any particular party, nationality, religion, or association, shall De summariry dismissed from the service.
It would be well if the proprfetors or chief officers in some other brancles of business where large numbers of men are employed, would esact similar requirements of their superintendents or under officers.

## a tropical fruit.

A writer in the Gardener's Chronicle, in an article on the edible fruits of the forests and gardens of the Eastern' tropics, gives a long and interesting account of that singular fruit the durion. He says that the regal durion (Durio zibetlinus). like the finest of nectarines or melting pears, must be eaten fresh and just at one particular point of ripeness, and then it is a fruit fit for a king. So highly is this vegetable custard valued that as much as a dollar each is often paid for fine specimens of the first fruits of the durion crops brought into the Eastern markets. It is a unıversal favorite with both Malays and Chinese, but the opinions of Europeans vary as to its merits. It is a paradox, "the best of fruits with the worst of characters," and, as the Malays Say, you may enjoy the durion, but you should never speak of it outside of your own dwelling. Its odor is so potent, so vague, so insinuating, that it can scarcely be tolerated inside of the house. Indeed nature here seems to have gone a little aside to disgust us with a fruit which is, perhaps, of all others, the most fascinating to the palate when once we have " broken the ice," as represented by the foul odor at first presented to that most critical of all organs of sense, the nose. As a matter of course, it is never brought to table in the usual way, and yet the chances are that whoever islucky enough to taste a good fruit of it to begin with, soon develops into a surreptitious durion eater. There is scarcely any limit to durion eating if you once begin it; it grows on one like the opium habit or other acquired taste; but, on the other hand, the very suggestion of eating such an "unchaste fruit," is to maty as intolerable as the thoughts alone of supping off cheese and spring onions, washed down with beer, and following it by a whiff from a short "dhudeen," by way of dessert.
About the middle or end of July, durion fruits are very common in Singapore, and their spiny skins lie about the streets in all directions. As you pass along you become aware of a peculiar odor all around you-an odor like that aware of a peculiar odor all around you-an odor like that
of a putrid sewer when half suppressed by holding a perfumed handkerchief to the nose-a blending of a good deal that is nasty with a soupy of something rather sweet and nice. On opening a fruit for yourself, you find that the perfume, like that of musk plant, ceases to be evident after you have once had a fair whiff at it at close quarters. The flavor of the straw-colored, custard-like pulp surrounding the larte chestnut like seeds is perfectly unique; and to taste
it, as Wallace tells us, is a "new sensation worth a journey it, as Wallace tells us, is a "new sensation worth a journey
to the East to experience." The pulp is sweet, rich, and satisfying, but never cloys; the richness seems counteracted by a delicate acidity, and the want of grape-like juiciness is supplied by the most creamy softness of the pulp as it melts away, ice-like, on your tongue. The durion is one of Dame Nature's "made dishes," and if it be possible for you to imagine the flavor of a combination of corn flour and rotten cheese, nectarines, crushed filberts. a dash of pineapple, a spoonful of old dry sherry, thick cream, apricot pulp, and a souncon of garlic, all reduced to the consistency of a rich custard, you have a glimmering idea of the durion, but, as before pointed out, the odor is almost unmentionable-per fectly indescribable. The fruit itself is as large as a Cadiz melon, and its leathery skin is protected by sharp broadbased spines similar to those of a horse-chestnut. There are many varieties in the Bornean woods some but little larger many varieties in the Bornean woods some but little larger
than horse-chestnut fruits, and having only two seeds; others larger but with stiff orange-red pulp, not at all nice to eat, however hungry you may be, and even the larger kinds, with creamy pulp and many seeds, vary greatly in flavor. The trees vary from 70 to 150 feet in height, with tall, straight boles and spreading tops, and the foliage is oblong acuminate, dark green above, paler and covered with reddish hairs or scales below. The fruits of the finer varieties fall when ripe, and are often the cause of serious varietien sall when ripe, and are often the cause of serious
accidents to the natives. The clusters of large white flowers accidents to the natives. The clusters of large white flowers
are produced about April, and form a great attraction to an are produced about April, and form a great attraction to an
enormous species of bat, a kind said to be one of the greatest pests of Eastern fruit-groves. The finest fruits are obtained from cultivated trees.
The tree does well in Sumatra, Java, Celebes, and the Spice Islands, and even as far uorth as Mindanao. Forests of it exist on the Malay Peninsula, and very fine fruit is brought to Singapore from Siam about July or August. It does not succeed well in India, and cannot be grown in the West Indies.

## fire-flies.

The insects termed fire-flies in America, and which lend such a charm to our summer nights, are soft-winged beetles of the family Lampyritue, which have the property of emitting from the abdomen flashes of soft, phosphorescent light. There are several distinct species of these so-called "fireflies" indigenous to North America, the most common and widely distributed of which is Photinus pyralis (Linn.). This insect most abounds in the South west, where, during summer evenings its constantly recurring flashes of light beautifully illumine the air. The perfect insect is of oblong form, somewhat flattened, and varies from $1 /$ to $5 / 8$ of an inch in
length. The wing-covers are dull black, margined with
pale yellow. The thorax is yellow, with a central blacis spot having on each side a patch of rose color. The under side of the abdomen is dark brown, with the exception of the two terminal segments from which the light is emitted, which are sulphur yellow. The manner in which the flashes of light are produced is not yet satisfactorily determined, but would seem to be the result of sudden, irregular inspirations of air accompanied by a peculiar voluntary action of certain abdominal muscles. The larva of this species, which may dominal muscles. The larva of this species, which may
serve to illustrate the larval habits of the family, lives in the serve to illustrate the larval habits of the family, lives in the
earth and subsists mainly on earth worms. It is of an elongate slender form, each joint having on top a horny brown plate, which is ornamented with a central straight line of white, inclosed between two curved lines of the same color. The sides are soft, and rose colored, with the white spiracles situated on elevated brown patches. The under surface is cream color, and each segment is marked in the center with two small brown spots. The thoracic legs are quite long, and the posterior extremity is provided with a singular fan-like proleg, which not only assists in locomotion, but serves to cleanse the head and fore part of the body from the impurities that may adhere after the larva has been feeding. The
pupa is formed within an oval cavity in the earth, and is white, with a tinge an oval cavity in the earls. remains in this state only about ten days. Both larva and pupa have the power of emitting light, though in a much The "fire-fly" the mature insect
The "fire-fly" most common in the more Northern States is the Photuris pennsylvanicus (De Geer). In some species of both the genera here mentioned, the females are incapable of flight, the true wings being entirely undeveloped, and the wing-covers very short; while in the well known glowworm of Europe (Lampyris noctiluca), belonging to the same family, the female retains the larval form, and has the merest rudiments of wings.-Prof C. V. Riley.

## Discovery of Another Mastodon.

In 1845 the largest and most perfect skeleton of a mastodon ever found was taken from a swamp in the town of New Windsor, near Nemburg, N. Y. It was set up by Dr. War ren, and is now in the Boston Museum.
On July 5, the bones of another mastodon were discoverin the same neighborhood-namely, on the farm of Hugh Kelly, at Little Britain, N. Y. The skeleton appears to be nearly if not quite complete, and the separate bones are in fine condition.
The dimensions of the chief parts of the skeleton found are as follows: The skull is 45 inches long, 28 wide, 29 high, and 2314 between the eyes. The diameter of the nostrils is 6 inches, the nostrils extending into the head 2 feet. Four teeth were found in each jaw in an excellent state of preser vation. The enamel is of a bluish tint and unbroken. The four back teeth are eight-pointed, measure 7 by $33 / 4$ inches, and stand 3 inches out of the jaw. The four front teeth are six-pointed, and measure $4 \frac{1}{4}$ by $31 \frac{1}{2}$ inches. The depth of forehead is 18 inches; the eye-sockets are 7 inches in diameter, and the ear-sockets 18 inches in diameter. On each side and above the mouth are holes measuring $61 \frac{1}{2}$ inches in diameter, from which probably protruded the tusks, which have not yet been found. These openings extend into the skull a depth of two feet. There are eight fangs on each back tooth and six on each front one. The space between the rows of teeth across the jaws measures $71 / 2$ inches on the upper and $61 / 4$ inches on the lower jaw. In the center of the forehead is a cavity measuring 11 by 4 inches. It cannot be surmised what this cavity indicates, unless it be for a trunk between the tusks corresponding to that of an elephant. The lower jaw was joined to the upper after they had been unearthed, making a perfect skull. It is estimated
The fore-le
The fore-leg, including the thigh bone, measures 7 feet in length, and it weighs, it is judged, 150 pounds. The first joint of the hind leg measures 2 feet 5 inches in length, and the second joint of the same leg 3 feet 4 inches. The only part of the other fore-leg yet found is the second joint, measuring 3 feet 10 inches in length. A dozen or more sec. tions of the spine are among the bones unearthed. The largest measures 10 by 16 inches. A score or more other bones are among the lot, among them that of a toe, measuring $61 / 2$ by $41 / 2$ inches.
These measurements indicate an animal rivaling in size the one described by Dr. Warren.

## swift's Comet.

In a letter to the Tribune, withregard to the comet dis covered by him, June 17, Mr. Swift reports, under date of July 5 , that from observations made by Professor Hough, Director of the Dearborn Observatory, Chicago, on June 23, and by Professor S. C. Chandler, at Boston, on the $26-30$, Professor Chandler has computed the following parabolic elements referred to the mean equinox of 1879 :


These elements resemble those of no comet which has been observed during authentic history. In fact, they
differ widely from all recorded comets since 370 years B. C. down to our own time. If correctly caleulated the orbit of this comet is parabolic, and the comet is visiting us for the first and last time. It is now receding from the sun rather rapidly, but is approaching the earth somewhat slowly, and
will be visible for several weeks, but ouly through the telescope. Professor Chandler thinks it was at its maximum briliancy on the 1st of July, when it was just visible with a $21 / 2$ inch telescope.
The reader must not lose sight of the curious fact that the comet on the 13th passes quite near the Pole Star and almost exactly over the true pole of the heavens, which accoun!s for the abrupt change in right ascension.
One very clear night Mr. Swift has seen a broad but very short and faint tail inclined at a considerable angle from a point opposite the sun. On another clear night he was able to see an exceedingly minute star-like nucleus which appeared to be double. Neither of the last two phenomena could be seen except by eyes long trained to viewing faint ob. jects, and then only on nights exceptionally clear and with instruments of fine definition.

## American Ship Builders.

With the death of John Dimon, recently, the last of the old-time ship builders of New York passed away. Mr. Dimon was born at Jamesport, L. I., in 1794. He apprenticed himself to Henry Eckford, ship builder, at an early age, and when but eighteen years old was sent by the latter to Sackett's Harbor to help in building the frigates which served in the war of 1812. Afterward, associated with Stephen Smith, Dimon became a prosperous ship builder, building many noted clipper ships, and at a later day many steamships, notably for the Pacific Mail Steamship Company. Mr. Dimon retired from business in 1854. He had for his contemporaries in the palmy days of the ship building trade, among others, the father of $W \mathrm{~m} . \mathrm{H}$. Webb, the father of Henry Bergh, the two brothers James R. and George Steers, Jacob Westervelt, and Mr. Mills, who died a short time ago.
An American ship builder of more recent fame, William Cramp, head of the Cramp Ship Building and Engine Works, Kensington, Philadelphia, died at Atlantic City, July 6.
Mr. Cramp was born in Kensington, in September, 1807. He served as a ship building apprentice when that industry was carried on in its primitive stages in the yard of Samuel Grice, which was then the principal establishment in its line in Philadelphia. After attaining his majority he engaged in business for himself, beginning in a small way. During the fifty years he spent in business ship building made great strides, and William Cramp was acute in his perceptions of the wants of a progressive people.
The firm of William Cramp \& Sons was composed of William Cramp and five sons. Since the works have been established there have been constructed 225 vessels of every description, including merchantmen, men-of-warfor thisand other governments, the steamers of the American Line, and Reading Railroad colliers. Fiveiron cruisers for the Russian navy have been built at the works within the past year.
The Bridgewater, built 27 years ago, and at that time the argest vessel of her class in the country, is still afloat.
The largest iron freight ship ever built in this country is now under construction at this yard. She is to be 2,000 tons measurement, and to have a carrying capacity of 8,000 bales of cotton.

## A Good Sign of the Times.

One year ago this month, July, the New York Belting and Packing Company became financially embarrassed, owing to serious losses occasioned by the defalcation of an officer in the Boston Packing Company. A compromise was effected with their creditors, and notes were given for full amount, interest payable at intervals extending to October, 1881. It will gratify the friends of the company to know that they are now enabled to meet all their obligations, and to this end the energetic manager and treasurer, J. H. Cheever, Esq., requests the holders of their notes, whether due or otherwise, to present the same for immediate payment.

## Fourth of July Snow.

A sudden and unusual fall of temperature was widely experienced on the afternoon of the fourth of July. At Portland, Maine, it was attended by a fall of snow. Sergt. Boyd, of the Signal Service, explained the phenomenon in this way: Shortly before five o'clock a cloud was observed rising from the south. At the same time another rose from the northwest. The current of wind which bore this along was cold, while the opposing current was warm and saturated with vapor. These two intermingled, and the effect was to form crystals of snow. The preceding heat and dryness of the day also helped to produce this result. The barometer was very low at the time, and the thermometer dropped 15 degrees in 10 minutes. The minimum temperature Friday night was $57^{\circ}$. This sudden change was no less remarkable than the snow-flakes.

The Mississippi Jetties Finished.
Capt. J. B. Eads reports, under date of July 10, that the greatest depth and width of channel required by the Jetty Act at the mouth, and also at the head of South Pass, has been secured. The completion of the great work was certified to the Secretary of War the same day by Captain M. R. Brown, of the United States Engineers, inspector of the work. The jetty channel is over thirty feet deep, and a good navigablechannel of twenty-six feet, measured at the lowest stage of the river, exists at the head of the passes. The benefits to commerce likely to flow from this brilliant achievement are inestimable.

