SCIENTIFIC MISCELLANY

A French Flying Machine—Money Value of Accurate Science—A Gas Engine of High Efficiency—Life at Best—Submarine Photography—A New Theory of Rabies—Cranmic and Conciphonic Blind Exterminators—Compressed Fiber.

The steam-propelled aeroplane of Messrs. V. Tatin and Charles Richet has a very light silk-covered wood frame, to which are attached by steel wires, two similarly constructed food wings and a tail. A steam engine drives two screw propellers—one at each end—rotating in opposite directions. An experimental apparatus recently tested had about 1½ square yards of wing surface, weighed about 22 pounds, including water and coal for a flight of three miles, and developed a speed of 26 yards a second, the size and speed being considerably greater than those of Langley's aerodrome. The longest flight thus far has been about 150 yards, the machine having a tendency in the present stage to take headers. The start is made on a car sailing down an inclined plane 82 yards long, at the end of which the aeroplane is automatically released for free flight.

The accurate determination of the atomic weights is shown by Prof. H. W. Clarke to be a matter of real practical importance. The atomic weight of chromium is still placed by European analysts at the old determination of 52.6, while American and chemists have adopted the corrected value of 52.1. A result is that chromic iron, which is imported by the Baltimore Chrome Ore works in cargoes of about 2,500 tons, is valued by Glasgow assays at $36.56 per cargo more than by Baltimore assays.

The novel feature of the gas motor of Herr Diesel, of Munich, is stated to be the bringing of the fuel in the work-ing cylinder into contact with air so highly compressed as to be intensely hot. The engine may be adapted to use coal dust, petroleum or coal gas, the second form consuming about 85% of a pound of petroleum per horse-power hour.

The measurement of a degree of latitude in Spitsbergen is a Swedish project, Russian co-operation to be invited.

Much of the problem of life is intermingled with that of the vitality of seeds, which is still a matter of difference among biologists. Some hold that there is simply a slow waning of life in the dormant seed, imperceptible change and restriction continuing for a time, while others believe that the vital machinery is brought to an absolute rest for a time, to be started again when external conditions become favorable. In a recent Royal Society paper Messrs. Horace T. Brown and G. Escombe pointed out that the former hypothesis overlooks the remarkable evidence available. The seeds of Romanes kept seeds fifteen months in a vacuum followed by an atmosphere of carbon monoxide, carbon dioxide, hydrogen sulphide, ether, chloroform, and other gases and vapors, and such treatment had little effect upon subsequent germination. There could have been no respiration or ordinary kind. In the Pictet and C. de Candolle exposed seeds and microbes for days to a temperature of 80 degrees below zero C. without ill effect; and the authors have since been enabled by Prof. Dewar to keep seeds at 183 to 252 degrees below zero for 118 hours, still with no perceptible influence on germination. Chemical seeds are being sanitized by the use of gases below zero, molecular interchange in the protoplasm is likened by C. de Candolle to that of an explosive mixture, whose components can remain indefinitely in contact without combining until a certain temperature is reached.

A photographic apparatus for divers on submarine excursions has been devised by Remor Bertens, of Rio de Janeiro. It consists of an incandescent lamp with reflector in the diver's headpiece, and an ordinary camera enclosed in a rubber envelope having a glass front. Electricity for the lamp is supplied by a small dynamo in a boat above. Pictures taken by pressing buttons through the rubber covering, and objects in Rio de Janeiro Bay have been photographed under water at a distance of ten or twelve feet as easily as in full daylight.

Hydrophobia has annual instead of bacterial origin, in the view of Dr. Karl Grigorjew, German biologist, who has isolated what appears to be a poison from patients suffering from rabies.

In dealing with chronic constipation, the bane of so many persons' existence, massage of the abdomen and electricity are expensive and require too much time, while drugs ordinarily soon lose their action, leaving the patient more constipated than before. Dr. Vladimir de Holstein of Paris, reports the best results from the use of enemeta, which he says are better on the whole—because of that of a purgative—of neutralizing some of the annoying inaction of the intestinal tube. The enemata should be given nude in water or other liquid, beginning with a small dose and a single drop—on account of the burning sensation, and increasing gradually to seven or eight ounces, the treatment of this proves insufficient. The dose is to be administered twice daily after meals. The liquid may be simple water or a mucilage, and it is found not only to remove the constipation but to increase the appetite and improve the general condition.

An idea of the fearful slaughter of birds that is steadily going on may be had from the fact that in the City of London alone nearly half a million birds were sold at an auction in London, March 1 of the present year. Among those given the following names by Mrs. Edward Phillips: Osprey plumes, 15,000; aigrettes, 2,000; egrets, 3,000; roundy peacock feathers, 20,000; bird-of-paradise skins, 2,000; Indian paradise skins, 1,000; Indian crane skins, including the pairs, 1,000; tanagers and sundry birds, 3,000; humming birds, 10,000; jays and magpies, 1,000; parrots and other pheasant and jungle fowl, 4,000; owls and hawks, 2,000. There was a similar sale in London in 1875, others to follow in July and October.

Plate compressed bits bricks by hydraulic pressure, the material occupying only one-half as much space as the same weight of loose material. Such bricks are said to be stronger, denser and more uniform than the ordinary article, and to absorb less moisture. Results thus far appear to justify the claims made for the process, manifested by compress, and in the free sounds and ring from the attacks of the weather. Such bricks, it is said, may be safely stored for a long time.

Pennsia now has 2,827 steam engines for electric generation of 146,205 horsepower, the increase of engines having been 1,000 and of horsepower 50,000. Ten per cent of all the engines are used for electric lighting purposes.

She Baffled the Villain.

Some little while ago a magnificent specimen of human baby was exhibited in New York, not an unlikely town to raise magnificent specimens, and no doubt the mother of four inches in length was the envy of all her neighbors. But there is one individual beauty would have been enough to satisfy it an interest, for the story attached to it made it doubly interesting. It came from the head of a Brazilian peasant girl, who had two lovers, the one a poor peasant servitor in small paddy ways and the other a rich miller. The latter owned the cottage in which the girl lived, and subsequently refused, and losing an attack and superstition as he was, he resolved to be revenged on the girl and her lover. He therefore went to the girl and put forward and her mother out of the cottage, and they were forced to go to live with the peasant lover. He feared now taken to the peasant lover at Lorena and there sold to an American dealer.—Chicago News.

Bright and Brief.

Brother goes forever in your friend's suitcase and leaves upon his grave.—Brooklyn (Ala.) Tribune.

It is wonderful how easy a person can go down hill when he starts in to do or get up.—Ohio State Journal.

Austria says: "I will suppress the souls and destroy the fruits of his industry." Germany says: "I will do it in fact that has so ordained."—Volney.

"Our strength grows out of our weakness. Not until we are pricked and stung and sorely wounded do we learn the lesson that 'whom grace fastest with sacred fetters.'"—Emerson.

"77"

FOR

GRIP

All Colds are tainted

with Grip when Grip prevails. "Seventy-seven" breaks up Grip and Colds that hang on.

During treatment and recovery the vitality is sustained by the tonic properties of "77," you come out cured, strong and vigorous, not a Grip wreck.

25c* A 25c vial leads to a Dollar Bask.

At druggists or sent on receipt of price.

Ask for Dr. Humphreys' Special Pamphlet, all diseases at your Druggists or Stated free. Humphreys' Medicine Company, New York.

DELINQUENT NOTICE.

Crown Point Mining Company. Principal Office, Room 21, Atlas Block, City of Salt Lake, State of Utah.

Location of works and mines in Uintah Mining District, Park City, Summit County, State of Utah.

NOTICE—THERE ARE DELINQUENT on the following described stock on account of assessment No. 1, levied on the 30th day of October, 1897, the several amounts opposite the names of the respective shareholders as follows:

Name.	No. Certificate.	No. of Shares.	Amount.
L. P. Boyle	29	2000	$100 00
C. C. Goodwin	30	2000	100 00
M. J. Chesterfield	124	500	25 00
M. J. Chesterfield	125	500	25 00
M. J. Chesterfield	126	500	25 00
M. J. Chesterfield	127	500	25 00
J. W. Duncan	75	5000	250 00
J. W. Duncan	76	5000	250 00
J. W. Duncan	77	5000	250 00
J. W. Duncan	78	5000	250 00
J. W. Duncan	79	5000	250 00
James Horton	36	20000	1000 00
W. H. Harkness	38	20000	1000 00
W. J. Ryan	62	5000	250 00
W. J. Ryan	63	5000	250 00
W. J. Ryan	64	5000	250 00
W. J. Ryan	65	5000	250 00
W. J. Ryan	66	5000	250 00
W. J. Ryan	67	5000	250 00
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W. J. Ryan	73	5000	250 00
W. J. Ryan	74	5000	250 00
W. J. Ryan	117	5000	250 00
W. & McCormick trustee	118	20000	250 00
Jane Sullivan	1	5000	250 00
R. A. Page & Co	31	700	35 00
Joseph H. Parish	80	1000	50 00
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Total amount $12 50

And in accordance with law and by order of the board of directors made on the 15th day of November, 1897, so many shares of each parcel of stock as may be necessary will be sold at public auction to the highest bidder for cash, at the office of the company, No. 21 Atlas Block, Salt Lake City, Utah, on the 15th day of January, 1898, at 2 o'clock p. m., or so much of said stock as may be necessary to pay the delinquent assessment thereon, together with costs of said sale.

By order of the board of directors.

LEWIS M. CLARK, Secretary.

NOTICE.

To all persons interested in the estate of Mary and Brandt:

A CT PASSED BY THE LAST Legislature requiring all owners of live stock, having a mark or brand, to have the same recorded before March 15, 1898, after which date all marks and brands not recorded will not be entitled to any protection in law.

Blanks for applications for such to record-ing may be obtained from the County Clerk. It is by them distributed to the precincts in their respective counties, and by the Deputy Sheriffs, which blanks bear the full law herein referred to.

In case that any should be unable to obtain the printed blanks, they can make applications in their own words, stating the number of marks or brands and giving the dates when the certificates were issued if such can be ascertained by the applicants.

The law is the opinion of the Attorney-General, when was submitted, the application of an heir for such is recommended as marks and brands, and that the publication to the name of a deceased will not be substituted, unless the heirs shall have filed with the County Clerk evidence of assignment.

Notice of postal card will be sent to every person whose application has reached the office of the Clerk more than January 1st, in order that other applications may be made in case any have been omitted.

The Clerks are to receive and compile the applications in alphabetical order after the 15th of March, and publish the same in