ments so that they may be easily caught in the field, been patented by Mr. Charles J. Gustaveson, of Salt City, Utah Territory. The improvement consists in k bands connected to the ends of a chain by simple lurable connection.

CURIOUS FACT IN NATURAL HISTORY. BY C. F. HOLDER.

r illustration represents the American iguana crossing er, the Chagres, as wide as the Harlem at High Bridge, the surface of the water, without sinking below it. wonderful performance was witnessed by Mr. John G. such organ. Then, conditions be

the well known naturalid former companion of ıbon. Mr. Bell states as he was approaching iver he came suddenly the reptile, and alarmed that it sprang into the , but instead of sinking, is surprise, it rushed g over the water, making aws go like lightning, so he could not see them, thus keeping the whole above the water. It

e quite a foam behind, in about two minutes was the river, up the bank, out of sight. When it membered that this aniweighs from five to ten ids, and has slender claws I for tree-climbing, the derful character of the irmance will be appred. It is from four to feet long, and its general

tached to a cartilaginous appendage of the bone of the color. st. The tail is very long, slender, compressed, and red with small, imbricated, keeled scales. It has a very idable look at first sight, and when irritated it puts on ry menacing appearance, swelling out its throat pouch, ting the crest on its back, and lashing its tail about with t violence. It is, nevertheless, a harmless creature, unlaid hold of, when it bites with considerable force. Alther the occurrence is a most remarkable one and entirestagonistic to the supposed habits of the animal.

FRESH-WATER MEDUSÆ,

he Botanical Society. Our scienreaders will observe in the strucof this unique jellyfish the excepal characteristics which distinguish com other medusæ, as pointed out Dr. E. Ray Lankester in his report ie Royal Society, at a recent meetof the Society; where also Mr. erby showed a number of living imens which he had kept in conment, and mentioned some of their iliar habits. If the water is not t up to a temperature of about 85° ., the animal falls to the bottom of water and remains torpid until the perature is raised, when it again mes active. He has also observed medusæ feeding on the daphnia,

ch abounds in the same water. 'he diameter of the disk of the mea does not exceed one-third of an 1. Dr. Ray Lankester, to whom we indebted for the sketch from which illustration is engraved, states that s the only medusa which inhabits sh water, and must have been introeed with tropical weeds from the Indias _ Gampie

intensity. Con useduently, under equal conditions, transpira- be quite analogous to the peptic follicles of the human stomtion reaches its n

absorbs it through the conditions the organ. Con- sine is engaged. The results give the same reactions with conditions, the organ which has the sequently, under equat deepest color transpires strum in which the light is most peptones. active in that part of the spe absorbed.

(4.) The luminous rays which ing matter of an organ alone,

the transpir. the plants augments in proportion to its perties. The glands in the pitchers of Nepenthes he states to ach; and when the process of digestion is conducted with (3.) Light favors reagents, especially the characteristic violet with oxide of most, and transpiration is most copper and potash, and there can be no doubt that they are

> How Flying fish Fly. - Apropos of an article on this subare absorbed by the color- ject in the American Naturalist, Prof. D. S. Jordan, the "anor the transpiration of well known ichthyologish, gives the following statement in ing equal, the transpiral regard to the behavior of the large flying-fish Exocetus cali-

fornicus: This fish flies for a distance sometimes of nearly a quarter of a mile, usually not rising more than three or four feet. Its motions in the water are extremely rapid, and its motive power is certainly the movement of its powerful tail in the water. On rising from the water the movements of the tail are continued for some seconds until the whole body is out of the water. While the tail is in motion the pectorals are in a state of very rapid vibration, and the ventrals are folded. When the action of the tail ceases, the pectorals and ventrals are spread, and, as far as can be seen, held at rest. When the fish begins to fall, the tail touches the water and the motion of the pectorals recommences, and it is enabled to resume its



IGUANA CROSSING CHAGRES RIVER ON THE SURFACE.

NATURAL HISTORY NOTES.

Digestion in Plants.-Dr. Lawson Tait has recently been investigating anew the structure and digestive principles of plants. While he has obtained complete proof of the existence of a digestive process in Cephalotus, Nepenthes, Dionact, and the Droseraces, he entirely failed with Sarracenia and Darlingtonia. The fluid separated from one of the sundews (Drosera binata) he found to contain two substances, to which he gives the names "droserin" and "azerin." Dr. Tait confirms Dr. Hooker's statement that the fluid removed from

is green shaded with brown. It has a strong and distinct tion of a colored organ will reach its minimum under the flight, which it finally 'flinishes by falling in the water with running along the whole length of the back and tail, and influence of a light of the same color as the organ, and its a splash. When on the Wing it resembles a large dragonge dewlap or pouch under the throat, the edge of which maximum under the influence of a light of complementary fly. The motion is very swift; at first it is in a straight line, but this becomes deflet te d to a curve, the pectoral on the inner side of the arc being L ent downward. It is able to some extent to turn its course to shy off from a vessel. The motion seems to have no refer ence to the direction of the wind.

The Use of Chlorophyl in Vegetable Growth. - This question appears to be as yet by no mean, 3 definitely settled. Pringsheim, it will be remembered, recem. ly suggested that chlo, ophyl was chiefly of use as a screen to protect the subjacen t cells and their contents from those rays, of light which woold be adverse to the secondary processes that thave been distinguished as growth. But Dr. Gilbert, in L is recent

> to the influence of sufficient light, and may yet not assimilate a due amount of carbon. He shows that the presence of a due supply of potassium salt and of sufficient available nitrogen is necessary for the proper assimilation of carbon by plants. The amount of carbon assimilated evidently does not der end on the protective power of the chior ophyl alone, nor on its chemical action. In connection with the coloring matter of leaves it has been observed that the leaves of the Virginia creeper chal'ge to the well known beautiful red have sooner on walls exposed to the north and east, and that if the weather be wet during the time when they usually change color the red tint is only sparingly developed.

Influence of Coloured Lights on Animal Development.-M. Y ung, in a note to the French Academy (Comptes Rendus, p. 440), gives some of the results obtained by him in his experiments on the action of colored lights on the de. velopment of animals. Eggs of the squid and cuttlefish, laid at the same time, were put into vessels in arbi the water was regularly renewed. These vessels were placed in glass bowls of the same form, but larger, and the intervening space was filled with different colored liquids. The upper surfaces were covered with thick cardboard, so that the eggs received light that was nearly monochromatic. Under such conditions the eggs deveoped unequally, as had previously been found the case with the eggs of the frog, trout, etc. The development was stimulated by violet and blue lights, but retarded by red and green. Yellow light, in its action, came nearest to white. In experimenting with the beautiful ascidian Ciona intestina lis, M. Yung found that those larvæ which were reared in vessels submitted



ur engraving represents the Limnocodium soverbii, the the living pitcher of Nepenthes into a glass vessel does not address to the Chemical Section of the British Asso, Siation, 1-water medusa, recently discovered in the Victoria digest. A series of experiments led him to the conclusion points out that the plant may receive abundance of "itroia tank at Regent's Park, by Mr. Sowerby, the Secretary that the acid must resemble lactic acid, at least in its pr gen, may produce abundance of chlorophyl, and be subj. "Ct



5 ... • on the Transuence of Ligh. ruch piration of Plan. e Comptes Rendus' of the Fre-

lemy gives the following resume paper, by M. H. Comes, on the spiration of plants, being the rereached after numerous experital researches:

.) The emission of aqueous vapor ch takes place in plants is submitto the action of the physisot on. ' influence the ordinary igents which a free surface of poration from b Sheht Con er, but also to that on ditions a iently, under equal con it transpices more under the action ight than it doe. a by light on .) The action exerten