

FOREIGN SCIENCE.

Teeth of the Arabs.

At a late sitting of the Societe Medicale du Pantheon, Dr. Quatin read a paper on dental hygiene among the Arabs. Their teeth are always remarkably white, a circumstance which the author attributes to the almost exclusive use of confectionery as an article of food, and of coffee without sugar as a beverage, besides water. But this is not all; the Arabs rinse their mouths several times at the beginning of each of their four daily ablutions, and thereby any dirt adhering to the teeth is washed away. The teeth are carried away. They also chew, about once a week, a bit of bark of a tree, called *soot*, and which seems to be akin to the walnut root; the bark must not, however, be chewed till it reduces to the consistency of a pulp, but, when softened by the saliva, it is taken out, the teeth are rubbed with it, and then wiped with the burrous, which is white.

A New Fire Alarm.

The *Union Medicale* has a paper by Dr. Duifay on a curious and useful invention, due to the ingenuity of a celebrated ex-conjuror, M. Robert Houdin. The object in view is to give the alarm of fire at the very commencement of the threatened catastrophe, and the following description will show how this is accomplished:—Suppose a copper lamina and a steel one to be soldered together by their surfaces, so as to form a single blade, copper on one side and steel on the other. Let it be fixed vertically by one of its extremities to a board, without, however, quite touching it, in order to avoid all friction. The arrangement will be best understood by supposing a knife to be brought close to the board, so that the inclination of cutting is greater than that of steel, it follows that the steel one will be bent, the concave side being the steel one; and if the heat applied be sufficient, a contact will be effected between the blade and the board, and the knife will cut through the board. Now suppose the steel one to be fixed on the board, on the steel side of the blade, and at a short distance from it. This knob is connected with one of the poles of a voltaic battery, the other pole of which communicates with the wire which secures the fixed extremity of the blade, and with one of the telegraph offices to prepare the clerks for the reception of a message. Now let the blade be warmed; as it is with the inclination of cutting greater than that of steel, it follows that the steel one will be bent, the concave side being the steel one; and if the heat applied be sufficient, a contact will be effected between the blade and the board, and the knife will cut through the board. Now suppose the steel one to be fixed on the board, on the steel side of the blade, and at a short distance from it. This knob is connected with one of the poles of a voltaic battery, the other pole of which communicates with the wire which secures the fixed extremity of the blade, and with one of the telegraph offices to prepare the clerks for the reception of a message. Now let the blade be warmed; as it is with the inclination of cutting greater than that of steel, it follows that the steel one will be bent, the concave side being the steel one; and if the heat applied be sufficient, a contact will be effected between the blade and the board, and the knife will cut through the board.

Value of Ants.

It has often been asked what ants are chiefly good for, especially the termites, which are the terror of the inhabitants of tropical countries. The *Observer* answers the question by stating, on the strength of the testimony of a traveller recently returned from Western Africa, that the equatorial regions would be uninhabitable were it not for the ants that are constantly engaged in clearing a way all pretentious matter. Their number is incalculable, and their voracity astonishing. The lives they build themselves in the earth are in the shape of a pyramid, with a square base, and a height of ten feet in diameter.

Rain.

While Western Europe had been drenched with rain throughout the summer, it appears from the latest accounts that they have been eleven months without either rain or snow at Pekin. This is, in China, a great public calamity, which is sought to be averted by fasting, prayer, and expiatory ceremonies. In the summer of 1864, the drought was so great that the Emperor himself issued a royal decree, in which he expressed his anxiety for the welfare of his people.

Amber.

This word is derived from the Arabic. The well-known substance so called is a fossilized resin of certain unknown coniferous trees, of the fir or pine genus. Great virtues are attributed to it by the ancients. Pliny tells us that Sophocles held amber to be the petrified tears which the birds of Melagor dropped to the memory of that great hero of mythology. Amber has been among the moderns a subject of great discussion. The mystery in which it was involved was increased by the circumstance that Hebrew and Arabic characters were often found engraved upon it, in a perfectly legible state. Dr. Thomas, of Koenigsberg, has given us the explanation of this singular fact by stating that the pieces of amber, which are found, are neither more or less than seals. Many of them are preserved in the Museum of Portici, but chiefly brought thither from Herculaneum. It is certainly astonishing that, having invented seals, the Romans should not have followed up the idea, and invented some sort of printing process for their writing. Never was there a broader hint given to man, and yet it took a thousand years to bridge over the gulf which lies between seals and movable type. The largest known deposit of amber lies on the Prussian coast of the Baltic; it is found in a bed of lignite, which is supposed to extend far under the sea. Another deposit of amber lies almost horizontal on the outskirts of Duvichem, at a depth of only four feet from the surface. Pieces of amber are often found lying on the coast after a storm; thus, on the 1st of January, 1845, upwards of 400 lbs. of this substance were washed ashore at a small bay, in a small space. Amber has been known from the highest antiquity, and important medical properties were attributed to it; even now it maintains its place in our pharmacopoeia, together with the oil distilled from it, as a stimulant, an astringent, and anodyne.

Gas from Coffee.

At a late meeting of the Paris Academy of Science, M. Babinet read a paper on the evolution of gas in the making of coffee. If cold water be poured upon roasted coffee reduced to powder, such as is generally used with boiling water, a considerable quantity of gas is generally evolved. This gas is probably air, and is equal in volume to that of the coffee used. If a bottle be half filled with the powder, and cold water be poured in until the cork is reached which is to prevent the escape of the gas, a violent explosion, sufficient to force the cork out of the bottle, or even to break the latter, will be the consequence.

The Meteor.

M. Faye, in a communication to the Paris Academy of Science, in references to the November meteor, says that the phenomenon had been declining since 1833, but had reappeared in its former splendor since 1864. Its return was predicted for the night of the 13th by Mr. Newton, of the United States. M. Faye witnessed it at 1 o'clock after midnight, and consequently on the morning of the 14th. In the course of thirty minutes he counted eighty-one stars in about one-fourth of the hemisphere, the rest being cloudy. From three to forty-five minutes past that hour he only counted forty stars. Most of them came down diverging from the upper part of the constellation of Leo. M. Faye is of opinion that the mechanical part of the problem may soon be solved, owing to the astronomical regularity of the recurrence of the phenomenon; and he mentions a peculiarity remarked by himself, and which may be of some use in paying the way to that desirable end; it is this, that, as regards the 13th of August, the

planes in which the tangent to the earth's orbit lies, together with the points of divergence of the periodical meteors of the 20th of April, the 10th of August, and the 13th of November, are all very nearly perpendicular to the plane of the ecliptic. The same is the case with the meteors of the 23 of January, the periodicity of which has been suspected. On the contrary, the corresponding planes for the meteors of the 16th of April, the 13th of October, and the 12th of December are all very nearly parallel to the ecliptic. Hence it follows that the meteoric rings of April, August, and November, which are periodical, are nearly circular, like the earth's orbit.

Cockchafers.

The *Novelle*, of Rouen, states that the Council General of the Department of the Seine-Inférieure, having this year voted a sum of 15,000 francs for the destruction of the white larvae of the cockchafers, no less a quantity than 157,000 kilograms of them were collected from the 15th of September to the 21st of October last. The paper from which we take this statement, adds:—"In order to form an idea of the mass represented by the above weight, we may say that these 157 tons would, at the rate of five tons per railway truck, fill 32 such vehicles. Moreover, since these larvae have been buried in ditch, filled with quicklime, they will form an excellent manure, the value of which will be an ample equivalent for the outlay. Had these larvae not been destroyed, the ravages they would have committed on the roots of corn, cabbage, and other produce, might be estimated at several million of francs, their voracity being inconceivable. Had they afterwards arrived at the perfect state, that is, become cockchafers, they would have continued their ravages until the autumn, destroying the leaves of the trees, to which they sometimes cling in heavy clusters, sufficient to bend the twigs. Supposing half of them to be females, and each female to lay only 200 eggs, which is a short of the fact, the rain entailed upon the agriculturist would be almost complete.

Consumption.

Dr. Churchill, who discovers in the treatment of pulmonary consumption have obtained for him one of the highest places among contemporary physicians, has just published a small work containing, in a condensed form, a series of documents on the subject, including reports of cases of consumption cured by the use of the bark of the cinchona tree, and of physicians belonging to different countries. Two simple facts will show the importance of such a subject. On the one hand consumption is the most fatal of all diseases, as it kills no less than one-half of the whole number of persons who die in the prime of life. On the other hand, Dr. Churchill asserts that the general use of his treatment, which is not only a remedy, but also a preventative, would do for consumption what vaccination has done for small-pox, reducing its mortality to a very insignificant proportion. In support of this view the author points with justifiable satisfaction to the fact that, ten years ago, the announcement of his discovery of a specific remedy for consumption, which was regarded with derision or incredulity, but that now his treatment is universally recognized as one of the most valuable, and far superior to anything hitherto known. He shows that the reason why his views are not generally adopted by the profession is, independently of the proverbial slowness of all medical progress, the fact that many physicians have neglected to follow the rules he has laid down, and have thus failed in cases where they might have succeeded, if they had had greater experience and practice in the use of the remedy.

The Daimios of Japan.

The *London and China Telegraph* says:—"Among the several daimios who are becoming known to us, Satsuma is the one which occupies the foremost rank, owing to the great interest now taken in Japanese politics, their names have already become familiar in our mouths as household words." The notoriety acquired by the late-named Prince is indeed of a somewhat remarkable character, but derived chiefly from a series of unfortunate collisions with foreign powers and from the prominent part taken by him against the late Eyocon, or, more properly, Shogoon, in the civil war, which may be said to have just been terminated by the death of that potentate. At present we know so little of the personal character of Choshin that the opinions which have been hazarded regarding the motives of his agents in various parts of the country, against the treaty powers, and his successful rebellion against the Shogoon's supremacy, are perhaps premature; and it may be that, on establishing closer relations with this prince, we shall find his aims and objects are not so singular and shall, therefore, have reason to form a more favorable estimate of his character.

How a Man Freezes to Death.

M. Pouchet lately read an interesting paper on this subject before the French Academy of Science. The author's inferences are as follows:—"That the first phenomenon produced by cold is the contraction of the capillary vessels to such an extent that a globe of blood cannot enter. These vessels, therefore, remain completely empty. The second phenomenon is an alteration of the blood globules, which amounts to their complete disorganization. The third phenomenon is that every animal completely frozen is absolutely dead, and no power can reanimate it. 4. When only a part is frozen, that part is destroyed by gangrene. 5. If the part frozen is not extensive, and only a few dehydrated blood globules pass into circulation, the animal may recover. 6. But if, on the contrary, the frozen part is of considerable extent, then the mass of altered globules brought into the circulation when the part is thawed rapidly kills the animal. 7. For this reason a half-frozen animal may live a long time, if maintained in this condition, but the altered globules do not get into the circulation, but it ceases rapidly as soon as the frozen part is thawed. 8. In all cases of congelation, death is due to the alteration of the blood globules, and not to any effect on the nervous system. 9. It results from these facts that the less rapidly the frozen part is thawed, the more slowly altered globules find their way into the circulation, and the greater the chances of the recovery of the animal.

A Pensioner in Luck.

James Rathbone, one of the pensioners of the London police fund, has come into possession of funded property to the amount of £15,000, besides an estate which realizes £3000 per annum.

INSURANCE COMPANIES.

DELAWARE MUTUAL SAFETY INSURANCE COMPANY, INCORPORATED BY THE LEGISLATURE OF PENNSYLVANIA, 1853. OFFICE, S. E. CORNER THIRD AND WALNUT STREETS. MARINE INSURANCES ON VESSELS, CARGO, AND FREIGHT OF ALL PARTS OF THE WORLD, BY SEA, RIVER, CANAL, LAKE, AND LAND CARRIAGE, TO A PORT OF THE AMERICAN CONTINENT. FIRE INSURANCES ON MERCHANTS' GOODS, DWELLING HOUSES, ETC.

ASSETS OF THE COMPANY, NOVEMBER 1, 1866. Table with columns for various assets like United States 3 Per Cent Loan, State of Pennsylvania Five Per Cent Loan, etc., and their corresponding values.

OFFICE ANTHRACITE INSURANCE COMPANY.

RECEIVED FROM JANUARY 1, 1866, TO DECEMBER 31, 1866. Table showing financial details like Premiums determined during the year, Losses, expenses, etc., during the year.

PREMIUMS DETERMINED DURING THE YEAR.

Table showing premiums for Marine and Inland Risks, Interest, and other financial details for the year 1866.

ASSETS, JANUARY 1, 1867.

Table showing assets including United States 3 Per Cent Loan, State of Pennsylvania Five Per Cent Loan, and other investments.

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INSURANCE COMPANIES.

1829-CHARTER PERPETUAL Franklin Fire Insurance Co. PHILADELPHIA. Assets on January 1, 1866, \$2,506,851.96.

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The Girard Fire and Marine Insurance Company. HAVE REMOVED TO THEIR NEW OFFICE, NORTHEAST CORNER CHESNUT AND SEVENTH STREETS, 119 PHILADELPHIA.

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RAILROAD LINES.

PHILADELPHIA, WILMINGTON AND BALTIMORE RAILROAD. COMMENCING MONDAY, DECEMBER 21, 1866. TRAINS WILL LEAVE DEPOT, CORNER BROAD STREET AND WASHINGTON AVENUE, PHILADELPHIA, AS FOLLOWS:

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