VARIETY OF STRUCTURE IN PLANTS AND ANIMALS, CORRESPONDING TO THE VARIETY OF CLIMATE.

"The organization of plants and animals is in different tribes formed upon schemes more or less different, but in all cases adjusted in a general way to the course and action of the elements. The differences are connected with the different habits and manners of living which helong to different species; and at any one place the various lations and mutual dependencies arising out of these differences. But, besides the differences of this kind, we find in the forms of organic life another set of differences, which the animal and vegetable kingdom are which the animat and the climates of the earth.

The existence of such differences is too obvious to require to be dwelt upon. The plants and animals which flourish and thrive in countries remote from each other, offer, to the eye of the traveller, a series of pictures, which even to an ignorant and unreflecting spectator, is full of a Peculiar and fascinating interest, in consequence of the novelty and strangeness of the successive scenes.

"Those who describe the countries between the tropics, speak with admiration of the luxuriant profusion and rich variety of the vegetable productions of those regions. Vegetable life seems there far more vigorous and active, the circumstances under which it goes on far more favourable, than in our latitudes. Now, if we conceive an inhabitant of those regions, knowing, from the circumstances of the earth's form and motion, the differences of climate which must prevail upon it, to guess, from what he saw about him, the condition of other parts of the globe as to vegetable wealth, is it not likely that he would suppose, that the extratropical climates must be almost devoid of plants? We know that the ancients, living in the temperate zone, came to the conclusion that both the torrid and the frigid zones must be uninhabitable. In like manner, the equatorial reasoner would probably conceive, that vegetation must cease, or gradually die away, as he should proceed to places further and further removed from the genial influence of the sun. The mean temperature of his year being about 80 degrees, he would hardly upper that any plants could subsist through a year, where the mean temperature was only 50, where the temperature of the summer quarter was only 64, and where the mean temperature of a whole quarter of the year was a very few degrees removed from that at which water becomes solid. He would suppose, that scarcely any tree, saraly or flower, could exist in such a state of things, and, so far as the plants of his own country are concerned, he rould judge rightly.

"But the countries further removed from the equator are not left thus unprovided. Instead of being scantily occupied by such of the trepical plants as could support a stanted and precarious life in ungenial climes, they are vast scale. double our wealth, and create new titles to wickedness or his ignorance, for to a question in abundantly stocked with a multitude of vegetables which national glory." The secret of this wonderful discovery catechism, he returned thanks 'for this state of starrage appear to be constructed expressly for them, inasmuch as consists in the making of a hollow cylinder of some cot- tion.' I took no notice of it; and he was, in truth, region these species can no more flourish at the equator than the equatorial species can in these temperate regions. And perpetually as we advance towards the apparently frozen hydrogen, which is to be inflamed by bringing a stylus of and untenantable regions in the neighbourhood of the pole. plating in contact with it, and which retires when the pres-Every zone has its peculiar vegetables; and while we miss some, we find others make their appearance, as if to replace above spares further comment.

: shose which are absent.

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"If we look at the indigenous plants of Asia and Europe, we find such a succession as we have here spoken of. At the equator we find the natives of the Spice Islands, the clove and nutmeg trees, pepper, and mace. Cimmamon bushes clothe the surface of Ceylon; the odoriferous sandal wood, the ebony tree, the teak tree, the banyan, grow in the East Indies. In the same latitudes in Arabia the Happy we find balm, frankincense, myrrh, the collec tree, and the tamarind. But in these countries, at least in the plains, the trees and shrubs which decorate our more northerly climates are wanting. And as we go northwards, at every step we change the vegetable group, both by addition and by subtraction. \* the thickets to the west of the Caspian Sea, we have the apricot, citron, peach, walnut. In the same latitude in Spain, Sicily, and Italy, we find he dwarf palm, the cyprus, the chesaut, the cork tree: the orange and lemon tree perfame the air with their blossoms; the myrtle and pomegranate grow wild among the rocks. We cross the Alps, and we find the vegetation which belongs to northem Europe, of which England affords an instance. The oak, the beech, and the elm, are natives of Great Britain: death of that individual. the eim tree sain in Scotland, and in the north of Engthat is the wych elm. As we travel still further to the the forests again change their character. In the northern provinces of the Russian empire are found forests of the various species of firs: the Scotch and spruce fir, and the larch. In the Orkney Islands no tree is found but the basel, which occurs again on the northern shores be the Baltie. As we proceed into colder regions, we still find species which appear to have been made for these

situstions. The hoary or cold alder makes its appearance company us to the head of the gulf of Bothoia: and as we Is it not dear that, while our religion is held separate from leave this and traverse the Dophrian range, we pass in succession the boundary lines of the spruce fir, the Scotch fir, and those minute shrubs which becauses distinguish as the dwarf birch and the dwarf willow. Here, If our religious teachers are right in telling our artizent babitable for animals and man.

"We have thus a variety in the laws of vegetable orhave been confined almost, or entirely, to some narrow zone on the earth's surface. We conceive that we see here the evidence of a wise and benevolent intention, overcoming the varying difficulties, or employing the and well being."

Solid Air .- The philosophers of Paris, by the aid of tremendously powerful apparatus, have succeeded in the consolidation of carbonick acid gas, one of the constituents of atmospherick air, so as to be both visible and tangible. The abstance, at a late sitting of the French Academy, was distributed to the company, tasted and handled -and the sensation produced by its touch is described as "the impression of extraordinary cold which a solid gas produces, when returning from a state of air." It is added that the company were much surprised at the slight effect resulting to the organs of sensation from contact with a substance, the touch of which congeals mercury and spirits of wine, and causes the thermometer to descend to ninety degrees below zero. To what is the world coming? If these French sarans are suffered to go on with their experiments, and thus convert the very element we breathe into hailstones and icicles, they may next catch the most hidden thoughts of the brain, turn them into lumps of matter, and pass them about like cracked filberts at a royal levee!

NEW MEANS OF PRODUCING EXPLOSION .- A memoir has been presented to the French Academy of Sciences, the title of which we give, as translated in the but he turned out very ill-was near committing murd London Athenaum, for the amusement of our readers : and through fear of it, induced a poor girl to marry hi "Memoir communicated to the Academy of Sciences, on I fear it was a sad affair, and perhaps will end in one an explosive mixture, which may be adapted by the go- the deep tragedies of the lower walks of life, of which vernment instead of gunpowder; the easy use and econo- there are more than the higher wot of. I had recollected micel nature of which must lead to the happiest changes this youlk being once a scholar in our Sunday School, he in the present system of fire-arms, produce economy on a he staid a very short time, and then shewed either ton material, and fine paper pasted on it, fixing a leaden and starved enough. - Bluckwood's Magazine. bullet at one end, and filling the rest with an explosive such new supplies, thus adapted to new conditions, recur gas, which shall contain one part of oxygen, and two of sure of the finger is removed. The mere statement of the

> CURIOUS .- A late Paris paper mentions that two poor fishermen found, while drawing the nets in the Seine near the Isle of Swans, a little wooden box, very neatly made and surrounded by plates of iron which were nearly destroyed by the rust. The box was in an excellent state of preservation, and hermetically sealed. On the out side were still to be seen some seeble traces of Fleurs de Lis, and the letters "M. de V." surmounted by a double royal coronet. The fishermen were delighted with their prize, and lost no time in breaking it open, expecting to find within a treasure of no ordinary value. But their surprise and horror may be conceived, when their eyes rested on a human head, embalmed and perfectly preserved! In the bottom of the box was a silken scarf, some withered flowers, and a poinard, the point of which was stained with blood. The box with its contents was purchased by one of the Savans of Paris-who is confident that it belonged to Marguerite de Valois, the Queen of Henry the IV. and the head is that of Cocons, which it is well known, she caused to be embalmed after the tragical

THE TORGUE OF THE DUCK.—When we consider the particular use which the duck makes of its tongue, we shall immediately perceive that it is endowed with great and unusal sensibility. The duck, unlike all other birds, discriminates its food, not by sight or by smell, but by the touch of its tongue. It thrusts its bill into the mud just as a fisherman throws his net into the sea, and brings op whatever it contains; from this monthful of stuff it! selects, by the tongue alone, what is good for food, and somewhat intimate acquaintance with Mr. and Mr. everything else is rejected.

PRACTICAL CHRISTIANITY.—Is it not clear that north of Stockholm: the sycamore and mountain ash ac-christianity has been long and widely misapprehended our politics, separate from our literature, separate from our science, it no more puts forth its full power than if a were held separate from our daily actions and thoughtal near to or within the arctic circle, we yet find wild flowers that their faith should go with them into their workshops of great beauty; the mezereum, the yellow and white -as well to animate the hand as to control the spirit, -a water lily, and the European globe flower. And when must also be right for our naturalists to carry theirs into species, boil of animals and plants, have a number of re- these fail us, the reindeer moss still makes the country the fields and along the caverned shore, for our scientific men to infuse theirs into their researches, and to let in preside over their experimental philosophy. The one ganization remarkably adapted to the variety of climates; may perchance find illustrations that he dreamed not of and by this adaptation the globe is clothed with vegetation, among the roosting birds, or the recovered treasures of and peopled with animals, from pole to pole, while, with- the deeps; and the other may be struck by relations they out such an adaptation, vegetable and animal life must could not anticipate between truths which had appeared unconnected. There may be something in the silent made tions of the firmament, or in the unvarying and multitudinon relations of number and quantity, or in the illimitable ex tent and mighty power of transmutation and affinity, which varying resources of the elements, with an inexhaustible may suggest new and high thoughts of the administration fertility of contrivance, a constant tendency to diffuse life of Providence, of the share which man has in them, and of the modes in which the most marvellous of its wonders and the most precious of its promises have been and shall be fulfilled .- Monthly Repository.

> A REMARKABLE Boy.—This reminds me of another case, in which a boy hanged bimself, but was cut down in time. I was called to see the boy; he was a half stupid, half-cunning, and wholly wicked looking boy, stunted in growth, apparently about sixteen years of age The account given of him was, that he was desperated wicked-that a little before, he had attempted to drie the plough over one of the farmer's children, and the were greatly afraid of him. I talked to the boy-'Wh did he do it?'--'The devil had told him to do it.'- When did he see him?'-'Very often.'-'What sort of a perse was he? - Like a gentleman, with a bit of white hanging over his boot.' I then left the boy and went into the house to talk with his mother, who had arrived, and di rected the doctor to be sent for. When I went out in the boy again, a man who had walked to the farm with me, was making him repeat the Lord's prayer. The had just come to the words, 'Give us this day our dail bread.'-Bread!' said the boy with stupid astonish mer looking up in the gentleman's face; 'we don't ha mi bread-mostly taties.' He did not make unother attention

## HALIFAX, SATURDAY, JULY 15, 1937

LITEBARY NOVELTY .- In the walks of literate the ladics of the United States are making rapid stri They seem determined to disprove the notion of some the lord's of creation, that the intellect of woman is in to that of man. We have lately received the Balti Monument for June 17—a paper entire original, and piece the composition of a lady. It abounds with of prose and sweet poetry, and concludes with a pi enchanting music by a lady. Nor is this all-for mis threatened with a similar paper in a few weeks, in w also the ladies are to occupy the editorial chair, doubting' as the present occupant says, 'but they wa honour to themselves in their new capacity.' We fess we were not prepared for such practical demonstrate tions of the spirit and talent that is fast waking up the female corps—the gents had bette: bestir themself or they will soon be ranked amongst the dull and of human kind.

MRs. Jones AGAIN.—The Christian Gastdian Upper Canada contradicts the rumour which has afloat concerning this singular lady. The editor who member of the Canadian Wesleyan Conference 227

"We have the pleasure, and such we truly estaged who since their matrimonial connection have resided in