THE USE OF PALEONTOLOGY.

A Branch of Science About Which Com-paratively Little Is Known.

"What is the use of paleontology?"

The question has been asked in congress by representatives, who freely expressed the opinion that this branch of science was of no value whatever. Regarding it from this point of view, they proposed to give no money to it in the appropria-tion for the geological survey. In order to get a word or two on the other side of the question, a writer asked Major J. W. Powell to explain what paleontology

was good for. "To begin with," said be, "all the sedntary rocks of the world are charac terized by certain fossils of animals and plants which they contain. The rocks are classified by their fossils, which indicate the age of the formation in each case and the age at which it was laid down. Thus the study of the rocks is the study of the fossils in them, and we call that study 'psicontology.' By its aid we learn the history of this earth on which we live the fact that the first miniatures were produced in 1838. which we live-the details of its building and the story of the development of life upon it.

"Paleontology is the basis of geological science. It has elevated mining an Italian bishop, to drive a way demons, from mere guesswork to the status of about 400 A. D.—St. Louis Globe-Demoexact knowledge. All the work of the crat. mining engineers of the world depends upon it. The most valuable minerals are sought for and discovered by the study of the rock formations, which can only be traced by their fossils. All the coal in the United States is mined by such means. Many beds of iron are in like manner related to the sedimentary rocks. All the lead of Iowa and Missouri and the silver of Colorado are obed from rocks whose bearing veins and lodes are traced by the fossils they contain. Thus you will perceive that in great measure the riches of the earth derived from and civilization de-

pends upon paleontology.

"Paleontology is recognized as the basis of all the geological surveys of Europe and Asia. Next after paleontology in point of importance comes the study of the chemistry of rocks, and the study of the chemistry of rocks, and side of the other, with considerable regstudy of the crystals of rocks-is to be ularity, and close by he sat singing, apconsidered. Incidentally an interesting and valuable contribution to science is afforded by studying the animals and are replaced by new ones. On this explants whose remains are found pre- cursion I saw three such places of served in the rocks. They tell the story of the life history of the world. However, that is only a matter of secondary importance. Let me add that every as well as every geological survey oxecuted by the United States, has been have a dark background, against which

based on paleontology."

"A secondary end of paleontology is the elucidation of the past history of has the sense of beauty? J. McGee. "The applications and uses of the knowledge thus acquired are many and varied, and yet they pertain chiefly It is the knowledge of today that enables hone and the electric motor.

"Thus far the cultivation of paleontology as a pure science has not yielded the road. its fullest fruit except in its application only to domestic animals and plants yielding food supplies, but even for man himself."—Washington Star.

What the Age Demunds.

and gracious antiquity, so that one ence of 20,000 heats. From this it is moves in a sort of rarefied atmosphere concluded that in the summer time the and is handled tenderly as a precious Vegetarian has the advantage, for he relie; but unhappily the age is not of a can keep cooler and in better health temper which encourages this sort of under the reduced number of heart act in these days is much like trying reach is that the vegetarian is better off to play Hamlet supported by a company in the summer and the meat eater which insists upon giving "Humpty stronger in the winter.—Yankee Blade. ply becomes ridiculous and there is an end of the whole thing.

off the one of these for the other. The children of today are very keen to detect the difference between the real and the spurious, and it is of no use to offer them anything but the genuine article. The rising generation is pitiless and it does not take the smallest pains to cover its contempt for this evasion of the doom of advancing age. It demands the genuine thing and it scoffs openly at anything else.—Boston Courier.

from wild oats. Dependent from streamers it would have been readily mistaken for an artistic little fancy basket, the work of human ingenuity, so perfect was its construction. Yet there had been no attempt at alteration since it was borne from the limb of the tree where found swinging, except that now it was suspended by ribbons, while the bird used none.—San Diego Cor. Christian Union.

A Clever Summer Girl. Girls as a rule have an aversion for mathematics, but occasionally one is found who is able to distinguish herself found who is able to distinguish nersoir in this difficult study. Old Orchard beach has just such a girl this year and she applies her knowledge in a most practical and interesting manner. With the knowledge of how much a young man weights as a foundation, this bright miss can tell at a clance how long his

Some Discoveries and Invention The first patent for sewing machines was granted to Weiseuthal, in England.

The first perfect engine was made by Watt, 1764. Calico printing was first executed by the Dutch in 1670: first made in Eng-

and in 1771.

The steem engine was known 130 B.

The bagpipe, the favorite Scotch and Italian instrument, was invented in Greece 200 B. C. Window glass was used in Italy in churches in the Eleventh century, in

English houses in 1557. Gas was first made from coal by Clay-

ton, 1739, and was first used for illumination in 1792 Paper from rags was made in A. D. 1000, the first linen paper in 1319, and

from straw in 1800. Chain shot were the invention of De Witt, the great Dutch admiral. They were first used in 1666.

Watches were first made in Nuremburg in 1477, and were called "Nuremourg animated eggs." Air brakes were invented by George

Westinghouse in 1809, and subsequently often improved.

Playing cards were invented for the musement of the crazy king, Charles VI. of France, in 1380.

Church bells were made by Paulinus,

Playgrounds of Bower Birds. In Lumboltz's "Among Cannibals" a playground of the bower bird is de-

scribed. He says: On the top of the mountain I heard in the dense scrubs the loud and unceasing voice of a bird. I carefully approached it, sat on the ground and shot a gray and very modest plumage and of the size of a thrush. As I picked up the bird my attention was drawn to a fresh covering of green leaves on the black oil. This was the bird's place of amuse ment, which beneath the dense scrubs formed a square about a yard each way, the ground having been cleared of leaves and rubbish.

parently extremely happy over his work. As soon as the leaves decay they amusement all near each other and all ered leaves was lying close by. that the bird scrapes away the mold the green leaves make a better appearance. Can any one doubt that this bird

Bees Are Much Like Human Beings. Bees do not appear to practice military marauding on a grand scale, like the Whigs came in again with Lord John to pure science, which is now, as it ever ants, but many of them shamelessly live Russell at the helm. es, the foundation for the future upon petty larcenies committed individmen not only to predict but to control seen slyly trying to cheat the vigilance the events of tomorrow. The simple ex- of the sentinels, and slip into their neighents and speculations of a Watt bors' cities that they may steal and produced the steam locomotive of a later generation; the electrical toys of a Merse and a Henry yielded the telegraph, the bands near a strange hive for the return stone and the long rivalry between him of laden bees and plundering them on and Disraeli. The practice of changing

The sentinels of the hive, on their as the basis for the classification of the side, keep off foreign bees, denying them rocks of the earth, but there are not wanting conservative students who hold by attempts at robbery chase the prowlthat the study of the course of life in ers and try to kill them. In this bees the past will indicate the safest direction imitate a great many human societies, for future guidance, with respect not where robbery has seemed the greatest

Vegetarianism and Meat Enting.

A curious examination of the hearts about the art of not growing old at all. and of the latter seventy-two. In It is all very well to come to a dignified twenty-four hours this means a differage, and it is impossible to take the beats. But in a cold climate, or in our found to take care of it. The tendering slow heart beats would hardly be suffi-of reverence to age is so much out of cient to make life strong and resisting aion that to do the graceful old age enough. The true verdict that one must

It was while in the river valley that I' saw on a friend's house wall what was There is a real youthfulness and a spurious one, and the age being satirical withal, it is well nigh impossible to palm off the one of these for the other. The

An Alarm Attachment. In Liberia there is neither clock nor timepiece of any sort, the reckoning of time being guided entirely by the sun's movement and position. The sun in Liberia rises at 6 a. m. and sets at 6 p. m. almost to the minute all the year around, and at noon it is vertically overhead.-Boston Herald.

Queer Food. Among the people of Java cockchafers are a favorite food. These admirable arm is, how recessure it can apply to the square how slowly he can walk on a lovery moonlight evening, how strong a hammock will safely hold their combined weights, the length of his step in dancing, the power of his step in dancing, the power of his stroke in swimming and many other useful facts.—Bangor Commercial.

Among the people of Java cockchafers are a favorite food. These admirable economists, the Chinese, eat the chrysalids of silkworms after the silk has been wound off them, frying them in butter or lard, adding the yoke of an egg or two, and seasoning with pepper, salt and vinegar.—Table,

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The Next British Cabinet.

Although the British government is of the same form as that of the United States, being in fact the original of which the latter and all recent republican constitutions were framed, yet two features of it are very puzzling to the so called cabinet. The same day's dispatches which told us recently that Mr. Gladstone might "find it impossible to govern with his slender majority" gave us the names of the supposed mem-

bers of his cabinet. Mr. Gladstone is himself, of course, to be premier and first lord of the treasury; Lord Herschell, lord high chancellor; Earl Roseberry, foreign secretary; Sir of state for India, etc. All this seems queen calls on the leader of the tri- money and endurance. umphant party to "form a new government."

is "the government" for the time being, it is quite possible that if Americans did is not the creature of positive law, but not maintain the habit of discussing of slow growth and custom. Down to political questions frequently there the latter years of William III it was would be evil results. Most assuredly the regular thing for the head of one de- frequent elections make men more tolpartment to be a Whig, of another a erant of political differences. Here, for Tory and of a third a "trimmer" and instance, are two men who vote together so on. Little by little, however, the in the spring elections (in village or t. It was one of the bower birds, with custom grew up of having a privy countownship) and on opposite sides at state cil, composed only of those in close sym- and national elections. They cannot pathy with each other and with the sov- afford to quarrel seriously.

of members varies greatly. When Victoria became queen-June 20, 1837-Lord Melbourne was premier. need to hurry in making a change. His "government" abolished the free constitution of Jamaica, was beaten half of laborers in the factories and mines, suddenly changed the policy of trade and carried it through, but was in nearly all European countries. beaten on a coercion bill for Ireland, and

The Irish famine and famine clearances, "Chartism" and the commercial panic of 1847 weakened bim, and in 1852 he was defeated on the militia questhe chief officials and governmental policy every time the popular majority changes would seem very radical in America, but it works well in England.

The average length of the school year in all the public schools throughout the United States is 135.5 days. In the city schools it reaches 191.6 days. The national public school celebration of Columbus Day, Oct. 21, will give the 13,-There has been a good deal said about of the vegetarian and the mest eater 000,000 pupils in public schools an addithe art of growing old gracefully, but shows that the number of beats to the tional holiday this year, and possibly there has perhaps not been enough said former are fifty-eight to the minute, the average length of the school year may be one day less next year. But whatever be the loss resulting from the cessation of routine school duties for a single day, it will be amply compensated for. The day will be put to the highest educational use, and the prominence which will be given to our public schools place of a relic unless a curator is to be own winters, the heat generated by such will be a permanent benefit to that institution. The observance of so memorable an event will awaken an interest in history and stir the American people to protect, strengthen and perfect our publie school system, upon which so much of future prosperity depends.

. It is a matter of wonder to the slower thinkers of this country why woman, in this progressive age, should try to excel in man's sphere, when there are so many things in her own which a man could never do and which she might glory in. Mrs. Potter Palmer is a fin de siecle example of what a woman can do and do well and still be thoroughly feminine in a Paris dress. She possesses executive ability combined with tact, and results prove that she has the quality of management which makes her the peer of man without encroaching on his

Will Paderewski shorn of his hair be like Samson? So far as women are concerned it may have been a matter of self defense with him. Our English consins were quite as demonstrative in their adoration as the American women, and at a recent concert, had it not been for the kindly offices of his manager, he would have been affectionately mobbed.

In London there are very few periodicals printed in foreign tongues. An English writer says he knows only of two German papers and one Spanish paper printed in that great city.

A Broken Reed, Indeed.

This, and no nistake, is the individual whose stamina has waned to such alowebb for want of an efficient toule, that he would certainly topole over and fracture something if a bulky supject such as fat wife, for instance were to lead upon him. Build up, ye lean pitniess and atrengthess with Hostetter's stomach bitters, which will enable you to eat and digest hearily, an i thus acquire fie-h and vigor. The fort cas of life will specify septulate to the grim scythe-wielder, death, if you don't. Nervousness, sleeplessiess, biliouances, constipation, malaria, rhaumatic and kidney trouble are all co-querable by this superb

Long Campaigns versus Short Ones

There is a growing conviction in the United States that we have too much politics, and since the recent campaign Americans—the established church and in Great Britain many leaders of thought have declared that our campaigns should be greatly shortened. Just think of it! The Salisbury parliament was dissolved on June 28. . The elections were ordered for the first three weeks of July, and the writs directed the assemblage of the new parliament

In less than six weeks the governmen of the United Kingdom is completely William Vernon Harcourt, chancellor of changed. The latest expressed will of the exchequer; John Morley, chief secretie voters takes effect in a change of tary for Ireland: Lord Ripon, secretary policy in less time than is employed to this country in selecting the delegates rather premature in view of the fact to a national convention. The campaign that Mr. Gladstone's supposed majority now in progress and already heated is made up of such discordant elements must grow hotter and hotter with the that one or more sections of it may re- perfect day-four months of party warfuse to sustain him, and so the Tory fare. Then, if a new man is elected, cabinet may remain in power. The seventeen more weeks must pass before usual rule is, when a "government" is he takes the helm, and ordinarily a conseaten, either by an adverse vote in the gress does not even convene till thirteen house of commons or a general election, months after it is chosen. The inevitait resigns at once. If not, a vote of ble result is that elections in this coun "want of confidence" is passed and the try degenerate into mere questions of

But there is another side to the question and a very important one. "Eter-The truth is that the cabinet, which nal vigilance is the price of liberty," and

ereign. Then the rule was established | The educational effect is also importhat all heads of departments should be tant. Go through the rural regions of in sympathy with the prime minister, any "close state" and you will observe and so the cabinet came into being, that every scholarly young man is called Nevertheless statesmen of great influ- into action early. The people feel that ence sometimes sit in the cabinet with- they have a sort of right to the services out holding office, and heads of impor- of the educated. The young student, taut departments are frequently not the young teacher and the young lawyer members of the cabinet, so the number are expected as a matter of course to "take the stump." The effect is excellent. So, take it all in all, there is no

Some writer has said, apropos of the had fresh leaves from the same kind of thereon by the Tories and Sir Robert joys of a picnic and the band accompatrees, while a large heap of dry, with- Peel was called but could not "form a niment: "Who worries over the mort-It seems government," Melbourne held on till gage on the house while the band is the "opium war" was over, and then playing "Ta-ra-ra-boom-de-ay?" Of

> The American hog has peacefully enthe Tory party from protection to free tered Denmark and is now very welcome



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t 6:30 p. m.; prayer meeting 7:30 p.m. Thurs day, Rev. C. L. Corwin, pastor, St. Paul Episcopal Cpurch -Corner Church and Chemeketa. Services 10:30 a m, and 7 p. m.; Sunday school 11:45 a. m. service Thursday 7:30p m. Rev. W. Lund,

rector. FIRST BAPTIST,-Liberty and Marion. services 10:30 a. m. and 7:00 p. m.; Sunday school 12 m.; young people's meeting at 6 p. m.; prayer meeting 7:30 Thursday. Rev.

Robert Whitaker, pastor. FREE METHODIST.-Rev. B. F. Smalley pastor. Services Sunday morning and vening, Sunday school at 10 a m.; prayer neeting Friday night. Church spposite North Salem school.

FRIENDS .- At Highland park on carline. Services 16:30 a. m. and 7:30 p. m.; Sunday school 12 m.; Christian Endeavor 6 p. m.; prayer meeting Thursday 7:50 p. m. hev. F. M. George, pastor.

GERMAN BAPTIST. -- Services in German Saptist church north of Cottage street anday school at 10 a. m. Preaching at 11 a. m. Evening service at 7.30. Rev. John Fechter, pastor. CHRISTIAN,-High and Center, Sunday

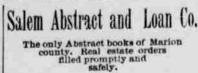
school 12 m.; preaching 10:30 a. m.; young people's society 6:30 p. m.; preaching 7:30 p, m. Rev. W. R. Williams, pastor. GERMAN REFORMED,-Capital and Marion.; sunday service il a, m.; Sunday school 10 a. m.; prayer meeting Wednesday 7:30 p. m. Rev. J. Muellhaupt, pastor.

CHRISTIAN SCIENCE. -Services in Unitarian hall at 10:10 a,m.and 7:30 p, m.; Sabbath school 12 m.; Bible study Thursday

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