for £200. "And so. he concluded, "no money need pass between

YOUTHFUL STRATEGY

Mr. Slimson-"Willie, didn't you go to the trunk-maker's yesterday and tell him to send around that trunk I ordered?"

Willie—"Yes, pa."
Mr. Slimson—"Well, here is the trunk, but Willie-"Yes, pa; but I told him I thought

ou hadn't better have any strap." The MacTartan (very much fulled)-I'wa tuckets for Inverness, Mister."

Clerk-"Right, sir, change at Aberdeen,

The MacTartan-"Na, na! I'll tak' it the 1100; we've heard aboot the fouk in Aber-deen."—Sketch. H THE P

ormal industrial

elixir of the major and ten, and disease last few years its have led the above of appier orde we quote l rvestigation ave strength pinions. Th proper mode held in ch when the fac actise-perfect, il its normal sp even the ce decay, senile vears as a l rk, serenely ity, and in the tenarians are hey were once

and Wales ix reputed ce of late years a n strictly inq ild be no reasonable ged beyond 100 been inquired in nacy of their cla their century of life, bu know something of cen nize the fact tha ndred do so by virtu degenerations, and succ age, which may be de general atrophy. But tatrophy, although of g not very seriously crip til close upon his term o night be quoted of mu nent in life even beyo

"According to our est ears what may not rewster married at 7 ienna, Janos Meryes suicide, his reason being er support his father aged 115 and 110, respension Medical Journal of given the portrait of a 102 had undergone an the lip without anaesth

"The atrophic char umerated as characte ltogether beyond rem ole, perhaps, they can much may be done by egulation of diet and herapeutic agents, to or arrest their advance many ways to lessen the patients, although you very fer upon them that rejuv of them, and those gen dated, will expect of you

"There is no short

vin it is the work of a l ion of it is a branch of chance, one of these day ternational Congress on hibition of dotards for and hearty centenarians any rate you may rest steady obedience to the age may be attained, and that it may be prolonge cessary for the promoti arge scale lie beyond th cal profession. We cann he age, abolish avarice, of power, or quell even of the struggle for exister but we can do somethin those who will listen to that may be avoided by ples of mental hygiene; weight of our support culated to promote the b

BOOK N

Jack London, whatever accused of a lack of vernewspaper report publish scribed him as having while leading a band of i n the same day we recei ok, and learn that he oon to be given to has had experience scores of good stories, and any hesitation that this l title of which we tal ng if not blasphemo as yet written. The Laughs," is rather a are several others l lack of lurid Londor could find it po tality of "The Francis