Correspondence.

Maple Tree Insects.

To the Editor of the Scientific American:

My attention was called to the number of insects on our village maples, which indicated that they were dying. I at once cut a stick and inclose it to you, to ask, if it be worthy your notice, to give it a description in your paper, and what, if anything known, is a remedy for the pest, for pest it most

Some of the maples are covered with them just as is the small piece of twig I send, and some of the trees are dying. Can we get rid of the pest? I remain, respectfully,

Louisa Court House, Va., May, 1884.

[The twig accompanying the above letter $\mathbf{w}\mathrm{as}$ covered with the males of the common cottony bark louse of the maple (Pulvinaria innumerabilis Rathvon). This species is common all over the country on maple, sycamore, and osage orange. A closely allied species is found on the grape, which may possibly be identical with this. A very complete paper on this species was written by the late J. Duncan Putnam, and published in the first volume of the Proceedings of the Davenport Academy of Sciences. A short account with figgures will be found in the Annual Report of the Department of Agriculture for 1880. As to remedies, nothing better can be recommended than the kerosene emulsion, the formula for which has already been given in the columns of the Sci-ENTIFIC AMERICAN. It should be well diluted and thrown over the tree in as fine a spray as possible.—C. V. Riley.]

A Mysterious Explosion.

To the Editor of the Scientific American:

As an old subscriber I would like to inquire of you whether I have discovered something new, or what I did make. mixed the following articles: One part chloride of silver, mon, only dissolved by air), and the same amount (by measure) of aqua ammonia. I left that mixture stand for eight days, and then, by stirring the mixture, an awful explosion took place, and where the matter spread about, after becoming dry, and some time after, through brushing or rubbing of the spots it produced a noise like an electric spark.

J. E. F.

Washington, D. C., May 5, 1884.

[J. E. F. has rediscovered Berthollet's fulminate of silver, which has been described in the larger treatises on chemistry for about a century. It is one of the most violent and intractable of explosives; when dry, the gentlest friction of a feather may set it off. No practical use has been found anything for which he asked by bringing a card. for it, and many distressing accidents have resulted from bandling it. It is produced by digesting precipitated oxide of silver with ammonia. In J. E. F.'s case the oxide of silver was a product of the action of the lye on the chloride of eilver.—Ed. S. A.]

Cure of Wens by Ether.

M. Vidal cures wens by injecting them with ether. Used for this purpose, ether acts as a caustic-but much more mildly than is generally the case—by setting up inflammation of the cystic contents, and finally inducing suppuration of our own children, have the unnecessary labor of unlearning and four in 1883, as far as the official returns show. The the cyst itself. This it effects without producing any of the some of his first lessons. At the same time the experiment decreasing number of deaths from this cause is attributed to painful sensations or constitutional symptoms which are would have an interest as a test of the condition of the color the stricter measures adopted with regard to ownerless dogs, caused by throwing it into the circulation as a stimulant of sense in dogs. Another suggestion has been that, instead During the three years mentioned 11,564 stray dogs were the system at large. Its action is entirely confined to the of words, pictorial representations should be placed on the captured in Paris and the department, and destroyed.—St. structure operated upon, in which it gives rise to nothing cards. This, however, could only be done with material obmore than a feeling of tension, if the injection be made too forcily

The ether employed should be as pure as possible; that at sixty-five degrees, such as is usually sold in the drug stores, answers very well. It is injected with an ordinary subcuclog its piston.

As to the number of injections required and the quantity quire ten drops, part of which, owing to want of elasticity selecting them "Van" must be guided by the letters. soon as the cyst begins to suppurate.

the quantity introduced. Speaking generally, a wen the between a card with "food" on it and one with "out" on size of a hazelnut will require two or three injections of five it. I have no doubt that he can distinguish between differdrops; if as large as a walnut, ten drops must be injected ent words. For instance, when he is hungry he will bring four or five times. The mode of treatment in every other a "food" card time after time until he has had enough, and respect will depend entirely upon circumstances as they then he lies down quietly for a nap. Again, when I am goarise. The little operation is performed as follows: The ing for a walk and invite him to come, he gladly responds tion of Yucatan, furnished us by Dr. Le Plongeon from his tumor is grasped by the left hand, so as to put its integument | by picking up the "out" card and running triumphantly recent explorations in that region. These interesting picon the stretch, thereby bringing plainly into view the glandu- with it before me to the front door. In the same way he tures, showing something of the life of a people living in lar orifices it contains; into the most dilated of these, which knows the "bone" card quite well. As regards water Central America many centuries ago, and of whose very is often distinguishable by a fatty scab, the needle of the (which I spell phonetically so as not to confuse him unne- existence even the world was so long ignorant, have attractsyringe is inserted perpendicularly. It is then, before mak-cessarily) I keep a card always on the floor in my dressing ed wide attention, and will no doubt contribute materially ing the injection, moved about within the cyst cavity, so as room, and whenever he is thirsty he goes off there, without to stimulating that spirit of investigation which is so promito break up its sebaceous contents, and prepare them for the any suggestion from me, and brings the card with perfect nent a characteristic of the age. Our representations are complete reception of the ether; at the same time, the walls gravity. At the same time he is fond of a game, and if faithful copies of photographs taken on the spot.

nation. The succeeding injections are made in the same something he does not want, when the corresponding obway and at the same opening. They are stopped as soon as ject is shown him he seizes the card, takes it back again, the wen begins to enlarge, becomes reddened and softer, and and fetches the right one. is the seat of a slightly painful sensation of throbbing or No one who has seen him look along a row of cards and heaviness, which, however, never amounts to a headache, select the right one can, I think, doubt that in bringing a The tumor is now punctured at its base, from which issues card he feels that he is making a request, and that he can a jet of purulent fluid; next, the contents of the cyst are not only perfectly distinguish between one word and another, discharged in the form of a whitish mass, resembling vermi- but also associate the word and the object. celli, and mingled with the shreddy detritus of its walls. When the wen is of average size, this part of the process intelligence than has been recorded in the case of other will be completed in six or eight days. During the ensuing dogs, that is not my point; but it does seem to me that this days the integument of the cyst proceeds to suppuration, and method of instruction opens out a means by which dogs and is discharged through the same puncture, together with rem- | other animals may be enabled to communicate with us more nants of the internal membrane. As the tumor dwindles, satisfactorily than hitherto. the skin surrounding it gradually contracts, and soon it is represented by a mere core of conjunctival infiltration, sidering the best mode of testing him in very simple arithwhich, when the last drop of pus and the last fragment of | metic, but I wish I could induce others to co-operate, for I cyst wall have made their exit, shrinks into a small indu- feel satisfied that the system would well repay more time rated lump covered with healthy skin, and without any sign and attention than I am myself able to give. of the orifice by which the former mass has been evacuated. This consummation is generally reached between the fifteenth

The efficacy of M. Vidal's procedure was strikingly exhibited in the case of a man of intemperate habits and debilitroubled, for five years, with an enormous wen which pre- which they sometimes dream. There is now going the tective dressing, and in the ward which he occupied there fell asleep on his post. Then he dreamed quite an elaborate were four erysipelatous patients. Yet nothing untoward story of an accident resulting from a confusion of train While experimenting to make a poisonless silver wash, I occurred; the region operated on is now perfectly smooth orders; how he studied over the words of the dispatch, tryand level with the rest of the scalp, and not the slightest ing to make out their meaning, and then how, his train twelve parts of lye of potash (which was the result of com- trace of a cicatrix is left to mark the site of the excrescence. coming into collision with another, he was thrown into the -Lermoyez, Bull. Gen. de Therapeutique.

Teaching Animals to Converse.

Sir John Lubbock in a note to Nature says: I take the opportunity of stating the progress which my dog "Van" has gone only 250 feet while the dream was passing through his made, although, owing greatly no doubt to my frequent ab- mind, this distance being fixed by the position of the train sences from home, and the little time I can devote to him, with respect to signal lights on the line. This is the inthis has not been so rapid as I doubt not would otherwise teresting part of the story, for if these measurements are apsence of my idea was to have various words, such as "food." "bone," "water," "out," etc., printed on pieces of cardboard, and after some preliminary training, to give the dog

inches high, placing a number of them on the floor side by Department of the Seine, issued by the Paris Prefecture of side, so that the dog has several cards to select from, each Police for the past three years, shows that of one hundred and bearing a different word.

sequent difficulty, since the pupil would very likely begin by destroy the virus is the prompt application to the wound of associating the object with the color rather than with the cautery by red hot iron. Twenty personsdied of hydropholetters; he would, therefore, as is too often the case with | bia in the Department of the Seine in 1881, nine in 1882, jects, such as "food," "bone," "water," etc., and would not be applicable to such words as "out," "pet me," etc.; nor even as regards the former class do I see that it would present any substantial advantage.

taneous syringe, without the necessity of those precautions rather than by sight. He has no doubt an excellent nose, laxis of diphtheria and the exanthematous diseases. He which have to be observed in the application of caustic so- but in this case he is certainly guided by the eye. The cards states that he has never seen any of these diseases spread lutions—since it does not corrode the metallic fittings of the are all handled by us, and must emit very nearly the same from a sick child to other members of the family when this instrument, or cause the formation of any deposit which can odor. I do not, however, rely on this, but have in use a remedy was employed. In many of his cases no isolation number of cards bearing the same word. When, for in- could be attempted, as the mother was the only female in stance, he has brought a card with "food" on it, we do the family, and was obliged to take care of both the sick and of ether to be introduced at each of them, M. Vidal has not put down the same identical card, but another with the the well, continually passing back and forth from one to found that, for wens of the face or forehead, which are not same word; when he has brought that, a third is put down, the other. His method was to pour from twenty to forty larger than a hazelnut, no more than five or six drops need and so on. For a single meal, therefore, eight or ten cards drops of a mixture of equal parts of turpentine and carbolic be injected at a time. Larger tumors on the scalp may re- | will have been used, and it seems clear, therefore, that in

of the cyst are scraped and here and there lacerated with the he is playful or excited will occasionally run about with needle point, with the object of promoting their final elimi-tany card. If through inadvertence he brings a card for

I do not for a moment say that "Van" thus shows more

I am still continuing my observations, and am now con-

Speed of Thought.

Many people have noticed the remarkable quickness of thought in dreaming, how a long story, with many details and extending over a great period of time, will flash through tated constitution who came under his care in the Hospital the mind in a few minutes, but they seldom have any St. Louis for an eruptive disease, and who had also been means of even approximately measuring the quickness with vented him from wearing a hat or cap, and from lying on rounds of the press a story purporting to tell the dream of his back or on his left side at night. The incumbrance was a railway engineer, which, if true, affords a means of completely removed by ten injections of ether. During the measurement, and the story itself has every appearance of treatment the patient suffered no pain; he took no care of being a genuine relation of experience. The engineer had himself, often exposing his tumor to the cold, without pro- been without sleep and on duty for many hours, and at last air and dropped back into his seat in the cab with his hand on the throttle. At that instant consciousness returned, and he found that it was all a dream, and that although his train was traveling at the rate of 45 miles an hour, it had have been the case. Perhaps I may just repeat that the es- proximately correct, the dream occupied less than four seconds of time.—Ledger.

The Bite of a Mad Dog not always Fatal.

The bite of a mad dog, it would appear, is not so fatal as I use pieces of cardboard about ten inches long and three is generally supposed. A report upon the subject for the fifty-six persons bitten by rabid dogs in 1881 eighty died; in One correspondent has suggested that it would be better 1882, nine out of sixty-seven bitten died; and in 1883, five to use variously colored cards. This might no doubt render only out of forty-five. With regard to the treatment of the the first steps rather more easy, but, on the other hand, any bite of a rabid animal, the experience of the French doctors temporary advantage gained would be at the expense of sub- shows that the only remedy which can be depended upon to James Gazette.

Turpentine as a Preventive in Infectious Diseases.

The Medical Record tells us that H. Vilandt writes in the Ugeskriftfur Laeger, vol. viii., No. 8, 1883, concerning the Again, it has been suggested that "Van" is led by scent value of the oil of turpentine in the treatment and prophyacid into a kettle of water, which was kept simmering over a slow fire, so that the air of the sick room was kept conin the cyst walls, is liable to escape on the withdrawal of the When I last wrote I had satisfied myself that he had stantly impregnated with the odor of these two substances. syringe. As a rule, the injections should be suspended so | learnt to regard the bringing of a card as a request, and that | He claims also that by this means a favorable influence is he could distinguish a card with the word "food" on it exerted upon the exudation in diphtheria, although it is by The number of injections is of greater importance than from a plain one, while I believed that he could distinguish no means curative of the disease, and should never be relied upon to the exclusion of other remedies.

The Maya Civilization.

With this issue we conclude the series of illustrations and information thereon concerning the ancient Maya civiliza-