Scientific.

Something Warm.

The following extract from a letter to by way of contrast, at least :-

"Mosul, opposite Nineven, Oct. 4, 1851. "During the hot months-and they are between April and November-the natives all sleep on the roofs, and during the hottest-June, July, and August-live in the cellars There is no dew in summer, nor rain. landed May 16, and have seen neither. The air is electrical to a surprising degree. Any horse that is groomed enough so that his tail is not matted together with filth, will show you electrical phenomena by the day-every hair on his tail standing apart, away from his neighas if playing gymnastics.

" For the most part, the scorching air and glaring light shut us into our rooms, which with all our efforts to keep them cool, would reach 100 °, and twice, 101 °. Day after day, our sitting room was at 98 2 (blood-heat) from 11 A. M. till 7 or 9 P. M. For 56 days in succession, the thermometer showed 100 ° or more in the shade; twice it reached 108 ? (How high it got in the city, we don't know. For 33 days it did not but once go below 90 day or night; and the midnight average was 95 and 94 . But we have ceased to suffer for this year. Our sheets have ceased to burn when we got to bed, and a clean shirt is not like that which Hercules put on. We luxuriate in the morning at 64°, and at midday only to 94°. But we pay for our comfort with colds. Of a family of nine, seven have or have had terribly severe colds.

"Oct. 13:-Yesterday was the first day in which I have been able to endure a light pair or worsted pains. Mercury rose only to 89 o First time it has stopped at that. No use for vest yet."

The Arctic Regions.

Dr. Lane, who accompanied the Grinnell Arctic Squadron, in search of Sir John Franklin, has been delivering some very interesting several individuals belonging to this interest. gives an abstract of his lectures.

ter, in Baffin's Bay, a great field of solid ice, Agassiz, to whom they have been submitted when suddenly this was rent in chasms, which for examination, and who has studied the rapidly opened into what were characterized group of animals with his usual skill, believes by Dr. Kane as "dark rivers," nearly half as them to be the first and the only species that wary of last year, these began to close with United States. derful region. The first of these was-

ing point, cold became as sensible in its ef- inhabitants of the ocean." and the lips were glued together by the cement- world.

darkness. The long night stole gradually upon our voyagers, and at last the clear heavens lissened to with breathless attention. At last strata Captain Brickender found a track of miliar with ammonia in the form of a salts, however, the night passed away, and, almost 20 footsteps of a chelonian or turtle; and in and now that in this form it is extremely violate transition, day came upon the lower beds of the Devonian, in Forfar-latile, and readily passes into an aeriform state, them. Dr. Kane said that this short period shire, fossil eggs of frogs and aquatic salaman-

Smithsonian Institute, referred to the inter-ever had been found in the old red formation. esting question of an open sea around the Dr. Mantell has named the reptile Tolerpoton which will prevent the escape of ammonia; north pole: After citing the theoretical ar- Eiginese, to indicate its remote antiquity and such as charcoal orcharcoal dust from coal-pits friend, by the Rev. W. F. Williams, mission-gument in favor of such a body of water, Dr. the place where it was obtained. - Bridgeon ary to Syria, will at this season be interesting, Kane mentioned that the American expedi- Gazette. tion under Lieut. De Haven had actually seen from their most northern point, that unmistakable sign, the dark cloud known as the "water- bars of iron of pipes with the chisel, is a la-sorb the gases as they are disengaged, there sky;" and Captain Penny, an energetic what borious and tardy process. By the following will be no waste. It may be considered a ler, for whose views Dr. Kane seemed to have mode, the same end is attained more speedily, rule, that whenever smell is emitted by magreat respect, confirmed this "sky" by sight- easily, and neatly: Bring the iron to a white nures some of their valuable properties are far to the north and west of the point which common saw, which, without being turned in be wasted 'on the desert air,' they should be the American expedition reached, that he sup- the edge, or injured in any respect, will di- saved and converted into vegetable substances poses Sir John Franklin and his companions vide it as easily as if it were a carrot. to be immured; surrounded by seal, and the resources before described, but unable to leave their hunting ground and cross the " frigid bor, then approaching, and again shooting out, Sahara" which intervenes between them and the world from which they are shut out.

Power of Imagination.

restored to health."

Interesting Discovery of Pedunculated Star Fishes.

Our naturalists will be pleased to learn that coast of South Corolina, by Professor F. S. At one time the vessels were about to en- Holmes of the Charleston College. Professor

some of the physical phenomena of this won- mains of their skeletons, and in some places. But though we believe that the valuable

jack-knife in the pantaloons pocket caused animal grows upon a stalk like a plant, or lily, valuable and important element inmanures. you to jump as with a sudden scald. During the stalk being attached by its base to a rock, If a heap of manure is left to ferment on the long darkness, when they attempted to be- or shell, or other substances; but as soon as the surface of the earth, or without being covguile the winter hours with theatricals, an it attains its full growth or adult state, it dis-ered by some absorbing substance, its bulk unfortunate Thespian dropped the pantomi engages itself from the stem of stalk, and and weight are greatly reduced. What has mic flat-iron as though receiving a sudden swims about in the sea a free and independent become of the lost portion? It has, of course burn. Indeed next day, a row of blisters had star fish. There is another species which is gone into the air, as it would have done if the given evidence of the truth that, in tempera-always attached to its peduncle or stalk, and manure had been acted on by fire. The ma-ture as in every thing else, extremes meet. never becomes free. Those discovered upon nure, or a certain portion of it, has been re-THE POLAR NIGHT .- With the cold came this coast belong to the first variety.

EXTRAORDINARY FOSSILS.—At a meeting come parts of the atmosphere: shone perpetually with unchanging stars. The of the Geological Society on the 18th Dec., The nitrogen in manure is in the form of pole-star was so near overhead as to appear Dr. Mantell exhibited a fossil lizard about six ammonia, and that it escapes during fermenin the absolute zenith, and around it the inches long, which had been sent to him to tation, has been proved; it is perceptible by " great vault of heaven revolved with perpet- examine and describe, by Mr. Patrick Duff, the smell, and has also by means of acids been ual twinkle." This portion of the lecture was who discovered it near Elgin. In the same detected in its ascent. Most people are fa-

Professor Kane, in a lecture before the previously no vestiges of any reptiles what-become a liquid and descend into the earth.

Cure for Deafness.

A correspondent of the Boston Cultivator gives the following simple cure for deafness.

At about three years of age, a daughter of the Hon. Daniel Baldwin, of Montpelier, became very deaf in both ears. In conversa-"A few years since, Elijah Barns, of Penn-tion it was quite difficult to make her hear, sylvania, killed a rattlesnake in his field wita- and she continued in this wretched state unout any injury to himself, and immediately til about eighteen years of age, when an Inafter put on his son's waistcoat, both being of dian doctor chanced to see her, who told the one color. He returned to his house, and on mother, Mrs. B., that the oil of onion and toattempting to button his waistcoat, he found bacco would cure her if prepared as follows : were plainly perceptible. And the effectsof mato his astonishment that it was much to small. - Divide an onion, and from the centre take His imagination was now wrought to a high out a piece the size of a common walnut; fill depth, in proportion to the perousness of the pitch, and he instantly conceived the idea that this cavity with a fresh quid of tobacco, and soil and the quantity of manure applied. It is he had been bitten imperceptibly by the snake, bind the onion together in its usual shape; and was thus swollen from its poison. He roast it, then trim off the outer part until you nures, ' phosphates and other salts with alkagrew suddenly very ill, and took to his bed, come to that portion slightly colored or pene-The family, in great alarm and confusion, trated by the tobacco: mash up the balance great extent by percolation. summoned three physicians, and the usual re- of the tobacco; put it into a phial. Three medies were prescribed and administered. drops of this oil, Mrs. B. informed me she The patient, however, grew worse every mi-dropped into the ear after her daughter had the question whether they rise or fall, has nute, until at length his son came home with retired to bed, which immediately gave her been much discussed; and some, who believe his father's waistcoat dangling about him considerable pain which lasted for some time. The mystery was soon unfolded, and the pa-Before morning however, her hearing was so the conclusion that they should be placed from tient, heing relieved from his imaginary ap-extremely delicate and sensitive, that she sufprehensions, dismissed his physicians and was fered by the sound and noise in common conversation! This she soon overcame, and for more that three year past her hearing has been entirely restored, to the great joy of her parents and friends! Having been acquainted with the family for many years, the case is so miraculous and gratifying, that I cannot, lectures before the Smithsonian Institute in ing and extremely rare family of crinoid star in justice to the afflicted, refrain from making Washington. The "National Intelligencer" fishes have been lately discovered upon the this simple and effectual remedy for deafness known.

The Farm.

The Law of Manures.

We notice that the question, "Do mawide as the Potomac. On the 13th of Jan- has been found upon the Atlantic coast of the nures ascend or descend?" has lately been considerably discussed. For our own part, we frightful clamor and disruption. The brig The crinoid star fishes, or as they are po- should no more think of asking or discussing was bodily listed up seven feet, and an advanc- pularly called lily stars, or stone-lilies, con- such a question, then we should whether ing mound of ice threatened to overwhelm her, stituted the most numerous class of the ocean's moisture ascends or descends. It obviously when by some miraculous age ncy its course inhabitants in early geological ages, as is evi- does both; and so it is with manures, unless was arrested. The subsequent portions of the denced by the fact that immense tracts of dry the term manures be restricted to mineral

we may walk for several miles over one con- parts of manures may be carried into the air THE POLAR CIRCLE.—This, with its gra- tinuous mass of their stony fragments, "frag- and washed into the earth, we do not admit dual and insidious approach, was graphically ments which were once built up in ani- the propriety of some of the positions by which depicted. At the appalling temperature of mated forms, encased in living flesh, and obeythe fact is attempted to be illustrated. For ed as not to be liable to waste. cend, but the salts descend." The fact is here fects as heat; indeed, between the positive ef- A few straggling analogues only of these lost sight of that the same substances are cafects of the very high and the negative of the interesting forms now inhabit the seas of our pable under different circumstances of assumvery low scale, it was impossible to distinguish globe, and they have elicted not only the ad-ing both a solid and a gaseous form. Such by sensation. Upongoing out into the openair, miration of the common observer, but have is the case with carbon, which constitutes the face became encrusted with an icy rind, also excited much discussion in the scientific the greatest part of ordinary manure, as well as vegetable substances; and also nitrogen, ing aid of the beard and moustache. The A strange feature in the history of one spe- which has formerly been held by chemists, (and trigger of a gun blistered the finger, and a cies of this recent star fish is, that the young is indeed held by many chemists,) as the most

solved into its original elements, and the carbon and nitrogen it contained have again be-

of alternation, giving them as it did the familiar day and night of home, was full of painful were placed before the Society.—The great
associations.

Reason, like polished steal, must
the very substance which forms a salt may bebright by use, or it will rust.
Ratify promises by performances.

the sales of a published which was to being the publish dec

Manure may be combined with substances peat, muck-soil, and vegetable or carbonaceous substances generally. If the process of fermentation is properly regulated, and the ma-A HINT TO BLACKSMITHS .- The cutting of Dure is combined with articles which will abing the water itself. It is in this region, not heat, and then, fixing it in a vice, apply the being dissipated; hence their odors should not in which condition they are not only more agreeable to the olfactories, but become substantial elements of animal nutrition.

As to the sinking of manures, there is positive evidence of the fact. We have in many instances seen its effects to the depth of several feet. On the farm of Mr. Prentice, near this city, it was noticed lately, in digging a cellar near where a compost heap had been laid, that the earth to the depth of three feet from the surface, though it was of quite a compact and clayey nature, was so impregnated with the qualities of the manure that they nure are always traceable to a greater or less Liebig's opinion that the soluble parts of maline bases,' are drawn off, and wasted to a

The depth to which manures should be buried is another subject, which in connection with that manures always ascend, have arrived at 'a foot to eighteen inches" under ground.

We do not suppose it practicable to lay down any fixed rule in regard to the covering of manures. Some general principles however may form a guide. It is evident that manures can only afford nutriment to plants when they are in a soluable condition. In their application, therefore, the causes which produce solution and decomposition should be regarded.-These causes are principally heat, air and moisture; though in the elimination and assimilation of food by plants, light and electricity are evidently powerful agents. Most of these principles act with the greatest force near the surface.

In some cases, as in dressing grass lands, we would spread manures on the top of the ground, -but in such cases, we would use as well roued compost, in which the animal manures had been combined with substances as would absorb the matters that during fermentation might pass off-the reason why we would preer for such a purpose manure that had passed through the first stages of decomposition in the matter mentioned, is that it would be more readily soluble than in a fresher state, and it would be immediately available to the erop! while at the same time its fertilizing

But the practice of leaving manures entirely on the surface, is not in many cases the most judicious, for the following reasons:

1. If it is applied in an unformented state, uncombined with absorbant substances, some of its valuable properties might be lost during decomposition.

2. With hoed crops, fresh or fibrous manures on the surface of the ground, would be an obstacle, (more or less according to the quantity,) to cultivation.

3. Manures of any kind, or in any state, when left on the surface, might fail to benefit, the crop for which they were intended.

Let it be remembered that they are only available to plants when in a soluble state; and to be made soluble, they must be kept moist. We would therefore cover manures to such a degree as would best secure the advantages and avoid the objections here indicated, and no more.

On tenacious soils, a mechanical effect is sought to be produced by manures; that is friability of soil. This purpose is best accomplished by plowing in strawy fibrous manures in a fresh or unfermented state. This to is obviously, however, quite a different thing : from the application of manures to feed a crop: -Albamy Cult.

Reason, like polished steal, must be kept