For examples of that spirit which makes controversy ennobling alike to head and heart, we must turn to the great leaders of thought in the present age. The following paragraph from a notice of Mivart's "Genesis of Species" in the Liberal Christian is the best thing we have seen in that paper for many a long month :-

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PRINCIPOTE SLECT

"Meanwhile, what an example to theologians and historians and literary critics does not the spirit of the great writers in science of our day set! In respect of courtesy, candor, the single love of truth, the exercise of magnanimity toward competitors, the grateful sense of others' services, we know nothing in professedly Christian writers superior—might we not say equal?—to what is exhibited uniformly in Lyell, Huxley, Darwin, Wallace, Miyart. Indeed, the moral graces have rarely been so beautifully exthe morar graces have rarely been so beautifully exhibited in the heat of honest rivalry as by the whole class of English physicists of this generation. Darwin is the very Bayard of chivalrous honor and deference in his scientific writings. Wallace is a Sydney, and Mivart a knight sans peur et sans reproche. These men, differing greatly, earnestly, manfully, pages stoop to injustice or any erguments ad invision. These men, differing greatly, earnestly, manfully, never stoop to injustice or any arguments ad invidiam. They deal in no side looks at the public, like bad actors coquetting with the pit. They write on conscience, in the love of truth, in the fear only of doing each other wrong. Let alone Mr. Darwin's ethics or religion; make them theoretically what you will, be practises the highest religious principles and exhibits the most difficult Christian graces in his arms. the most difficult Christian graces in his ever tempting and exciting position as the head of a school which owes its importance to the sustained originality of his genius and the fortification of his cardinal doctrine. But he would evidently die sooner than willingly deceive as to a fact or deny another man's rights in discovery, When have theologians exhibited as much candor and love of truth? How will the odium theologicum bear comparison with the loves of these scientists, from whose honest researches clergymen commonly shrink as though 'their craft were in danger?' Such a temper can have in it no possible fruits of evil or danger to true religion."

THE BIRMINGHAM DAILY POST

INSECTIVOROUS PLANTS.

A paper on "Insectivorous Plants," was read to the members of the Natural History and Microscopical Society, Midland Institute, last evening, by Mr. Lawson Tait, vice-president of the society. There was a good attendance.

Mr. TAIT said: The fact that certain plants had Mr. TAIT said: The fact that certain plants had mechanical contrivances for the capture of insects had long been known, but its real bearing on comparative physiology was not recognised until Mr. Darwin brought to bear on it the effect of his marvellous powers of patient investigation and wide generalisation. The subject which they had to deal with that evening was another field, which promised another scientific victory, the testing of another of those missing links which were constantly presenting themselves, and which were always found to fit in somewhere so well. Mr. Darwin had made them slightly acquainted with some of his results, but they would not appear in full for some weeks. What he (Mr. Tait) had to say on the present occasion was chiefly the result of his own observation and experiment, and he ventured to communicate it at the risk, perhaps, of finding himself anticipated by Mr. Darwin, or of being subject to his correction. There were five classes of splants which possessed, or had been supposed to possess, arrangements for the capture of insects, of which they might accept four; but it was in the interesting class of the drostracea that the most undoubted examples were found. As in all other physiological matters there were great differences in degree, and it must not be supposed that every fly-trap was a fly digester; still less must it be taken for granted, as it has been too readily in the case of the sarracenia, that fly digestion must necessarily mean absorption of the products. In fact, direct absorption of the products by the leaves was so hypothetical that he was inclined to disregard it altogether. He knew Mr. Darwin was inclined to accept it, but he did not know his grounds. The?droseracea were a widely scattered family, inhabiting all climates, especially frequent in Australia, equatorial America, and south Africa. They knew only three varieties in this country, the drosera rotundifolia, drosera Anglica, and drosera intermedia, with perhaps a doubtful fourth, named drosera oboveta, whi mechanical contrivances for the capture of insects had long been known, but its real bearing on com-

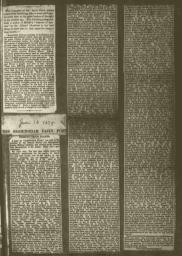
told them that Mr. Whateley, a surgeon, of London, first noticed that the folded leaves of the D. rotundifolia all contained dead insects so long ago as D. Totundifolia all contained dead insects so long ago as August, 1780, but his thought the ment of the first accurate observation on the matter must be given to a Bremen maturalist, named Roth, who published in 1782 a paper, "Von der Reizbarkeit der Blitter des sogennanten sonnenthanes." Withering's reference to Whateley was not published for eight or nine years after, and the way in which it was done bore evidence that it was an attention in the second of the second published for eight or nine years after, and the way in which it was done bore evidence that it was an attention of the least of the second published for eight or nine years after, and the way in which it was done bore evidence that it was an attention of the least of the second published for eight of the second letter settled the matter, for he stated that he noticet content of the least of the second letter and conduct considerably in first have altered its character and conduct considerably in first have altered its character and conduct considerably in first have altered its character and conduct considerably in first have altered its character and conduct considerably in first have altered its character and conduct considerably in first have altered its character and conduct on the second letter that the second content of the matter, for nothing short of the natural footnet on the matter, for nothing short of the natural for the second content of the second letter was a great abundance of the process, they were compelled still to employ, even though it must be admitted that mere irritability would not account for the whole of the phenomena. The leaves of the sunder what on difference in structure from that of other leaves, save that there was a great abundance of regularly distributed spiral vasselar tissue, extending from the leaf stalk to the feaf and thence into each of the genuine state. It is a second to the second content of the glands if the object was large enough to require it. For it was one of the most interesting facts of the whole enquiry that if the insect was very small, and was caught in the glands near the margin of the leaf, only those fringe fingers in its immediate neighbourhood closed over it. Nothing short of some rudimentary form of nervous system seemed to him enough to account for this action, and though he could recognise no structure in the leaf which he could identify as such, he thought it was not impossible that the fibro-vascular bundle might have such a function. The closing of the fingers generally took from twelve to thirty-six hours. After it was accomplished a set of movements took place affecting the body of the leaf. The upper and outer margin curved forward and inwards over the fly, so that the latter was embraced within the leaf, and evaporation was prevented. If the leaf was very active, still another movement took place, consisting of the bending of the leaf forward and downward, so that the back of the leaf was turned upwards, and the incurved face downwards. This condition lasted for two or three days, and then the folds gradually widened, and the dried remains of the insect dropped off. He also described the action in the D. binsta, and in the leaves of the saxifraga tridactylites, the D. intermedia, the dionæa muscipula. The latter beautiful fly-traps had recently been the subject of investigation by Dr. J. B. Sanderson. In describing this Mr. Tait said that when the leaf was hungry the lobes were widely separated, and the surface was seen to be speckled with red dots. This was due to the erythrophyll of numerous glands exactly the same in construction as those already described in the D. rotundifolia, but without fingers. They were not wet while the leaf was open, and the fluid they secreted when in action was not viscid. On these points he knew that he was not in harmony with other observers, but he was very positive about them. Besides these glands three fibres almost colourless might be seen

were not hairs. Stimulation of the fibres induced closure of the trap in a few minutes, and when a large blue bottle fly was put into the trap it closed almost instantaneously, and with each struggle of the fly spasmodic efforts on the part of the leaf to close more tightly might be seen. The closing of the lobes took place quite independently of the temperature or nature of the substance used to stimulate, so that it was not due to any communicated current. The method of closure was curious, for it did not depend merely upon an influenzal exerted at the base of the lobes where they joined, for it began by the bending downwards of the marginal spikes, and the incurvation of the whole margin of the lobe, so that its inner surface, previously almost plane, became in a great measure convex. He had found that too large a meal was detrimental to the leaf, and of course for a very small one. But after some hours the contracting force of the leaf seemed to be re-exerted very slowly but very powerfully, for the spikes were straightened, the incurvation of the leaf greatly diminished, and the lips of the trap brought accurately together, so that evaporation of the contents was impossible. This force was unquestionably exercised at the hinge. By this time secretion had begun and the insect was killed. There was a large number of most important questions in connection with these wonderful movements which required most careful working out. Some of these Mr. Darwin was engaged upon, and some he (Mr. Tait) had taken up, but none as yet were completely answered, save the one undertaken by Dr. Sanderson—namely, "What is the electrical condition of the leaf in relation to these movements." He quoted from the results of Dr. Sanderson's investigations as published in the proceedings of the Royal Society. Dr. Sanderson's observations showed completely that the currents in the dionæa were exactly similar in the laws to which they were subject to the currents in animal muscle and nerve; for when the leaf-stalk was placed in the elec

Royal Society. Dr. Sanderson's observation showed completely that the currents in the dioms of the corrects in the dioms of the currents in animal muscle and nerve; for when the leaf-stalk was olaced in the electrodes the ralvanometer indicated the existence of a current opposed in direction to that of the leaf, showing that the electral conditions in opposite sides of the joint between a conditions in opposite sides of the joint between a conditions and against the electro-motive force by the other. This was completely in accordance with what was observed with reference to nerve. He was enabled by accident to make observation which was singularly engestive of the aisoldism of the analogy. The property of the control of the electro-motive force by the other. This was completely in accordance with what was observed with reference to nerve. He was enabled by accident to make observation which was singularly engestive of the aisoldism of the analogy, the property of the control of the electro-motive force by the control of the electro-less in a clear the found in the electro-less in a clear that the other should be also the following found the electro-less in a clear that the sense of the damaged diomac leaf was identical with that of a man who had had his back broken, and the spinal cord search of the electro-less in the following found in the electro-less in the following found in the electro-less i

believed.

There were exhibited fine specimens of Cristatella plumosa, which has lately been plentifully distributed by the Waterworks Company through their mains. The newly-discovered animal Bucephalus polymorphus was also exhibited. A specimen of a young pup, perfectly formed in all but the head, having no eyes, no nose, no mouth, was exhibited by the secretary.



THE FAILURE OF T. S. WEBB.

YESTERDAY'S MARKETS.

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