## Scientific american. $^{2}$

## SCHETRITC MOSEUN.

Old Civllization-...Layard's Nineveh. Many shallow philosophers entertain the notion that man commenced his existance as a wild savage of the woods, and that his progress has been step by step to his present ele vated position in modern civilization. N man entertaining such opinions can retain them after reading Layard's Nineveh and Babylon, a work recently republished in ex cellent style by the great American house of Harper \& Bros. of this city. At a time far anterior to that of historical record, excepting what we have in the Sacred Scriptures, there were races living and dwelling in Asia, who were highly civilized, and who were ac and civil policy; a race who built spend and civil policy; a race who built splendi palaces and adorned them with some of th choicest works of art, of a kind which have
been thought by many to be but recently dis been thought by many to be but recently dis-
covered. The saw, the shovel, and the axe, covered. The saw, the shovel, and the axe,
instruments in general use among all nations now, were also used by the serfs of Nineve and Babylon; the speaking trumpet wa even known in those days. In the illustrations of this book there is a representation of the mode by which the anclent Assyrians moved heavy bodies. A collossal winged bull is represented to have been placed on a sledge having rollers, and drawn by great bodies of men pulling ropes. Another body of men are represented as assisting with levers, and Mr. Layard remarks that this wa the plan he employed himself to remove the same piece of sculpture (which is now in the British Museum.) The old Assyrians were acquainted with making twisted rope, an art of which their descendants are utterly ignonant. The builders of the Assyrian palaces employed large slabs of alabaster, on which are representations of captives drawing these huge slabs, many of which are believed to be the forefathers of the present race of Jews But however skillful they may have been in moving large stones, it would no doubt have done them good had they been permitted to see how us Yankees make frame houses tra vel through our streets.
The inscriptions on alabaster slabs and blocks, discovered by Layard, have been translated by Col. Rawlinson and Dr. Hincks, and corroborate the correctness of the Bible, and what is very remarkable, the translation of the stone writing, agree exactly with the sacred text in stating the amount of gold ( 30 talents) taken by Senacherib, from Hezekiah, King of Judea. A chapter of intense interest to men of science in this work, describes the discovery of arched drains, vases, and kettles ot copper; bronze bells, bronze cups; ivor and mother-of-pearl studs, fit for the shirt bo-
som of a modern beau; a bronze strainer, \&c., som of a modern beau; a bronze strainer, \&c
in short, the Assyrians appear to have been in short, the Assyrians appear to have been
better acquainted with the making of bronze better acquainted with the making of brens bowls were also discovered, but what is mor interesting, is some picks and saws made of iron. This metal was long supposed to be unknown to the ancient Asiatics. Amons the glass articles discovered was a rock crystal lens, with opposite convex and plane magnifying and burning glass known.
We have long entertained the opinion that savage races are blasted limbs torn from the trunk of a higher civilization, and this book deepens our conviction respecting the correct ness of this theory, opposed as it is to the jargon of a shallow, unphilosophical, but declaiming sect of the present day, but agreeing with every deduction that can be drawn from the remains of ancient cities, roads, \&c., found in every part of the world

## Artesian Well

The artesian well on Court House Square has reached a depth of 475 feet. The water now flows from the top, running a stream of about two gallons a minute. The water is excellent, and (which is somewhat unusual at that depth) as cool as ordinary well water The workmen are now drilling through rock, below which, the skiltul superintendent has strong hopes that a copious supply of th genuine fluid will be found.-[Montgomery (Ala..) Journal.

## For the Scientific American.) Entomology. <br> Continued from pag

V. Aphanittera-(Hidden Wings.)


Pulex Irritans.
This orc'er embraces but one family, th Pullidae, or Flea tribe. These pigmy tor mentors are suctorial, of minute size, have only the radiments of wings, will drag twen $y$-five times their own weight, and leap two hundred times their length. The rostrum is etaceous, inflected, and armed with a sting The Hungarians put them to flight by greasing heir liven, which disgusts the vermin; and Queen Christina shot at them with a canno of liliputian caliber. The jigger or chegr (represented above magnified), is a West In dian species, smaller, but more hateful. It ge nerally attacks the feet (preferring those of foreigners), and nidificates between the skin and flesh, often rendering amputation neces VI.
Vi. Aptera- (Wingless.)


Podura Villosa.
These parasites connect true insects with the Myriapoda. They undergo no metamor phosis, and constitute two families-the Louse tribe, and Spring-tails. Different species of the former are restricted to particular animals wo infest man. The body is flat, divided in to a dozen parts, and fitted with short legs, terminated by stout nails. The eyes are al most wanting, and the mouth is like a snout, furnished with a sucker. The female gives birth to 5000 in eight weeks; they are not subcutaneous, and produce the disease "phthi iasis." New Zealanders and Hottentots ea hem; and in ancient America a poll tax of lice was exacted-bags of the precious trea-
sure being found in the palace of Montezuma The legs of the sugar-louse are terminated by long lointed bristles. The abdomen of the pring-tail has no appendages; but its extre mity is prolonged into a forked tail, by which the animal leaps. Their scales are beautiful nder the microscope, and are employed as est-objects by reason of their delicate mark ings. Some species are found beneath stones, gregated they look like gunpowder.

Climate ot California.
The climate of California may be divided into three seasons. The rainy or wet season, the season of the dews, and the dry season. in which neither rain nor dew falls. The rainy eason commences about the first of Decem er and terminates about the 15 th of April The second season embraces that part of th ear when the evaporation is greatest, and he moisture of the earth is converted into dews : this season lasts from one month to six weeks. The dry season includes the summer months, and continues until the rain set in. California contains as many different changes of climate as can be found south or atitude $42^{\circ} \mathrm{N}$. to $23^{\circ} \mathrm{S}$. latitude, owing to he present division of seasons, the atmosphere is divided into two kinds, wet and dry. It may be said, however, that the coast wind more or less humid at all seasons of the year St. Francisco is exposed during the summe months to damp and chilly winds, whilst the winter brings a mild and wholesome season, with a balmy atmosphere. The interior does not suffer from this influence. The humid at mosphere occupies that part of the year in which the rains predominate, and the seaso of the dews. The winds generally prevai during the summer S. S. E. in the interior, and on the coast the prevailing sea breezes constithe chiet winds.
The climate, like other countries, may, in rocess of time, become more genial to agri process of time, become more genial to agri-
cultural pursuits, and the health of those who
have or may hereafter make this State the home of their adoption. Historical facts sup port this position. The climates of European than they are at present. Cæsar informs us that the vine could not be cultivated in Gaul on account of the cold winter. The reindeer now found in the zone ot Lapland once inha bited the Pyrenees; the Tiber was frozen over and the country surrounding Rome was covered with snow several weeks together wnich rarely happens in our time. The Rhine and Danube, in the reign of Augustus, were generally frozen over for several months o the year. The improvement which is continually being made in the climate of America proves that the power of man extends to phenomena, which, from the magnitude and variety of their causes, seem entirely beyond his control.
At Guiana, in South America, within five degrees of the line, the inhabitaıts living amid immense forests a century ago, were obliged to alleviate the severity of the cold by evening fires, even the duration of the rainy sea on has been shortened by the clearing of the country, and the warmth is so increased that fires now would be deemed an inconvenience. It thenders continually in the woods, but rarely in the cultivated parts." It is probable that in the course of time, and after the settlement of the country, the habitable portions of California may become, in its sea sons, more regular and better adapted to agricultural and other pursuits. Should such changes take place as history records to Italy then indeed is California a favored land. Yet drainage of the dround and the removal of fo rests cannot be recorded among the cause
increased warmth of the Italian winter.
The elevation of the highest peaks of the ierras is about 17,000 feet above the level of he sea; Pleasant or Red Lake about 9,000 eet; Pleasant Valley 3,864 feet, and is the earest habitable place to the mountains Their mean elevation above the sea will range rom 1,000 to 1,700 feet; the mean tempera ure of the atmosphere, from the best calcula tions, being about $72^{\circ}$. Fahr.
The fogs in autumn, on the coast, are checked in their advance to the interior of the coas range, thus leaving the dry atmosphere free rom these additions. It is a fact worthy of notice in this connection, as well as to estabish the positive purity of the atmosphere in he interior, that its effect during night, as well as in the day, upon the human body, invigorates the system, and is so refreshing that persons prefer sleeping in the open air, without ther covering than the broad canopy of heaven.
It may be said with certainty, that neither homo, nor idio, nor vegetable, nor animal mi asmata exist to any extent that would create disease, and on the whole it may be considered a healthy climate, particularly in those sections where there exists a unitorm evennes in the atmosphere. It may be regarded as more pleasant and agreeable than the clim any other part of the United States.
The above is a condensed statement from n article in the "Western Journal," by Geo. M. Willing, M. D.; we seldom see an article upon this subject upon which we can depend or truthfulness; almost as many ideas exist as there are inhabitants in the new State. The
above is probably for the most part correct.
sit. Lonis Removed to the Country.
Much apprehension, it is said, is now and has long been felt in St. Louis, that the action f the waters of the Missouri, where they ener the Misssssippi above that city, will eventually wear away the Illinois shore to such an extent as to torce a new channel for the reat father of waters, and thus leave St. Louis some five or six miles out in the counry. The present flood, as usual, is tearing way the bank, having washed off a mile and half of the telegraph line near Alton, with all the land on which the poles were planted. The editor of the "Alton Courier" says:"As much abrasion of the Illinois shore for the next ten years, or even five years, as has been occurring for a few years past, and the akes and the lowlands above spoken of, will e reached. The Gillham farm is now near ly all swept away, and the old dwelling
house, which has already been moved once or twice, will soon have to be removed further back or torn down. Where we rode along in our conveyance, on the public road near this place, some three years ago, is now 150 feet out in the stream of the sweeping Mississippi.

A colony of sky-larks, forty-two in number, were recently imported from England by gentleman of Delaware, with the hope of perpetuating the species in this country and hus adding a songster of much renown to our orest choir. The birds flew from the place at which they were released in various directions, and, tor the most part, in flocks of three to twelve, alighting mostly within sight, upon adjoining farms.
In all likelihood the experiment will fail as the larks build their nests on the ground and in a country, where snakes and such varment are numerous, their eggs and young will be destroyed.

LITERARY NOTICES.
IInvs on the Dagcerriotype, etc.-Edited by
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