

## SCIENTIFIC AND SANITARY.

It is reported that recent borings for artesian wells in South Dakota have disclosed an extraordinary variety of clays, gravels and quicksands hundreds of feet deep, beneath which is a hard rock resembling granite. The cretaceous formation abounds with remains of plants, animals and fossils, among which are those of a fig tree and five new species of fish, three of them heretofore unknown to science. This of itself is interesting, but most extraordinary is the conclusion drawn by scientific men that the area lying between the quartz line and the Laurentian-Huronian line was once the bed of a sea.—*New York Recorder*.

A CLEVERLY designed instrument, by means of which the profile of a river bed can be taken automatically, has been invented by a German engineer. The record can be taken from a boat at the rate of  $3\frac{1}{2}$  to  $6\frac{1}{4}$  miles an hour. The apparatus consists of a curved arm, which is hinged at its upper extremity, and is so long that the lower curved portion trails on the bottom of the stream. The deeper the stream the greater the inclination of the arm, and hence, by a suitable recording mechanism, the depth can be automatically registered on a revolving drum as the boat moves. The instrument has already made a record in practical testing of 297 miles in ten days. *Louisville Courier-Journal*.

A LETTER received in St. Paul from the Menage exploration expedition records the discovery of a new race of people in the Philippine Islands. "It had been decided to make the ascent of the highest mountain in the Philippines, and it was when a height of 1,200 feet had been reached that it was first discovered that the mountains were inhabited, and by an entirely different people than had ever been seen in the lowlands. After several attempts to photograph a group the feat was accomplished. It took a good deal of manœuvring, as the natives were not up with the Kodak craze, and imagined that the camera was on the scalp hunt."

A two year old girl was brought to Professor Ranke in the children's hospital at Munich, who was suffering from dropsy in consequence of cirrhosis of the liver. Professor Ranke says that its foster-mother had confessed that she was in the habit of taking the child with her into the saloon, often in the morning, sometimes staying till midnight. The child drank at least a glass and a-half of beer daily, and the other frequenters of the saloon often made the little one drunk out of sport. It could drink a glass of beer at one draught. The illness had commenced three months previous, and there is no doubt that this is the same liver affection, which is so often a consequence of drinking, and that sooner or later proves fatal.—*Belletristisches Journal*.

## "August Flower"

Perhaps you do not believe these statements concerning Green's August Flower. Well, we can't make you. We can't force conviction into your head or medicine into your throat. We don't want to. The money is yours, and the misery is yours; and until you are willing to believe, and spend the one for the relief of the other, they will stay so. John H. Foster, 1122 Brown Street, Philadelphia, says: "My wife is a little Scotch woman, thirty years of age and of a naturally delicate disposition. For five or six years past she has been suffering from Dyspepsia. She became so bad at last that she could not sit down to a meal but as soon as she had eaten it. Two bottles of your August Flower have cured her, after many doctors failed. She can now eat anything, and enjoy it; and as for Dyspepsia, she does not know that she ever had it."

**Doubting**

**Thomas.**

**Vomit**

**Every Meal.**

DR. E. C. MAPOTHER says in the *British Medical Journal*: Several cases of shedding of hair after influenza have confirmed my opinion that diet has much to do with the production and with the cure of symptomatic alopecia. Hair contains 5 per cent. of sulphur, and its ash 20 per cent. of silicon and 10 per cent. of iron and manganese. Solutions of beef, or rather of part of it, starchy mixtures, and even milk. . . . cannot supply these elements, and atrophy at the root and falling of hair result. The colour and strength of hair in young mammals is not attained so long as milk is their sole food. . . . The foods which most abundantly contain the above-named elements are the various albuminoids and the oat, the ash of that grain yielding 22 per cent. of silicon. With care these foods are admissible in the course of febrile diseases. . . . I have often found a dietary largely composed of oatmeal and brown bread greatly promote the growth of hair, especially when the baldness was preceded by constipation and a sluggish capillary circulation. Those races of men who consume most meat are the most hirsute (hairy). . . . I have always found that friction of the scalp with pomades and lotions dislodges many hairs which might otherwise remain, and that cold or tepid baths with salt added and rough rubbing of the rest of the body will flush the capillaries of the affected part more effectually. Besides, when pomades are used, frequent washing becomes necessary, and this is conducive to baldness.

A MAGNIFICENT microscope has just been completed by the Munich Poeller Physical and Optical Institute for the great Chicago Exposition, at a cost of \$8,750. It possesses a magnifying power of 11,000 diameters. As might be expected, electricity plays an important part in the working of this gigantic instrument, which, after inspection, is expected to give an impetus to the Munich mart for scientific apparatus. The electricity furnishes and regulates the source of light, which placed in the focus of a parabolic aluminium reflector reaches an intensity of 11,000 candle power. The electricity also provides the means of an ingenious automatic mechanism for the centering of the quadruple condensers and illuminating the lenses. There is an arrangement for the exact control of the distance of the carbon point. The most important novel feature is the cooling machine, which is indispensable on account of the extreme heat, 1.43 calories per second, generated by the intense illuminating arrangement. A machine regulated by a Helmholtz electric centrifugal regulator provides the several microscopic and polariscopic systems of the apparatus with a fine spray of fluid carbonic acid, which immediately after its release from the copper vessel, in which it is held under a pressure of twenty-three atmospheres, becomes converted into gaseous matter, so intensely cold that only .00007 gramme of carbonic acid per second is required to give the result. The magnifying power of the apparatus with ordinary objectives, as has been stated, is about 11,000 diameters, but with the oil immersion it can be increased to 16,000.

CHURCH'S AUTO-VOCE SCHOOL FOR STAMMERING.—A few facts about this excellent institution may not be amiss to the readers of THE WEEK. The Auto-Voce School, 249 Jarvis Street, is under the personal supervision of Mr. S. T. Church, the author of the auto-voce method for stammering, and is continually filled to its utmost capacity with students from the city and elsewhere. No advance fees are required, the fee for training being payable at the end of the course, providing those interested are fully satisfied with the results of the training. No drugs, surgery, hypnotism or magnetism are introduced. After having passed through the auto-voce course the students are not dependent on certain fixed principles which, if relaxed, would cause a relapse into their former wretched condition; but, on the contrary, they enjoy that perfect freedom and naturalness in voice delivery that the person who has always had the free use of the vocal apparatus usually possess. Each and every case under the auto-voce method has been an unqualified success, notwithstanding the many difficulties which are usually encountered in the early history of almost every educational venture. We understand that a full and complete report of the results already achieved is sent to any person on application.

## COMPOUND INVESTMENT PLAN

Of the North American Life Assurance Company.



Notwithstanding the advantages of the plans already explained, the Company recognizes the fact that there are many who are unwilling or unable to pay the premium necessary to purchase a full return premium policy, but who consider that in event of death toward the latter part of the Investment Period a dividend should be paid on the policy, also that there are others again who doubt their ability to pay their premiums regularly for a term of fifteen or twenty years, and who are thereby prevented from securing an Investment Policy.

It was to meet these two objections that the Compound Investment Policy was introduced by the North American Life.

The peculiar features of this form of policy are applicable to all Semi-Tontine Policies and fifteen and twenty payment life and fifteen and twenty year endowments, with, respectively, fifteen and twenty years' Investment Periods.

After the policy had existed for ten years, should death occur previous to the expiration of the Investment Period of fifteen or twenty years, a dividend will be paid with the face of the policy, consisting of the 11th and each subsequent premium.

It is also guaranteed, that after the policy has existed for ten years the 11th and subsequent premiums will be lent, if required, the insured paying thereon interest annually at the rate of 6 per cent. If insured should die before completion of the Investment Period, no deduction is made from the face value of the policy, as the guaranteed dividend cancels the amount of the loan.

If the Compound Investment Policy be on the 20 payment life plan, should the insured survive to the end of the Investment Period, the following options are secured by the policy, any one of which may be selected, and which may then be most suitable to the circumstances of the holder of the policy:—

1st. Surrender the policy to the Company, and in lieu thereof receive its full cash value.

2nd. Withdraw the investment dividend in cash, and in addition have a paid up policy for its full face value, payable at death.

3rd. If insured in good health, use the cash dividend to increase such paid-up policy.

4th. Leave the whole amount of cash with Company, and in lieu thereof receive an annual income for life.

5th. Take a paid-up policy for the full face value, and in addition use the cash investment dividend to purchase an annual income for life.

If there is any debt against the policy, that sum will first be deducted from the cash investment dividend. Upon application at the Head Office or to any of the Company's agents, information respecting the Company's investment plans of insurance will be given; or, if you forward your address and state age next birthday, the Company will send you full particulars.

WM. McCABE,

Managing Director,

Head Office, 22 to 28 King St. W., Toronto.

## DR. T. A. SLOCUM'S

OXYGENIZED EMULSION OF PURE COD LIVER OIL. If you are Feeble and Emaciated—Use it. For sale by all druggists.

It is a matter of astonishment that so many women suffer in silence the troubles peculiar to their sex, when Dr. Williams' Pink Pills are an unfailing cure. Suppressions, derangements, weakness, etc., especially yield to their treatment. Sold by all dealers or by mail on receipt of price (50c. a box) by addressing Dr. Williams Med. Co., Brockville, Ont.

THAT tired feeling now so often heard of, is entirely overcome by Hood's Sarsaparilla, which gives mental and bodily strength.

"JUST AS GOOD," say some dealers who try to sell a substitute preparation when a customer calls for Hood's Sarsaparilla. Do not allow any such false statements as this induce you to buy what you do not want. Remember that the only reason for making it is that a few cents more profit will be made on the substitute. Insist upon having the best medicine—Hood's Sarsaparilla. It is Peculiar to Itself.

## 40 lbs. in 60 Days

## Remarkable Improvement in Health

## Statement of Facts from a Prominent Vermonter.

We call attention to the statement below from Mr. J. A. R. Corwin of Chelsea, Vermont, known not only in his own town, but all through the State as a man of the strictest integrity and uprightness. Mr. Corwin has long been proprietor of a general store, and for many years has been town clerk, selectman, and held many other positions of responsibility and trust.

"Chelsea, Vt., June 16th, 1891.

"My son had a severe sickness last winter, and after his partial recovery he was very weak, had no appetite and grew very poor, weighing only ninety-one pounds. At the suggestion of Wm. F. Hood's he commenced the 16th of April to take Hood's Sarsaparilla and the result was wonderful. He regained his appetite and gained forty pounds in flesh, and now seems much better than at any time since his sickness." J. A. R. CORWIN.

N.B.—Be sure to get

## Hood's Sarsaparilla

Sold by all druggists. \$1; six for \$5. Prepared only by C. I. HOOD & Co., Lowell, Mass.

100 Doses One Dollar.

THE legend "048" is well known to most writers in this country. It is the number of Esterbrook's most popular pen, the Falcon.

THE electric lighting plant of the new Masonic Temple in Chicago will probably be the largest isolated plant in the world. The generating plant will consist of six 80,000 Watt dynamos, and provision will be made for between 7,000 and 8,000 incandescent lamps.

A CORRESPONDENT of the *Standard*, writing from Lake Zürich, states that some novel and interesting experiments have recently been made on the Lake of Zürich with a steamboat built entirely of aluminium, which claims to be the first of its kind. The boat weighs only about half a ton, viz., about half the weight of an ordinary boat of the same size. It was built at the works of Messrs. Escher, Wyss and Company, of Zürich, the metal having been furnished by the Aluminium Works of Schaffhausen, where it is obtained by an electrical process, the dynamos being driven, not by steam engines, but by turbines, which utilize the water-power of the celebrated falls of the Rhine, so that the boat claims to be exclusively the product of Swiss labour and power. It carries eight persons, and, with a petroleum engine of only two-horse power, easily makes six miles an hour. Aluminium not being subject to rust, the permanent colour of the boat is a beautiful dull white, whilst the chimney, being of polished aluminium, shines like silver. The trial trips of the boat were eminently successful, and it is anticipated that the construction of aluminium steamers, having the same capacity, and only half the weight of the iron ones now used on Swiss lakes, has a great future before it.

## A Skin of Beauty is a Joy Forever.

## DR. T. FELIX GOURAUD'S

## ORIENTAL CREAM, OR MAGICAL BEAUTIFIER



Removes Tan, Pimples, Freckles, Moth-Patches, Rash and Skin Diseases, and every blemish on beauty. On its virtues it has stood the test of 40 years; no other has, and is so harmless we taste it to be sure it is properly made. Accept no counterfeits of similar name. The distinguished Dr. L. A. Sayre, Dr. J. A. Sayer, said to a lady of the haughtiest (a patient): "As you ladies will use them, I recommend 'Gouraud's Cream' as the most beautiful of all the skin preparations." One bottle will last six months, using it every day. Also Poudre Subtile removes superfluous hair without injury to the skin. FERD T. HOPKINS, Proprietor, 37 Great Jones St., N.Y. For sale by all Druggists and Fancy Goods Dealers throughout the U. S., Canada and Europe. Beware of base imitations. \$1,000 reward for arrest and proof of anyone selling the same.