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THE STRENGTH OF INSECTS.

It is said that he is a philosopher who can accept the inevitable without repining. There are times in our lives when the most unpleasant things are forced upon our attention, and we fail with our best efforts to rid ourselves of them.

Besides their practical benefit, there is no little interest in noticing the great physical force which they exert. We call a man, a horse, a lion, or an elephant strong; but it is very easy to see that, proportionally, insects are the strongest animals that live.

the coast of Africa, 500 miles away. A humble bee has been seen to follow a rail car going twenty miles per hour, against a strong wind, for a considerable distance; and it even went faster than the car, as it flew to and fro and in various zig-zags around the vehicle.

Some interesting and ingenious experiments for measuring the strength of insects have lately been made by a Belgian naturalist named Plateau. He first tested their power of raising weights while walking on a level surface.

He then tried their leaping power, by fastening the wings and elytra, and by suspending under the thorax (by a thread) bits of lead set in wax.

To test the pushing power of insects, he placed some of them in a long cardboard tube blackened on the inside and admitting light only by a transparent glass at one end.

The power of flight possessed by insects was tested by fixing weights to the body in the same way as in leaping. He found that they employ much less force in flying than in other efforts of strength; perhaps this is because, unlike birds, they are not intended to carry weights through the air.

By these experiments, he found that his law applies equally well, whether the strength is exerted in walking, leaping, pushing, or flying. He finds that it also applies, in a measure, to the entire class of insects taken together, as well as to the same group of insects taken by themselves.

But these facts and conclusions give rise to other questions which are not so easily answered. Since insects are stronger than other animals, on what food do these small Cæsars feed that they are grown so strong? Is their physical organization formed on different mechanical principles?

and the strength which it generates. The difficulties are perhaps not insurmountable; but one great disturbing element would probably appear in the fact that insects may store up force in their earlier stages which they use in the perfect state.

RAPID TRANSIT IN NEW YORK.

A commission, appointed by virtue of a recent law of the State legislature, is now holding sessions in this city to determine upon the best plans for city steam railways.

At a recent sitting of the Commissioners, no less than thirty different plans for rapid transit were presented, all of which were for elevated tracks except one, the latter being for a canal railway between the buildings, with bridges or tunnels for the street crossings.

All of these elevated plans involve the placing of bridge structures of some sort, in several of the principal streets; and there appears to be a peculiar unanimity among the citizens on the subject. Nearly every person is in favor of such roads, but no one wants it to run in his street or in front of his store or dwelling.

The road must also cross the town somewhere, and those who reside on 42d, a fine broad street, are in its favor, provided it is erected on their neighbors' premises, a quarter of a mile distant, say, on 37th street; and they are of opinion that the constant passing of cars and locomotives in front of the second story windows of their friends down there will improve their prospects and healths, which now suffer by reason of too much quietude and seclusion.

To satisfy the public will be an apparently difficult task for the new Commissioners; but we wish them success. They will doubtless find out, before their labors are finished, that the building and equipping a first class substantial railway for rapid transit, capacities being equal, is just as expensive on the elevated as on the underground plan.

In the neighboring city of Brooklyn, the projected elevated street railway is also accepted with pleasure by the people. "But when the route of the proposed road is mentioned there is," says the New York Herald, "at once a persistent and screeching dissent. Property holders on Myrtle avenue come forward and scream against building the road on that avenue."

A CITY ONE HUNDRED AND EIGHTY THOUSAND YEARS OLD.

In the current number of the Overland, a Californian geologist reviews the geological evidence of the antiquity of a human settlement near the present town of Cherokee in that State, and estimates the age of that most ancient of discovered towns to be not less than 180,000 years!

The data for all such calculations are necessarily uncertain, as they are derived from the present motions of the continents and present rates of erosion; still, from the changes that have taken place since the pioneers of prehistoric California left their traces on its ancient sea shore, there can be no doubt that thousands of centuries must have come and gone.

The traces in question are numerous stone mortars, found in undisturbed white and yellow gravel of a subaqueous formation, not fluvial, underlying the vast sheets of volcanic rock of which Table Mountain is a part. In one instance a mortar was found standing upright, with the pestle in it, apparently just as it had been left by its owner.

The recent geological history of that region may be briefly summed as follows:

Previous to the placing of the mortars in the position in which they have been found, the early and middle tertiary sea level had receded to the position of the coal beds underlying Table Mountain, fully one thousand feet below the level of Cherokee. Subsequently, in the pliocene period, there was a further subsidence of about fifteen hundred feet, something like six hundred feet occurring after the mortars had been abandoned.