THE PALM HOUSE

furnishes shelter and warmth for Palms, Mauritius fan palm, and the cabbage palms, are among the finest specimens. The plansome of the leaves being ten feet long by two years, support bunches of fruit of twenty and thirty pounds weight. Except in the form of the fruit, the banana in no wise differs in appearance from the plantain. The in this house. Its leaves are arranged about the stem in a beautiful spiral like an Archimedian screw, and their form is not unlike that of the pine apple plant. This tree is also remarkable in having the thickest part of the stem uppermost, which, crowned as it is with large masses of heavy leaves, presents a problem as to how it can support itself even in a moderate storm. The solution of the problem is simple and interesting. Aereal roots protrude from the stem, incline towards the earth, and there fix themselves partly in a vertical, and partly in a horizontal position. Thus the tree is buttressed or propped up. The specimens THE NATURAL AQUARIUM AND PLEASURE which I saw have never flowered; but in India the delicious perfume of its flowers is said to pervade the air for a mile around .-Here too are the reedy bamboo, the palmlike vegetable ivory, and beautiful cycadeaccous plants, with palmy leaves, cone-like fruit, and wood with concentric circles like the fir. Of these latter plants one species, needle-leaved, looking half fern, half palm. shoots up vigorously from its huge pot .-This plant, as well as the tribe to which it belongs-included in which is the sago plant of Japan-is very interesting both botanically and geologically; botanically in consequence of forming a link intermediate with ferns and pines; geologically, from similar plants being found fossilized in England in the colitic formation, thus shewing that in the far past these strange plants flourished in the British Islands, though now almost wholly confined to the Southern hemisphere. The arborescent ferns in this house are mostly young plants. The stem of a fine plant of the cyathea serra is upwards of 20 feet in height, and the fronds of another species, schiediana, are from 10 to 12 feet in length. Other large-leaved plants as the Streilitzia THE HORTICULTURAL AND AGRICULTURAL augusta from South Africa and the plant which bears so great a resemblance to it arbre du voyaguer of the French, are at hand for inspection. The leaves of this latter plant, where they overlap each other, hold water, which is always fresh. When Experiments with different kinds of manthese leafy basins are pierced with a spear or other sharp instrument, the water gushes out and supplies the thirsty traveller with a cooling drink.

# THE CAMELLIA HOUSE

other plants remarkable for their foliage.

houses used for young stock of seedlings, The heating is effected chiefly by steam.

# THE ORNAMENTAL FLOWER GROUNDS.

It is refreshing to breathe the open air after inhaling the warm humid atmosphere of the conservatories. Immediately in front of the beautiful residence of Dr. Moore and extending along side and beyond the line of hothouses is a broad belt of Ornamental Flower-ground, laid out in beds on grass interspersed with single specimens of rare and ornamental shrubs and trees. The beds are filled with a great variety of showy annuals and other half hardy plants. Among the ornamental shrubs and trees, are the New Zealand Flax; the Drimys vinteri, which yields the Winter's bark of the pharmacopæias; the Babylonian Willow, of mournful memory to the captive Jews; and other interesting trees from North America Patagonia, and China. Among the ordamental grasses are the arundo donax the pampas grass of South Brazil. The latter the beauty of this ornamental division.

# PLANTS.

also, as far as can be given, is written on for specimens of diseased trees, to illustrate comprise a large portion of the population Plantains or Bananas, and Arborescent large wooden labels. These are placed at something of the pathology of plants. Ferns. Some of the palms are 30 feet in the end of each order and ranged along the height, and all have great leaves forming margin of the walk in such a manner as to stately tops. The great fan palms, the render it impossible for the student to pass from one order to another by mistake. The the training of young men in this great esarrangement of British plants on the opposite tablishment, who annually go forth to differ- with James E. Potter, Esq., who kindly tains also have a great expansion of leaf, side of the walk is after the method of M. ent parts of the country diffusing much of brought us on to Annapolis, we counted De Candolle. The different natural orders the information they acquire while here. four wide. Banana plants, the growth of are contained in separate beds formed on the There are two classes of young men receivgrass, with names placed at the end of each ing regular and practical instruction, under bed. Adjoining these native plants are the supervision of the curator of the Garsuch medicinal plants of modern pharmaco- dens. The first class consists of those who pæias as will flourish in the open air. The are already acquainted with the practical Screw Pine or Buttress Tree is to be seen method of arrangement is the same as that parts of horticulture and are admitted to of the British plants.

affords an excellent opportunity of observ- These students are lodged in the Gardens Tupper, in the afternoon by Rev. John ing effects produced by grouping together the and remain two years. During the first different species of trees and shrubs. The year they are employed in the conservatories plants are classified after the system of and the second in the outside grounds. Linnaus. Among the more noteworthy They are admitted in the order of their aptrees in these fine groups are the Olive, the plication. The second class consists of recedar of Lebanon, the cork tree, a young gular apprentices, who also lodge in the gar-Wellingtonia Californica (the huge cypress dens. Both classes have the advantages of we have all read about), and the plane tree, a good library and reading room. The groupes of ashes and cypresses are very beautiful.

# GROUND.

den occupies the low-lying ground. The of 250,000. foliage of this garden is very light in colour and shimmers in the sun like silver. The collection of willows is extensive. They are cultivated for the purpose of shewing specimens and supplying cuttings to those interested in willow culture for economic purposes. Near by are two massive lines of yew trees, between which is "Addison's walk," said to have been the essayist's favorite when he was Secretary to the Marquis of Wharton. Rare shrubs find shelter on the south side of the rows of yew.

exhibit selections of the more important plants for field cultivation, and small quantities of numerous varieties of the different vegetables raised for culinary purposes. ures on various crops are also tried here The fruit tree division is occupied with hardy sorts, including pears, apples, plums, and cherries, all of which are true to their names, and many of them profitable varieis set apart for Camellias, Azaleas, and ties for cultivation in Ireland. Fruit Rhododendrons, during the colder months. growers on application, can obtain grafts, February and March are the months to see it and any assistance necessary to correct the in its glory. During the summer and nomenclature of their hardy fruits; as well autumn, when the camellias are removed, it as ascertain the merits of the different varis filled with the hardier sorts of palms and leties. A general collection of exotic grasses It has been ascrtained that this arose, not from is arranged in natural sections. The kinds In addition to the houses which I have best suited for agriculture are separated named, there are ample double-roofed pit from the general collection, and cultivated in compartments. Between the two, a porand plants for bedding out. All the houses tion of ground is devoted to the hardy plants are abundantly supplied with water raised used in arts and manufactures, beginning from the river Tolka by hydraulic pressure. with those useful for their fibre, and followed by those yielding oils and dyeing materials. Each section is marked by a board and the plants are separately labelled. A large portion of ground is set apart for culinary plants, which are cultivated in square divisions, and arranged so that notes can be readily taken of any experiment made on their culture, and the methods of rotative cropping exhibited. This part of the Gardens terminates with a selection of the different sorts of pot-herbs.

# THE MUSEUM.

Having given this hurried and very imperfect sketch of the several departments of

fie designation of each with the English, It is also proposed to have a department

### THE TRAINING DEPARTMENT.

A most important department, is the this establishment for the purpose of studying practical botany, along with the management of plants and pleasure-grounds. morning the preaching was by Rev. Dr.

It would be difficult to over-estimate the influence of these Gardens as a great and popular instrumentality for the diffusion of knowledge, and the cultivation of taste; and they are strips of Eden. The beautiful winding are wisely maintained by the British Govsheet of water bears on its placid surface ernment as one of the educational establishthousands of water lilies. Various kinds of ments of the land. Dr. Moore assured me Taking the whole totals under "Increase :" aquatic plants grow along the margin of the that the extent and natural beauty of the viz. By baptism 213, By Letter 69, and little lake. Fine groups of the different ground and variety of objects embraced are Restored 11; and then those under "Despecies of Cat's-tail of a rank growth, are at not to be found combined in any other Bothe lower end of the Aquarium. The grounds tanical Gardens in Europe. The gates of on both sides of the water are occupied this magnificent school are open free to all with various sorts of ornamental shrubs and classes of the people, and the annual enrol- totals we know do not in reality shew the trees, among which is a splendid tree of ment of those who seek instruction and the copper coloured beech. A Willow gar- pleasure within, reaches the high number

Very sincerely yours, T. H. RAND. Dublin, August, 1870.

# For the Christian Messenger.

### OUR FOREIGN MISSION.

Mr. Editor,-It will be doubtless to gratifying to the friends of this Mission to know, that provision has recently been made for the re-employment of two more native preachers. As it is desirable to make posts of usefulness without any avoidable preacher adopted two leading divisions : delay, contributors to the Mission, in any be in their power.

Yours fraternally, C. TUPPER, Sec'y. Aylesford, Sep. 30, 1870.

after my return from Convention, that there was | wisdom. It was an exceedingly well-timed n discrepency between my accounts of the sums neknowledged as received from Women's Missionary Aid Societies and the amount in hand the loss of money, but from an oversight in paration for publication in the Christian crediting one of the Societies with \$24.00, when the sum forwarded was only 14.50, as their letter now in my possession shews. It is my intention to publich a statement of

sums recently received so soon as information relative to the objects for which certain sums are designed, shalf have been received.

HALIFAX, OCTOBER 5, 1870.

THE N. S. WESTERN ASSOCIATION so auspiciously begun, as noticed in our last, was equally pleasant and satisfactory in its subsequent meetings.

the Gardens, the Museum claims a few comprises a large district of country of Rev. P. F. Murray gave some interesting words. The iron house which is temporar- several miles in extent on the eastern side details of Shelburne town and county, ly used for this purpose is unsuited for a of the Annapolis Basin. Clements-port is where he had labored as a missionary. Museum but it has afforded accommodation at the mouth of Moose River, and contains He had found many families within only a for a good beginning. There are specimens a number of handsome residences and few miles of Shelburne which no minister of preserved fruits, a good series of fibres churches. For several miles up the river had ever visited, where there seemed a and samples of cloth, and many parcels of it is called Clementsvale. All along the readiness to listen to the good news, but gigantic reed of the South of Europe in the the inner barks of trees, with paper, and its branches are fine farms with where darkness reigned supreme. He had ropes, and garments made from them. There comfortable surroundings. The country felt deeply the great demand for christian was first raised in Europe in these gardens. is a fine collection of cones and seed vessels, being a series of undulations great variety labor among the poor and destitute. The rockery with its pretty plants, and the barks for medicine and for dyeing, sections is given to the scenery. The sides of Rev. W. H. Richan thought there should fountain and small aquarium add greatly to of woods, of diseased trees, many of the bills being covered with be more attention given to this great matshewing the internal effects of grafting, and hard wood trees presented in their foliage ter. He highly approved of the remarks THE DEPARTMENT OF HARDY HERBACEOUS numerous other specimens of interest. The an exquisite combination of autumnal tints, made respecting one Board for the Province, Museum is intended ultimately for the ex- various shades of green, red and yellow, in and thought that much good might be efis carefully arranged. The plants are group- hibition of all vegetable products in their many places gave a richness and beauty fected by more vigorous measures being ed in natural orders or according to the raw state, especially of those useful in do- to the landscape peculiar to this season adopted. There must be a wise oversight, matural system of classification. The scienti- mestic economy, medicine, and the Arts, of the year and to this climate. and he believed that many places might

THE POTTER FAMILY

of this district. Branches of the family are found all along the road from Annapolis Royal to Hillsburg, but they centre at Clementsvale, almost every house belonging to one of that name. In company upwards of thirty families. Besides these there are many other families in which the wife's name was Potter.

Although the ministers of the Association were engaged on the Lord's Day, in preaching in so many places at a distance, yet at Clementsvale, where the Association was held, large congregations assembled at each of the three services. In the Rowe, and in the evening by Rev. Dr. Sawyer.

The distance of the dwelling-houses from each other was unfavourable to large numbers attending the early morning meetings, but this did not prevent them from being held. Each morning at & past 6, prayer arose from quite a number of earnest worshippers, and blessings were received, we doubt not, in answer thereto.

Letters were sent from 59 out of 60 churches. They shewed that a total of 213 persons had been received by baptism; an average of about 31 per church, and less than 2 per cent on the whole membership. crease," we find that there have been 115 Deaths, 58 Excluded and 165 Dismissed. and we have an actual loss of 45. These correct state of the case, but they make the nearest approach that can be obtained un der existing circumstances and arrangements.

In consideration of this small number of additions, and the general want of prosperity in the churches, it was proposed that a season of special prayer to God for the outpouring of his Spirit should be held. This was readily adopted and 9, 30 a. m., on Tuesday appointed for the purpose.

# On Monday morning the

INTRODUCTORY SERMON was preached by Rev. R. D. Porter from 1 Cor. i. 22, 24. The subject was, "Christ crucified the highest manifestation a remittance to Burmah soon, especially and embodiment of the wisdom of God." in order that these may again employ their In the development of this theme the

1. Christ exhibited himself as the wisof its departments, who have not lately dom of God in his character of a reformer. forwarded their contributions, are respect- The reformation was to be a thorough one, fully requested to do it as speedily as may reaching to the hearts of those to be reformed, and to the foundation of society and of their being.

2. In giving to his reformation an external and visible organization, such as he has in P. S .- It will be remembered that I stated, his church, Christ has exhibited divine and appropriate discourse for the occasion, and well deserved the commendation it received. A resolution requesting its pre-Messenger was unanimously adopted.

After the sermon the report of the Home Mission Board was presented.

Rev. Isaiah Wallace shewed the great importance of Home operations and the great obligations which he was laid to the cause of Missions. He gave some interesting accounts of his own labors as a missionary in New Brunswick, and the good results. He was fully convinced that there should be one Home Missionary organization for the Province. This is the great work of the Association, to earry the gospel beyond the limits of existing churches. Much more ought to be done. In the spirit of the older ministers we should go out, and by that means the churches would know the destitution that existed, and would be stirred up to greater efforts on behalf of their fellow countrymen.