

## HOW OLD IS THE EARTH

A VERY OLD MUMMY IN THE BRITISH MUSEUM.

Darwin Says That Over 300,000,000 Years have Elapsed Since the Earth has been a Planet

The time has admittedly gone by for attempting to "reconcile the facts of Nature"—to use a recognised phrase—with the chronology of the Bible, which makes the age of the world rather less than 6,000 years. Indeed, in the Egyptian Rooms at the British Museum, the visitor can see for himself objects which go back to an authenticated period long antecedent to 4,000 years B.C., and great is the wonder produced on the minds who first make their acquaintance. In that same department, among the mummies, there is what is in many respects the most striking of the exhibits in the department—the body of a man who belongs to the Stone Age. It lies in an accurate representation of the peculiarly shaped grave in which it was found, and it has been in consequence somewhat irreverently nicknamed by the habitués of the Museum "the man in the pie-dish."

**A RELIC OF 50,000 B. C.**  
The particular interest in that corpse—which men, women, and even children look upon without the least thought or suggestion of the fear or horror usually inseparable from death—is that it is unquestionably the oldest exhibit in the Museum; and scientists have been rather struck by the fact that the authorities of the great institution have not, so far as is known, taken the bull by the horns, and boldly labelled that exhibit as dating from 50,000 B. C. Thus, with one single stroke of the pen, Bishop Usher's Biblical chronology is multiplied by about nine, and it may be that an even higher number would be required to satisfy the requirements of the age of that particular specimen.

How long has the earth been a planet capable of supporting not only man but all forms of life?

In an address Lord Kelvin once delivered on the subject, he gathered together the opinions of various scientific men, which cannot but be of interest to every thinking being. Darwin, in his "Origin of Species," stated that "In all probability a far longer period than 300,000,000 years has elapsed;" while later on, in the same book, he wrote: "He who can read Sir Charles Lyell's grand work on the "Principles of Geology," which the future historian will recognise as having produced a revolution in natural science, yet does not admit now incomprehensibly vast have been the past periods of time, may at once close this volume."

**WHEN THE SUN DIES.**  
Lord Kelvin himself—then Professor William Thomson—over forty years ago, made an attempt to calculate the length of time during which the sun has been burning at its present rate, and in that connection he wrote: "It seems, on the whole, most probable that the sun has not illuminated the earth for 100,000,000 years, and almost certain that he has not done so for 500,000,000 years. As for the future, we may say with equal certainty that the inhabitants of the earth cannot continue to enjoy the light and heat essential to their life for many million years longer, unless new sources, now unknown to us, are prepared in the great storehouse of creation."

It is a remarkable evidence of the acute perception of Lord Kelvin's mind, as of the rare prevision of his intellect, that the last words—"unless new sources, now unknown to us, are prepared in the great storehouse of creation"—should have been added to that remarkable sentence.

As an example of the very extraordinary range of time given to the age of the earth, consider the following statement from Professor Jukes' "Students' Manual of Geology." He wrote: "Mr. Darwin estimates the time required for the denudation of the rocks of the Weald of Kent, or the erosion of space between the ranges of chalk-hills, known as the North and South Downs, at three hundred million years. It may be possible, perhaps, that the estimate is a hundred times too great, and that the real time elapsed did not exceed three million years; but on the other hand, it is just as likely that the time which actually elapsed since the first commencement of the erosion, till it was nearly as complete as it now is, was really a hundred times greater than his estimate, or thirty thousand millions of years. 86,000,000 YEARS OF LIFE."

Professor Phillips, in a lecture to the University of Cambridge, considered the rate of erosion between the ranges of the North and South Down to be rather one inch a year, than Darwin's estimate of one inch in a hundred years, so that on mere geological grounds he reduced the times to about a hundredth. Calculating however, the actual thickness of all the known geological strata of the earth, he came to the conclusion that life on the earth's surface may probably date back to between 38 and 96 million years.

Within the last ten years, Professor Sollas, of Oxford, working on new principles applied to the stratified rocks, reduced this time very considerably, for he wrote: "So far as I can at present see, the lapse of time since the beginning of the Cambrian system is probably less than 17,000,000 years, even when computed on an assumption of uniformity, which to me seems contradicted by the most salient facts of geology."

**STARTLING FIGURES.**  
What are the data, it will natur-

## HE TELLS THEM TO ASK THE I. O. F.

JOHN J. BURNS CURED BY DODD'S KIDNEY PILLS.

He Had Chronic Inflammation of the Kidneys—Says His Brother Foresters can Tell all About it.

(Darnley, P. E. I., Aug. 29—(Special)—John J. Burns, a prominent member of the I. O. F. here, whose cure of Chronic Inflammation of the Loins and Kidneys caused a sensation some time ago, reports that he is still in splendid health. "Yes," says Mr. Burns, "my cure is entirely satisfactory. I have had no trouble since I used Dodd's Kidney Pills. They drove away the disease from which I suffered for eight years."

"No, I'll never forget Dodd's Kidney Pills. The doctor could not help me. I got so bad I could scarcely walk, sit or sleep. I was about to give up entirely when an advertisement led me to try Dodd's Kidney Pills. Now I am in good health. Dodd's Kidney Pills saved my life."

If any one doubts Mr. Burns' story he simply refers them to his brother Foresters. They all know how he suffered and that Dodd's Kidney Pills cured him.

ally be asked, on which calculations of this magnitude are made? Among the most important are the consideration of the underground heat which is constantly being conducted out of the earth—in other words, the cooling of the earth, the speed at which the earth rotates on its axis, as well as physical properties of rocks at high temperatures.

The loss of heat by conduction was Lord Kelvin's first argument for limiting the age of the earth. He found that if the earth had been losing heat in the past "with any approach to uniformity for 20,000 million years, the amount of heat lost out of the earth would have been about as much as would heat, by 100 deg. C., a quantity of ordinary surface rock of 100 times the earth's bulk. This would be more than enough to melt a mass of surface rock equal in bulk to the whole earth. No hypothesis as to chemical action, internal fluidity, effects of pressure at great depth or possible character of substances in the interior of the earth, possessing the smallest vestige of probability, can justify the supposition that the earth's upper crust has remained nearly as it is, while from the whole or from any part, of the earth so great a quantity of heat has been lost."

**EARTH ONCE RED-HOT.**  
By considering the cooling of the earth, and by tracing backwards the process of cooling, Lord Kelvin came to "a definite estimate of the greatest and least number of million years which can possibly have passed since the surface of the earth was everywhere red-hot." This estimate he expressed in the following words: "We are very ignorant as to the effects of high temperatures in altering the conductivities and specific heats and melting temperatures of rocks, and as to their latent heat of fusion. We must, therefore, allow very wide limits in such an estimate as I have attempted to make; but I think we may, with much probability say that the consolidation cannot have taken place less than twenty million years ago, or we should now have more underground heat than we actually have; nor more than 400 million years ago, or we should now have less underground heat than we actually have."—London Answers.

**IRISH CATTLE HUNT.**  
Wild Herd had Become a Nuisance to Farmers.

Such a hunt as would have delighted the heart of Fenimore Cooper's doughtiest heroes has just concluded within three miles of the centre of Belfast city, a herd of wild cattle being exterminated on the slopes of Cave Hill, which frowns majestically over Belfast Lough.

Some years ago Mr. Stafford McLean, a farmer, put some polled cattle on the hill, and a young bull reverted to savagery and induced some members of the herd to follow his lead. In the course of time they multiplied, and the younger members were wilder than the old. They broke hedges and fences, and foraged anywhere and everywhere.

Mr. McLean was held responsible for their depredations. Claim followed claim for fences broken and hayricks demolished, until the farmer in despair, invited everyone to join in a grand hunt and put a stop once and for all to their work.

Men climbed the hill armed with every class of weapon to be found in the district, pistols, old blunderbusses, fowling-pieces, sticks and knives, and a sprinkling of modern rifles. They warily stalked their prey, but the animals were quick, leaping hedges and ditches in a manner which no hunter could equal. One or two men got within range, but their small shot whistled off the animals' hides like hail on the pavement.

The hunt on the first night was a failure, but the men came better prepared and, as a result, most of the animals have been accounted for, and there is not likely to be another such hunt in Ireland for some time to come.



The satisfaction of having the washing done early in the day, and well done, belongs to every user of Sunlight Soap.

### EMPEROR OF JAPAN.

Is Descended From a Long Line of Imperial Ancestors.

Mutsuhito, Emperor of Japan, who is now forty-three years of age, succeeded his father when he was only fifteen, and under his influence Japan has earned herself a place among the great Powers of the world. His Majesty claims to be the hundred and twenty-first ruler of his line in unbroken descent from Jimmu Tenno, the "Son of Heaven," who founded the dynasty 660 B. C. Two years after his accession the Emperor married Princess Haruko, daughter of Prince Ichijo, a noble of the highest rank. The Empress is childless, and the Crown Prince, the Emperor's eldest son, is the child of a second wife, for, according to Japanese law, inferior wives are allowable. The Crown Prince married nearly four years ago, and is the father of a heir presumptive to the crown. The Emperor of Japan is distinctly a strong man, as may be seen by the wonderful progress his country has made under his rule. Yet his education was more elegant than practical. He was trained in the making of poetry, the mastery of court etiquette, the arrangement of flowers according to Japanese methods and in Chinese classic lore.

### UNDERSTOOD THE CASE.

Eminent Specialist—Yes, madame, your husband is suffering from temporary aberration, due to overwork. It's quite a common occurrence.

Wife—Yes; he insists that he's a millionaire.

Eminent Specialist—And wants to pay me a couple of hundred dollars for my advice. We'll have to humor him you know.

### Deafness Cannot Be Cured

by local applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedy. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube is inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed, Deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases out of ten are caused by Catarrh, which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure. Send for circulars, free. F. J. CHENEY & CO., Toledo, O. Sold by all Druggists, 75c. Take Hall's Family Pills for constipation.

Piet Cronje, the ex-Boer commandant, has been married, and we understand that the second Mrs. Cronje objects to her husband being described as a hero of a hundred engagements.

I was Cured of Acute Bronchitis by MINARD'S LINIMENT.

J. M. CAMPBELL.  
Bay of Islands.

I was Cured of Facial Neuralgia by MINARD'S LINIMENT.

WM. DANIELS.  
Springhill, N. S.

I was Cured of Chronic Rheumatism by MINARD'S LINIMENT.

GEO. TINGLEY.  
Albert Co., N. B.

There is no better way of dusting carved furniture than with a painter's brush. This will penetrate all the little crannies which could not be touched by an ordinary duster or brush.

Minard's Liniment Cures Ulceration

A cheese-mite a quarter of an inch long can jump out of a vessel 6 inches deep. To equal this feat a man would have to jump out of a well 144 feet deep.

Flies Carry Contagion

**Wilson's Fly Pads**  
Kill the flies and disease germs too.

Imitations at best are imitations, substitutions never satisfy - Insist on having *Blue Ribbon Tea.*

USE—  
**"ISLAND CITY"**  
HOUSE AND FLOOR  
**PAINTS**  
Will Dry in 8 Hours.  
On Sale at all Hardware Dealers  
**P. D. DODS & CO.,** Montreal, Toronto, Vancouver.

## Potatoes, Poultry, Eggs, Butter, Apples

Let us have your consignment of any of these articles and we will get you good prices.  
**THE DAWSON COMMISSION CO., Limited**  
Cor. West Market and Colborne Sts., TORONTO.

LOWER PRICES USE BETTER QUALITY  
**FIBRE EDDY WARE**  
CAN BE HAD IN  
Pails, Wash Basins, Milk Pans, &c.  
Any First-Class Grocer Can Supply You.  
**INSIST ON GETTING EDDY'S.**

### MEDICAL CONVENTION.

Delegates to the Medical Association at Vancouver can return through San Francisco, Los Angeles, Salt Lake City, Denver and the "World's Fair" St. Louis, by purchasing tickets sold to San Francisco, account Knights Templar meeting.

Tickets on sale from August 15th to September 9th, good for return until October 23rd, with stopover privileges in each direction. This is an open rate to the public, as tickets are not sold on the certificate plan. The rate from Toronto will be \$70.25. Correspondingly low rates from other points. Tickets can be purchased going via Vancouver, returning through above cities, or vice versa.

By writing H. F. Carter, Traveling Passenger Agent, Union Pacific Railroad, 14 James Building, Toronto, Ont., he will give you full information.

The Vatican was thoroughly cleaned lately, and a quantity of repainting done. The work employed 5,700 people for six months. Merely in cleaning wallpapers 1,000 loaves of bread were used daily.

For Over Sixty Years  
MINARD'S SOOTHING SYRUP has been used by millions of mothers for their children while teaching it soothes the child, softens the gums, allays pain, cures wind colic, regulates the stomach and bowels, and is the best remedy for Diarrhoea. Twenty-five cents a bottle. Sold by druggists throughout the world. Be sure and ask for "MINARD'S SOOTHING SYRUP." 22-31

Never put off till to-morrow the friend who is willing to lend you money to-day.

Minard's Liniment Cures Garget in Cows.

St. Peter's at Rome is in the form of a cross 636 feet long and 450 feet wide. Its height is only 2 feet less than its width.

Lever's Y-Z (Wise Head) Disinfectant Soap Powder dusted in the bath, softens the water and disinfects.

Madrid now holds the record of being the most unhealthy capital in Europe. Its deaths were 9,374 last year in a population of little over half a million.

Minard's Liniment Cures Colds, etc.

### CARGO OF GOLD.

Probably the largest cargo of gold specie ever shipped across the Atlantic has been unloaded from the Kaiser Wilhelm II. at Cherbourg. The amount, constituting an instalment of the Panama Canal indemnity from the United States, was 42,592,648 frs., or a little over \$8,518,500. The money had been kept on board in an armored store-room, before which an armed sailor was on guard night and day. The door was closed by three locks, the keys being in the possession of three ship's officers respectively.

Pondennis—"I've made an awful mistake. I sent a messenger boy up to Miss Cash's with a lot of flowers, thinking it was her birthday, and now I learn that her birthday is to-morrow." Warrington—"That's all right; the messenger boy may get there in time."

## St. Margaret's College, Toronto.

Re-open Sept. 12th.

A high-class residential and day school for girls. Modern equipment. Specialists of European training and of the highest academic and professional standing in every department of work. For booklet apply to MRS. GEORGE DICKSON, Lady Principal; GEORGE DICKSON, M.A., Director (late Principal Upper Canada College).

## Dominion Line Steamships

**MONTREAL TO LIVERPOOL.**  
Moderate Rate Service. Second cabin passengers berthed in best accommodation on the steamer at the low rate of \$40 to Liverpool or \$12.50 to London. Third class to Liverpool, London, Glasgow or Queenst. \$15.00. For all particulars apply to local agents, or DOMINION LINE OFFICES, 41 King St. E., Toronto, 17 St. Sacramento St., Montreal.

## CARPET DYEING

and Cleaning. This is a specialty with the **BRITISH AMERICAN DYEING CO.** Send particulars by post and we are sure to satisfy. Address Box 158, Montreal.

## CANADIAN NATIONAL FACTS AND FIGURES.

The Independent Order of Foresters have just issued from the press a very neat little booklet giving a great gist of facts and figures with regard to Canada, its resources, mineral and agricultural, etc. Historical points, territories and other Canadian information of great value. This little booklet should be in the hands of all. It will be sent on application to Dr. Oronhyatekha, Supreme Chief Ranger, of the I.O.F., Temple Building, Toronto, Canada.

A few pieces of hoof-parings which horseshoers pare off the hoof before shoeing horses will make palms thrive luxuriantly. Simply poke the parings well down in the soil at any time of the year. Horseshoers give away the parings for the asking.

Minard's Liniment Cures Distemper.

Most of the black hair used in wigs and "switches" comes from the convents of Italy and Spain, while the fair and red hair comes mainly from the heads of Russian, Swedish, German, and Danish peasant girls.

### Summer Colds

You should cure that cold at once. It is not only making you feel miserable, but it is doing you harm. Take

## Shiloh's Consumption Cure

The Lung Tonic  
It is guaranteed to cure you. Your money refunded if it doesn't.  
At all druggists, 25c., 50c. and \$1.00 a bottle. 403