Scientific.

SCIENTIFIC LECTURES BEFORE THE YOUNG MEN'S CHRISTIAN ASSOCIATION

PROFESSOR ALBERT F. LEEDS, ON GALVANISM. This difficult subject was admirably treated by the young Professor, before an attentive and delighted audience. Few lecturers possess a happier faculty of talking to their class in an easy and pleasant manner than does Mr. Leeds.

A simple galvanic cell, he said, was coma posed of a copper and a zinc plate, placed in vessel of acid water, and the two plates, joined by a connecting wire, formed the complete circle. The compound battery is a multiplication of simple cells with certain modifications. The connection between the galvanic current and the magnetic needle forms a curious and interesting feature in the science. The needle is always deflected at a right angle from the quarter of the parallel current. [An experiment with the Galvanometer proved this promptly.] A step further in this investigation proved that a current of electricity is a magnet—an experiment with a ring of iron, around which the wire coil was wrapped, proved this point; another iron ring, cut in two half circles, being so powerfully magnetised that it was impossible to separate them while the current was on, though they dropped apart when the current was severed; a bar of soft iron was so magnetised by the current, as to hold several pounds of nails suspended from each other in a confused net-work.

The medical battery was next explained, and the curious fact shown that a comparatively weak current, is made a powerful one by passing it through a coil of coarse wire, surrounding parallel bars or needles of soft iron-and the whole surrounded by another coil of fine wire of great length This brought him to an explanation of the magnificent Rhumkorff Coil, the most powerful electrical battery known.. It is a copy of our American Medical Battery, improved upon by an inventor of Paris, who has given his name to the machine.

The American manufacturers have again improved upon the French; until from the Boston machine torrents of sparks, 20 inches long have been drawn, while from that made in Paris, none longer than 4 to 6 inches have been obtained. The coil exhibited by the lecturer contained 60,000 feet, (10 miles) of extremely fine wire—so fine, that although wrapped the entire length with insulating silk thread, the whole wrapped wire was as fine as the finest sewing silk. It is sufficiently powerful to kill a man by its discharge, it is supposed; and during the manipulations necessary to the experiments, it was kept cut off from the galvanic cups, except, just at the last moment, for fear of accident to the lecturer or his attendants.

When all was ready, the gas lights in the room were put out, and a series of most brilliant experiments was shown. The discharges were like those of a pistol when a Leyden jar was connected with the battery. A mirror was placed in connection with the wires—a tree of light spread from the pole In front, finding its way to that behind the glass. Ether and gunpowder were both ignited by the spark. A beautiful aurora was drawn through a tube 4 feet long, from which the air had been extracted. The light was of an intense violet hue and surpassingly beautiful. Abbé Nollé's globe, showing a bright green light in a sphere containing Sulphate of Quinia, was surrounded by the violet aurora, all being in an exhausted air vessel. Thelyeisler tubes, showed various tints, pink, green and violet light, from the presence of various gases—nitrogen, oxygen, &c. The rapid discharges of the coil—the brilliant flashes, at times blinding—the beautiful tints, all make up a set of the most brilliant experiments that a lecturer can possibly show to a class.

PROFESSOR HAYDEN ON GEOLOGY.

Professor F. V. Hayden, delivered a second has left, in all science, the door ajar; so that depth.
scientific minds may consecrate their lives The Professor then dwelt upon the proscientific minds may consecrate their lives to interpret God in nature.

great branches—the vertebrates, the articulates, the molluses, and the radiates. This present configuration of things; showing a milk in whatever quantities, and whenever in scientific study. It has not been changed the earth for the home of man. since Cuvier's day; but it was not Cuvier, it was God who thus divided the animal creation and inspired Cuvier to find it out.

In the study of Geology, as in all scientific pursuits, man originates nothing; he merely recombines that which God has made; or in Geology, that which God has written upon the rocks. We find in America, the crust of the earth, which we have had the chance to examine, to be from 15 to 20 miles in vertical thickness. Beginning with the oldest formations, we have the Azoic rocks, then the Silurian, the Devonian (or old red sand-stone,) the Carboniferous, the Reptil- pursuits. ian (Triassic, Jurassic and Cretaceous) and

These six formations, Hugh Miller has of ignorance.

beautifully shown to correspond with the six days of creation, man being introduced at the close of the sixth, and the seventh being the day of rest, the present period. These different groups of strata are known and distinguished by the different fossil remains of animals or plants found in each. The Silurian was the age of molluscs; the Devonian of fishes, the Carboniferous of plants (forming our coal beds,) the Reptilian of reptiles, (the whole face of the earth in that period was covered with marshes and filled with reptiles, among which were immense Saurins 80 feet in length.) The Tertiary age, was the age of mammalia, (the mastodon, sloths of gigantic size, and mam-malia of various kinds, in immense numbers.) The age of man comes last, with the present surface of the earth. Now the fossils of each age are found to differ from each other. In the lower stratum of the old red sandstone, for example, there are remains of fishes differing essentially from those found in the stratum next above it, and showing a different phase of existence entirely. There are five different changes in the old red sandstone. So also in the coal formation, there are three phases, and we find that scarcely any of of the Tertiary prior to the present age, we

place of any rock in the series and obtain a comparative idea of its age.
Time, geologically speaking, involves millions of years. Formerly the earth was believed to be but six thousand years old. St. Petersburg, will show. The extract believed do not interpret the Bible correctly low is taken from a well written article, the Azoic rocks as the oldest we know of. | cal journal in Europe: The Gneiss rock at Fairmount, belongs to this class. It is altogether probable that after fruitlessly trying all sorts of remedies the eye of man has never seen the rock which | in many chronic and obstinate diseases, at formed the original crust of the earth. In last succeeded in thoroughly bringing the Canada we have formations of this Azoic alimentary canal, that seat of so many dirock in the form of stratified Gneiss 50,000 seases, under my control. I did this by adfeet thick. Geologists suppose that this ministering milk according to a new method. rock was deposited not faster than one inch in a century. See what countless ages the tempt me to publish my observations with first group would take! Above the Azoic reference to the efficiency of this mode of rocks, (in some places, 16 miles in thickness above them) we find chalk and limestone tered with method, and by a person of exrocks. This class of rock was built entirely, perience. And in the first place, then, must it is thought, by coral insects, and they are we attribute the beneficial influence of milk known to build but a few inches in a century. in certain serious illnesses merely to its It is impossible for the mind of man to con- nutritive qualities, or to some occult mediceive the countless ages that have passed in cinal virtue? I cannot pronounce in favor the slow formations of the earth's crust. of the one or of the other hypothesis. It The Weald formation in England shows a must be remembered, however, that milk cliff worn away by the sea, that would require one hundred millions of years to wear away as much as shows the marks of such agency. It is no wonder that Geologists con-

template fossils, which reveal these sublime

movements of the Creator, with awe and

find the mastodon and a class of elephants

which are totally extinct now. By the fos-

sil remains then, of the various strata

we read them and determine the correct

Rocky Mountains, and to contort and twist about the vast strata of the Apalachian or a consequence of obscure sub-acute inflam-Allegheny chain, next came under review. Then the Temple of Scrapis in Italy, showing how that ruin proved the lowering and | these cases, I consider milk as the best and subsequent rising of the coast of Italy, was described. Niagara Falls next came under where dropsy is the result of organic heart review. Queenstown Heights were once the shore of Lake Ontario, and the Falls tumor of far advanced Bright's disease, I have bled right over the bluff at Queenstown, seen very marked improvement take place, into the lake. By degrees they have worn which also lasted a considerable time. But their way to their present position. Mr | if, unfortunately, we are unable to cure or-Lyell visited them in 1841, and computed ganic disease, shall we not have conferred a that they had been 31,000 years wearing great benefit on poor anasarcous patients if their way backward to where they now fall, say one foot each year. From the slight inclination of the strata, the softer rocks formerly worn away, are much deeper at the falls, than at Queenstown; and the present hard rock over which the water now tumbles, will last for 600,000 years before it is worn back to Lake Erie—so that the present generation about Queenstown, need not fear an inundation. From the whirlpool there is an old channel down to milk. Its temperature must be made to the lake, which was gradually filled with a lecture on Geology before the above Association on a recent Friday evening. He said, I am happy to Lecture on such a subject showing the formation to be that of the Terdeposit containing lake shells, but among before an association of this stamp, for Geolitiary period. Formerly the river flowed in ogy has no teachings which are contrary to this channel; but the whirlpool, in a former the teachings of the Bible. We find all ani- age, turned the river to the right, and made mals and plants grouped into families. God the route now taken by the stream, which grouped them, not scientific men, and He has since been cut down to the present

The study of Geology stands next to that first dawn of life down to the present period of Astronomy in sublimity. The astronomer investigates the field of the universe, other, as Darwin would have us believe, but -the successive steps not running into each which he has found to be not less than six each an advance upon the former one, and thousand millions of miles in diameter. He replacing it. The same law holds good in over, unless the patient has a strong will is compelled to be an earnest worshipper of plants. In the Devonian age we have and firm faith in the cure. During the sethe Creator of such a universe. The Geologist | rushes in the Carboniferous Ferns. In the studies the earth alone—one little speck—an Jurassic and Cretaceous, the first plants like atom in space, but his studies include the our fruit and forrest trees. Through milmillions of years of time required in the lions of years, no tree existed on the earth four times daily—at 8 in the morning, at changes of the earth's crust. He peoples it in advance of gigantic Rushes, Ferns, &c. noon, at 4, P. M., and at 8, P. M. If the changes of the earth's crust. He peoples it in advance of gigantic Rushes, Ferns, &c. with the animal or vegetable life of the ages In the Cretaceous period the leaves were that passed away millions of years before man came upon it—as I shall show presently. very plain, but in the Tertiary period more beautiful and like our own. In the Jurassic A sort of inspiration is given to the pro-found students of nature. Cuvier conceived ed with vast marshes filled with myriads of some regularity while subjected to it. No conthe great idea of dividing all animals into 4 reptiles. Man could not have lived then. fidence can be inspired, and no cure expected, was the greatest step in advance ever made profound thought, a wise plan arranging you wish."

> The prophetic types of animal life were then dwelt upon, when the Professor closed with the promise of greater developments still in store for the Geologists. We must not forget that the science is as yet, but 60 years old; that it is not long since that Prof. Sillivan carried all the specimens belonging to Yale College to England in a little box, to have them named by the students of Mineralogy and Geology of Great Britain.

Such lectures as this must accomplish the ardent wish of Professor Hayden, to have

Rural Kronomy.

IS SNOW A FERTILIZER?

"Farmer," of Sullivan county, New York. writes: "I have frequently heard it said that snow is very beneficial to land, and hence it is sometimes called the 'poor man's manure.' Although this is a commonly received opinion, I have hitherto failed to meet with any one who could explain it upon philosophical principles, and have been led to doubt the truth of the assertion. Why is it said to be so?"-Answer-Snow absorbs from the atmosphere very considerable quantities of ammonia, which is especially abundant in the air near cities, as it is set free from coal and other fuel. It is a warm covering, protecting the plants covered by it, especially such as the grasses and winter grains. from the unfavorable action of frost, for it matters little how deeply the ground is frozen-a good bed of snow lying upon it for several weeks will thaw it all, and even permit a growth of grain and grass to take place under it. When it melts, the soil has the benefit of the ammonia, and any fertilthe fossils of one phase pass into either of the | izing dust that the snow may have caught, others. So in the pleiocene period, the last and the snow-water besides contains much oxygen-hence the effects which are like those of manure, and the reason for the popular judgment, which is quite right.—American Agriculturist.

MILK A CURATIVE AGENT.

Surely there is something new under the when we held to this view. We speak of which appeared recently in a leading medi-

With regard to my own practice I have, The results which I have thus obtained cure, provided, of course, that it be adminisand chyle resemble each other very closely. After a great deal of experience, I have arrived at the conclusion that in all dropsies, in asthma, when the result of emphysema and pulmonary catarrh; in obstinate neuralgia, when its causes lie in the intestinal canal in diseases of the liver, (simple hypertrophy The infinite force required to upheave the and fatty degeneration,) and generally in diseases where there is faulty nutrition, often mation of the stomach or intestines, followed by affection of the nervous centres-in all surest of remedies. Even in those cases we reduce, with a promptitude little hoped from other remedies, the distressing symptoms of cedema?

I generally commence the cure by employing milk alone, and forbidding all other kind of nourishment. I proceed with great cau-tion in prescribing for the patient, three or four times daily, and at regularly observed intervals, half a tumbler or a tumbler-that is, from two to six ounces-of skimmed suit the patient's taste. In winter they generally like tepid milk, heated by placing the tumbler or cup in a vessel filled with hot water. In summer they generally prefer it of the same temperature as the surrounding atmosphere. They should not gulp it all at once, but take it slowly and in small quantities, so that the saliva may get well mixed with it. Of course, the milk must be of good quality. That of town-fed cows has generally an acid reaction; that of countrygressive development of animals, from the red cows is better, because its reaction is irst dawn of life down to the present period generally neutral. If the patient digest the milk well, which is proved by the fæces becoming solid, I gradually increase the dose. The first week is the most difficult to get cond week two ordinary quarts are generally administered each day. If the cure take its regular course, then the milk must be drunk patient desire it, I change the hours; but I always insist on regular intervals being observed, for the patient will think lightly of

PRAIRIE PASTURES.

Every succeeding year's experience is contradicting the the generally conceived idea that prairie land is not well adapted to the production of the tame grasses. Especially is this true of the older grazing portions of Central Illinois. In a recent conversation with an extensive stock grower of Logan county, a former resident of the renowned blue grass region of Kentucky, he affirmed that he could keep more stock on an acre our young men rise to a love of scientific of blue grass pasture upon his present farm than upon any equal amount of land he had ever seen before. It is also a fact, we be-Knowledge is necessary to the perception | lieve, that the older the pasture becomes, if properly treated, the better the yield of

grasses. Blue grass and white clover seem to come into our pastures spontaneously, together with a proportion of other varieties that keeps up a succession of feed. There are some soils, of course, here as elsewhere that do not "set" well to grass.—Prairie

CLIMAX.

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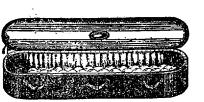
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