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THE DAILY EXAMINER
JANUARY 20, 1898.
SCIENTIFIC MISCELLANY.

TEMPERATURE AND ANIMAL VARIATION—
AUTOMATIC WINDOW SHADES A MAGIC VARIATION—JAMAICA'S GARDENS—IRON FELLS—THE LAW OF GRAVITATION FAILS—TYPHOID FEVER FROM VEGETABLES—AN EFFECTIVE BACTERICIDE.

Since 1887, Mr. F. Merrifield, of Brighton, Eng., has been engaged in an elaborate series of experiments in rearing butterflies and moths under various conditions of temperature. Three kinds of changes were especially noted in the new generations of insects—(1) general change, often striking in the coloring, without material alteration in the form of markings, but often much increase or diminution in their intensity; (2) change caused by substitution of scales of different color, either singly and scattered or so grouped as to cause a material change in pattern; and (3) change in general appearance due to imperfection in the development of scales or of their pigments. The first kind of change appears to be a direct effect of temperature, not affecting vigorous development. The second kind includes a case of what seems a reversion to an earlier form, and in the third the wings are often much reduced in size, and the scales scanty and often misshapen.

A window shade operated automatically is a Berlin novelty. A U-tube, partly filled with mercury, is connected with a bulb containing air; and when the sun shines, the absorption of the rays by the black wool causes the mercury to rise in the opposite side of the tube, closing the circuit of a motor that lets down the blind. When the sun is not out, the mercury is level in the two tubes, closing a circuit that winds up the blind.

Queen Jane's Pear Tree, recently blown down, was believed to be at least 600 years old, and the oldest in Central France. To discover whether a similar tree is elsewhere known, sections have been sent to all botanical societies in Europe.

Surveying by photography is gaining ground. Over 50,000 square miles have been photographically plotted and surveyed by the Surveyor-General of Canada.

Magic squares, in which the horizontal, vertical and diagonal rows of figures have each the same sum, have attracted many men of science. Mr. Daniel F. Savage, a Kentucky mathematician, has worked out terms of this kind up to the 100-square which uses all the numbers from 1 to 10,000, and which may be subdivided into squares having 25, 20, 10 and 5 numbers on each side, each of such subdivisions—a total of 406 in the case of the smallest—being a perfect magic square. These combinations of figures have other curious and fascinating properties. The combin-

ations are formed now by rule, the possible variations being too appallingly great—amounting, we are told, to 68,890,664,150,886,000,000 different orders for the numbers 1 to 25 alone—for one to hope to hit upon a large square as the early Arabians make the first simple ones, by the crude method of trial. In this array of changes however, it is further stated there are 57,600 possible 6-square, while the total possible transpositions of the numbers 1 to 16,000, each change giving a magic square, are represented by 1 with some 2000 places of figures! The "countless sands of the seashore" may give some faint conception of what this means. A handful of sand of medium fineness, 160 grains to the inch, will contain 1,696,000 grains if it measures one cubic inch; and thus a philosopher or child may grasp the million. To get into trillions would require a pile of sand one mile in its length, breadth and thickness. At this we stand amazed; but to get somewhere near the possible variations in the 100 square, the magic square of 1 to 10,000, we should have to lay down such handfuls of sand, each of a million grains, from the earth to Aldebaran.

The first Botanic Garden in Jamaica, according to Mr. W. Fawcett, was established about 150 years ago by a private individual. This was soon acquired by the Government and divided into a European and a Tropical Garden, but these did little to determine the value to the Colon of new and imported plants until about thirty years ago. There are now six Gardens—large and small—with greatly varied conditions of climate. The native flora is estimated to embrace 456 ferns and 2180 species of flowering plants.

An improved match has been produced in Westphalia. It is stated to have a basis of plumbate of lime, and to be free from phosphorus, whose use is so dangerous to the health of employes in match factories. The material now being manufactured near Berlin under the singular name of "iron felt" consists of long, strong wool fiber, which is impregnated with petroleum grease, and to a certain depth with glue rendered insoluble by bichromate of potash or formaldehyde. The surface, in some cases, is coated with vulcanite rubber and then vulcanized. The substance is highly compressed into plates about two feet square and two fifths of an inch to two inches thick, these plates being elastic, capable of withstanding a pressure of nine tons to the square inch, and having a surface of great hardness. It is also claimed that the material does not rot. The plates are intended for use under the rails of railway tracks for deadening the noise, and for the same purpose under stationary engines and other machines. They may serve also for electrical insulation.

The Newtonian law of gravitation, that every body in the universe attracts every other body with a force varying directly as the mass and inversely as the square of the distance, is questioned by Prof. H. Seeliger, of Munich, who is the first to offer evidences that the law must be inexact or not universal. This has arisen from an attempt to extend the law mathematically to infinite space. Prof. Seeliger was forced to assume either that the sum-total of the masses of the universe is infinitely great in which case Newton's law overstates the attractive forces, or that the Newtonian law is strictly exact, in which case the infinite spaces of the universe cannot be filled with matter of finite density. He is forced to conclude that Newton's great law is inexact.

The suggestion having been made that typhoid fever may be spread through the direct watering of vegetables with sewage Dr. Paul Remlinger has made experiments to determine whether rabbits and rats could be infected by feeding them on vegetables soaked with typhoid bacilli. In both cases typhoid fever was induced—only however, when the doses of bacilli were large and frequent.

A new German antiseptic called protogal is a compound of silver and protein. A one per cent. solution is reported to destroy the bacteria of anthrax and enteric fever.

ENTERTAINMENT AND BANQUET.

On Jan. 5th, 1898, the eve of Dr. A. E. Douglass' departure from O'Leary to resume his practice at Hunter River, a grand banquet and entertainment took place at the residence of H. W. Turner, Esq. After the Dr.'s many friends had assembled from far and near, Robt. Ellis, Esq., was appointed to preside. Then followed a very interesting and appropriate programme which was successfully carried out. Those who took part in the programme were Messrs Thomas Hogan, A. A. MacNeil, Geo. Johnstone, Thomas Smallwood, Wm. Dennis, Robt. Ellis Jr., Herbert Henntis, Charles Lidstone and others. After this followed games and various plays all of which were joyously participated in. The plays being finished all sat down to partake of the niceties prepared by Mrs. H. W. Turner. Toasts played a prominent part in the banquet all of which were humorously responded to and drank in the best of "Adam's Ale."

Finally the Doctor was presented with a very complimentary address which was read by Mr. Ivy Warren. The sentiments expressed in it bore testimony of his popularity as a physician and also gave expression to the esteem in which he was held as a member of the social circle. The address was ably and feelingly replied to after which was sung "And Langa Syne" and "God Save the Queen." Then all retired homeward highly pleased with the time spent at Mr. Turner's though greatly regretting the departure of Dr. A. E. Douglass.

Wonderful—Not a slack day in our tailor shop yet. All our hands working. We want more coat and pants makers to keep up with our work.—McKay Wooten Co., High Class Tailors.

Bookbinding His Hobby.

"The late Dr. Leonard R. Koecker," says the Philadelphia Record, "is generally conceded to have been the most expert student of the art of bookbinding of his times. Dr. Koecker was one of the earliest collectors of books and engravings in this country, and he was the only collector who became so infatuated with his hobby as to study and acquire expertness in every branch of bookbinding. As an amateur in layer and extra illustrator there are many who claim that he never had a superior. He was a veritable genius, for, besides his skill as a maker of exquisite books, he was also a clever clockmaker, a water colorist, a woodworker and a carver of ivory. It was pleasure for him to do all these things, and he spent most of his leisure time over the artistic binding of some dainty volume after a long day of work in his dentist's office."

False Teeth That Grow.

A Moscow dentist has solved the problem of supplying the human mouth with false teeth which will grow into the gums as firmly as natural ones. Dr. Zamesky has performed several successful operations on dogs as well as human beings. The teeth are made of gutta-percha, porcelain or metal, as the case may be. At the root of the false tooth holes are made. Holes are also made upward into the jaw. The tooth is then placed in the cavity. In a short time a soft granulated growth finds its way from the patient's jaw into the holes in the tooth. This growth gradually hardens and holds the tooth in position. It is stated that it does not matter whether the cavity in which the tooth is to be placed is one from which a natural tooth has been drawn recently or whether it has been healed for some years.—Moscow Letter.

Centuries ago, people used to fear what they called the plague. "Black death" was the most terrible thing in the world to them. They feared it as people now fear the Cholera and Yellow Fever. And yet there is a thing that causes more misery and more deaths than any of these. It is so common that nine-tenths of all the sickness in the world is traceable to it. It is merely that simple, common thing, constipation. It makes people listless, causes dizziness, headaches, loss of appetite, loss of sleep, foul breath, and distress after eating. The little help needed is furnished by Dr. Pierce's Pleasant Pellets. One pill is a gentle laxative and two mild cathartic. Once used, always in favor. If you are careless enough to let an unscrupulous druggist sell you something on which he makes more money, it is your own fault if you do not get well. Be sure and get Dr. Pierce's Pleasant Pellets.

Send 31 cents in one-cent stamps to World's Dispensary Medical Association, Buffalo, N. Y., and receive Dr. Pierce's 1008 page "Common Sense Medical Adviser," profusely illustrated.

A Famous Bandmaster.

There is in the German army a negro bandmaster named Sabac el Cher. Notwithstanding his name he is a native German, but his father came from lower Egypt and spent his boyhood at the court of the viceroy in Cairo, where he was educated. There he made the acquaintance of Prince Albrecht of Prussia, a brother of the old Emperor William, who took him to Berlin, where he married a Berlin woman and entered the service of the prince. His wife presented him a son in 1867. He was Sabac el Cher, a musical lad, who began to study the violin when he was 8 years old. Later he went to a conservatory, and in 1885 he entered the military service as oboe and trombone player in the Thirty-fifth regiment of royal Prussian fusiliers, Prince Henry of Prussia's. Having served there several years, he went to the Royal High School for Music in Berlin for further study, where he was under the most noted teachers. He passed his examinations in 1895, and in that year was appointed bandmaster of the First grenadier regiment at Konigsberg. He still retains this post, and his band has won much applause for its public performances. It appeared with success at the International Art exposition at Dresden.

A Reckless Cat.

London has a cat whose partiality for a nap in a warm spot is so marked that she has selected the top of a dynamo in a power station. She sleeps there calmly and peacefully while the machinery around and within six inches of her is running at a rate of 2,000 revolutions per minute.

Abbey's Effervescent Salt
TWO SIZES
25c 60c

This size is for regular use. It is so convenient that it contains more in merit at once. Of all druggists.

Book Lost.—A copy of Kipling's Barrack-room Ballad, loaned some time ago, had my name on inside of cover. Reward to whoever returns it. Archibald Irwin, Examiner Office.

ITEMS OF INTEREST.

Colorado expects to receive not less than \$6,000,000 from its big fruit crop this year, the greatest the state has ever known.

Australia could be made to support 400,000,000 inhabitants of the black or yellow races, who would be able to endure the climate.

Tomatoes have been grafted upon potatoes by a French experimenter, whose hybrid plant produces tubers underground and tomatoes above.

One of a gang of bank robbers lately arrested in Indiana said that in attempting to escape after one of their burglaries they rubbed onions on their shoes, and thus were able to throw the bloodhounds sent after them off the scent.

DISMISSED WITH COSTS.—The case of Janie Thompson, housekeeper for James Somer, against John A. Marks, of Margate, an action of damages for alleged reduction, was heard at Stanley Bridge yesterday before Dr. Macneil, J. P. After hearing the evidence of the plaintiff and defendant and several other witnesses, and after an able argument by Mr. K. J. Martin, of Summerside, the case was dismissed with costs against the plaintiff.

Health Improved

Stronger and Better Since Taking Hood's Sarsaparilla.

"I suffered with nervousness, fainting spells, pain in my head and loss of appetite. I was advised to try Hood's Sarsaparilla. I did so and I am stronger, sleep better and have a better appetite." Mrs. EMMA BAYLOR, Windsor, Ontario.

Hood's Sarsaparilla
Is the best—in fact the One True Blood Purifier.
Hood's Pills cure constipation. 25 cents.

We thank those who so promptly paid their accounts rendered this month. There are hundreds still unpaid; these represent thousands of dollars, which we require this month. We again request a generous response; receipts given each day from 8 a. m. to 6 p. m.—Stanley Bros.

Within fifty miles of the centre of Boston there is a population of 2,392,294. This is the most densely populated area of the size in America, except New York city and neighborhood. Comparative figures for other places are given: Within fifty miles of Philadelphia, 2,289,314; Chicago, 1,787,325, and within fifty miles of St. Louis, 874,486.

PLAN of reserved seats for Ategewit vs Wanderer's Hockey match at Apothecaries Hall.

IT DON'T PAY.

To buy drinks for the boys—it don't pay to buy drinks for yourself. It will pay to quit. But the trouble has been to do this. My Vegetable Cure will absolutely remove all desire for liquor in a couple of days, so you can quit without any self-denial, and nobody need know you are taking medicine. You'll save money and gain in health and self respect from the start. Medicine is perfectly harmless, is pleasant to taste, steady nerve, and does not interfere with business duties.—Full particulars sent. Mr. A. Hutton Dixon, No. 40 Park Avenue, Montreal. 4

LEGAL CARD.

Mathieson & Bentley
Barristers, Solicitors, Etc

OFFICES—
Cameron Block, Charlottetown
Main Street, Georgetown.
MONEY TO LOAN
J. A. MATHIESON, W. E. BENTLEY,
Georgetown, Charlottetown.
Jan 3—law & Ex & Pat 3mos; w Jo & Watchman 3mos.

Klondike.

Start from Vancouver Because

1. VANCOUVER is the best outfitting point on the coast, goods being considerably cheaper than in the United States.
2. VANCOUVER is the nearest port of departure to the Yukon district.
3. VANCOUVER is the terminus for the C. P. Railway, whose steamers will start from VANCOUVER this spring.
4. All north-bound steamers call at VANCOUVER.
5. Direct steamers to Yukon ports have now commenced to run from VANCOUVER.
6. VANCOUVER is the only Canadian port where passengers transfer direct from train to steamer.
7. KLONDYKE is in Canada, outfit in VANCOUVER, and save 30 per cent. Customs Duty.

W. GODFREY,
resident Board of Trade, Vancouver, B.C.

NOTICE
WHAT CAN'T BE CURED MUST BE ENDURED
But Have You Tried
A WEE DRAPPIE O' PATTISON'S P
Give up drinking poor spirits and try the best Scotland yields.
For Medicinal Purposes adulterated whisky is dangerous. For sidetown purposes it is abominable. A customer who once tries "A Wee Drappie o' Pattison's" is a customer always.
For sale by all leading wine and spirit merchants, and wholesale by
For Sale By All Licensed Vendors

200 Bicycles Wanted
To be stored (free of charge) for the winter, and cleaned, repaired, nicked or enameled, thoroughly renewed, ready for spring.
ENAMELING
We use the highest grade Enamel (black or colors) that money can buy in New York, and bake it on in a manner that the most fastidious cannot criticize, and the cost is the same as others charge for ordinary paint. See sample at shop.
W. P. DOULL, Kent Street

ladies' jackets
The balance of our stock of above all new; this fall's importation with the exception of six
We offer them at sacrifice prices to clear at once. It will pay any buyer to see them
T. J. HARRIS, London House

We are Fully Equipped
For the Holiday Season with a complete stock of nice lines of Footwear.
We have all kinds of Shoes; low Shoes, honest Shoe dancing Shoes and Temperance Shoes (that don't go tight). Slippers in great variety, Rubbers, Overshoe Gaiters, etc.

Big Values, Low Prices, Honest Goods, Best Style
Will make almost any one happy. We are more than happy to think that we have pleased you in the past, and know that we can do so now better than ever:

Weeks & Warren

THANKS

To our many friends, who helped us do such an excellent trade during the past weeks.
VERY LOW PRICES
still continue on nearly all lines, for a few days.

G. F. HUTCHESON
Opp. J. D. McLeod's.

Ayer's Asthma Cure

better known as Ayer's Cherry Pectoral, has made a record for its remarkable cures of asthma. Cases that have been considered beyond hope or help have been cured by this remedy. We give two examples of such cures out of the many on record:
"My mother has been a great sufferer from asthma for the past ten years, and her recovery is almost without a parallel. On account of her advanced age—over seventy—we had but little hopes of ever seeing her well again; but we are sincerely grateful to inform you that she has been entirely cured by the use of Ayer's Cherry Pectoral."
INGLIS BANKS, Tar Brook, N.S.
"I was a sufferer for a long time from asthma, vainly endeavoring to procure relief in the use of ordinary remedies. At length I was induced to try a bottle of Ayer's Cherry Pectoral. The first bottle afforded me so much benefit that I continued the use of the remedy until entirely cured."
JOSEPH KLONZ, Charlotte, N.C.

Ayer's Cherry Pectoral
Best medical advice free. All diseases. Address Medical Dept., J. C. AYER CO., Lowell, Mass.