

AN ACCOUNT
OF THE
HERBARIUM
OF THE
UNIVERSITY OF OXFORD



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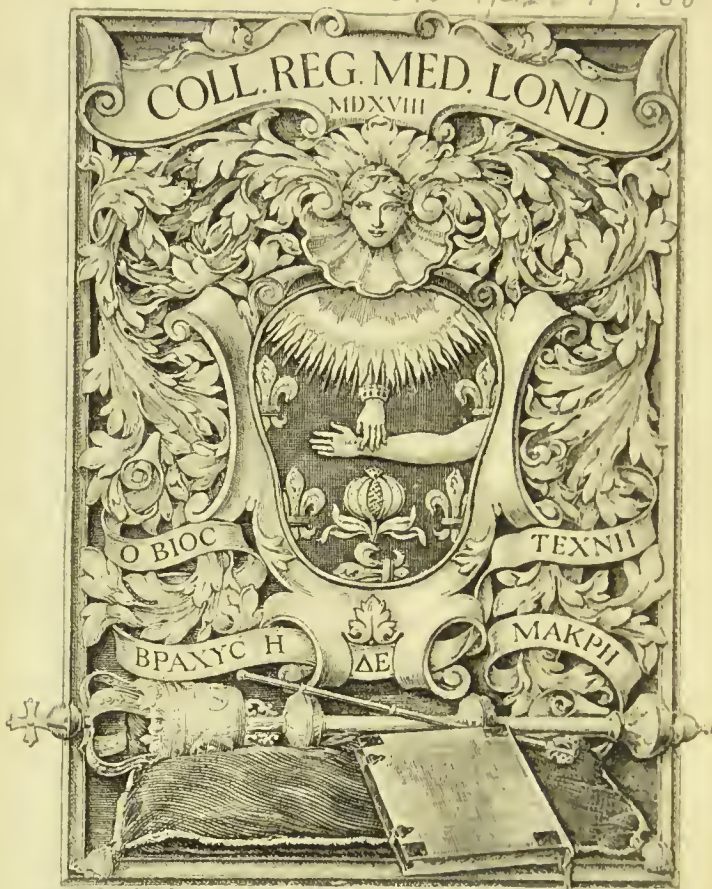
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1897



HENRY FROWDE, M.A.

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INTRODUCTION

INASMUCH as no account of the Herbarium belonging to the University has been published since the issue, in 1863, of the late Professor Daubeny's *Popular Guide to the Botanic Garden of Oxford* (2nd edition), it is clearly high time that such a step should be taken. Accordingly the following pages have been prepared by the Curator of the Fielding Herbarium, Mr. G. C. Druce, Hon. M.A. On comparing this account with that of Professor Daubeny, it will be seen that, during the intervening thirty-four years, large and important additions have been made to the Herbarium; and it is to be hoped that the Herbarium may continue to increase in the future. But, in view of the limited space available for its accommodation, as well as for other reasons, it has of late years been necessary to exercise discrimination in adding to the Herbarium. It cannot be hoped to accumulate here collections to rival those of Kew

or of the British Museum ; and even were it possible, it is by no means clear that it would be desirable. A less ambitious aim, and one commensurate with the available space and resources, has been adopted ; namely, to render the Herbarium as complete as possible as regards the Flora of Europe and of the countries forming the littoral of the Mediterranean.

S. H. VINES,
Sherardian Professor.

June, 1897.

THE HERBARIUM

OF

THE UNIVERSITY OF OXFORD



THE botanical collections (with the exception of the Museum) are now contained in the building which was erected by Dr. Daubeny, about 1836, as a residence for the Professor of Botany; they occupy two large rooms on the first floor and four rooms on the second floor.

The collections are distributed as follows:—first, the collections of special historical interest; secondly, the Fielding Herbarium, which has become the General Herbarium; thirdly, the British Herbarium; and fourthly, the Cryptogamic Herbarium.

The following is a brief account of these various departments.

I. THE SPECIAL COLLECTIONS.

With the exception of the Du Bois collection, all of these will be found in Room No. 1, on the first floor.

1. The oldest collection is a volume of dried plants (300 in number) which is labelled on the back 'Herbarum

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Diversarum Naturalium Gregorio a Reggio,' the covers of which are made out of an early Italian Service Book. The plants are fastened to the leaves with strips of paper by means of a resinous gum. The plants were collected in North Italy by a Capuchin monk, Gregory of Reggio in Bologna. He was a correspondent of Columna and Clusius, who is mentioned by Haller in the *Bibliotheca Botanica*. The date of the collection is 1606, so that it is one of the earliest in Britain; and it is the more interesting on account of the accompanying labels, which give a very complete synonymy, together with the use of the plant and the habitat, the time of flowering, and in some instances the actual locality where gathered. A contemporaneous copy of the labels in a manuscript volume written by Christophorus of Poggio is contained in the Library: both it and the *Hortus Siccus* were obtained by Professor Sibthorp.

2. THE BOBART HERBARIUM comes next in point of age. It was formed by Jacob Bobart, the younger, probably when he was employed as assistant in the Botanic Garden about 1670. It was originally contained in twelve quarto volumes: these have been cut up, but the arrangement is unaltered. About 2,000 specimens, with the English and Latin names attached, are comprised in it. The plants in many cases are evidently cultivated examples, and no localities are given.

3. THE MORISON HERBARIUM consists of about 5,300 specimens mounted on the original sheets and arranged according to Morison's *Plantarum Historia Universalis Oxoniensis*, the first volume of which (called 'pars secunda') was published in 1680. The second volume did not appear until 1699, Morison having died in 1686. The second volume was edited, if indeed it were not principally written, by the younger Bobart, who succeeded Morison

in the Professorship. The Herbarium shows no traces of having been formed by Morison, each plant being labelled in Bobart's handwriting. The plants, which are described in the first volume of the *Historia*, were probably collected by Bobart after the publication of that volume: whilst the plants illustrating the second volume were probably the actual specimens described by Bobart. The collection also includes a considerable number of woody perennials, &c., which were to have been described in a third volume, of which a preparatory MS. in Bobart's writing is preserved in the Library. The collection contains specimens from many botanists, including Petiver, Plukenet, Aubrey, Evelyn, Dr. Bulkley, Du Bois, Dr. Richardson, Sir G. Croke, Sloane, Doody, W. Sherard, Plot, Buddle, Lloyd, Stephens, Alex. Brown, Tournefort, Hermann, Nissole, Banister, Catesby, Vernon, &c. The collection is now contained in four cabinets.

4. THE HERBARIUM OF CHARLES DU BOIS, Treasurer of the East India Company, consists of about 13,000 sheets now kept in three large cabinets in Room No. 5 (on the second floor). It was formerly contained in seventy-four large folio volumes arranged according to Ray's *History of Plants*; these have been cut up and the plants mounted on ordinary herbarium-paper, being roughly arranged in the Natural Orders according to their geographical sources, as British, European, Asiatic and American. The habitats of a large number of the plants are given, and the collection is especially rich in East Indian plants collected by Dr. Ed. Bulkley, D. Du Bois, and W. Hancocke. The Indian names are often given.

The British plants include a large number collected by Stonestreet, and there are also plants collected by Adam Buddle, Isaac Rand, James and William Sherard,

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Dr. Manningham, J. Bobart, Dr. Richardson, W. Stephens, Dillenius and others. The European plants were contributed by T. Herle from Lisbon, W. Sherard from Candia, Salvadore from Spain, &c. The American specimens were supplied by Krieg and Vernon from Maryland, and Mark Catesby from South Carolina, Houstoun, Fenwick, P. Miller, and R. Millar being also contributors.

A large number of plants from the Cape of Good Hope were sent by Mr. Alex. Brown, and Mr. Cunningham supplied a few from China.

The period covered by the Du Bois Herbarium is from 1690 to 1723.

5. THE HERBARIUM OF W. SHERARD, sometime Consul at Smyrna, and the founder of the Sherardian Chair of Botany at Oxford (1728). The collection, bequeathed to the University by W. Sherard in 1726, contains over 14,000 sheets, which are labelled by Sherard and Dillenius: Sibthorp subsequently added the Linnean names in many cases. The specimens are roughly arranged as follows:—

European, 8,170 sheets.

American, 2,930 sheets.

African, chiefly from the Cape, 1,200 sheets.

Asiatic, 2,000 sheets.

Miscellaneous, about 200 sheets.

The arrangement is by no means strictly adhered to, nor is it correct, since specimens from Persia and Siberia are included among the European plants, as well as plants of garden origin.

For nearly a hundred years the Sherardian Herbarium was made to serve as the General Herbarium; but the few specimens which were added during that period of time have been removed, so that the Sherardian Collection now consists only of the material bequeathed by Sherard,

and on which Dillenius spent several years of labour. A considerable number of Vaillant's plants are contained in it, and among the numerous sources from which it was obtained may be mentioned—Tilden, Hudson's Bay; J. Bartram, Pennsylvania; Mark Catesby, South Carolina; More, New England; Houston, Jamaica and Carthage; Mylam, Buenos Ayres; F. Soldau, Davis' Straits; Commelin, Africa; Dr. Ammann, Irkutsk. Among the celebrated European contributors, in addition to Vaillant, may be mentioned Linnaeus, Tournefort, Jussieu, Micheli, Haller, and Hermann. The British botanists represented by specimens include Stonestreet, Littleton Brown, Dillenius, Dr. Uvedale, Richardson, Rand, Doody, Dr. Lister, Brewer, S. Dale, Du Bois, Dr. Manningham, J. Sherard, Blackstone, &c. William Sherard's collection of plants from Smyrna is also included.

Unfortunately a large number of plants are unlocalized, and a considerable number are cultivated specimens. The dates range chiefly from 1700 to 1726. The collection is now contained in sixteen cabinets.

6. THE HERBARIUM OF J. DILLENII, first Sherardian Professor of Botany at Oxford, 1728-1747.

This very interesting collection of British Plants was made by Dillenius to illustrate the third edition of Ray's *Synopsis*, which was edited by him and published in 1724. Many of the plants were collected subsequently to that date, and were probably meant to be used in the preparation of a fourth edition. The plants are arranged in the order of the third edition, and are accompanied by a large number of notes and localities. The collection includes the plants gathered by Dillenius on his journey into Wales and the west of England, a detailed account of which is printed in Richardson's *Correspondence*. Some of the

plants were additions to the British Flora. It also contains specimens from the British botanical contemporaries of Dillenius, as also the Cryptogamic collection used by Dillenius in his preparation of the work already mentioned, and also of his *Historia Muscorum* which was published in 1741. The Mosses in the collection have been determined by Lindberg.

A copy of Ray's *Synopsis* which belonged to Dillenius, the copy of the *Hortus Elthamensis* the plates of which are coloured by himself, his interesting copy of the *Historia Muscorum*, and the MS. in eleven volumes for the *Pinax* (which was never published), as also the original of the letter published in the *Richardson Correspondence*, his drawings of Fungi, and an oil-painting of him, are all in the Library.

7. THE HERBARIUM OF JOHN SIBTHORP (Professor 1784-1795) consists of the plants collected by him during his journeys to the mainland and islands of Greece during the years 1786 and 1794. An account of the journeys is given in the biography of Sibthorp which was written by Sir James Smith for Rees' *Cyclopaedia*. Ferdinand Bauer, the celebrated botanical artist, accompanied Sibthorp on his first journey, and made over a thousand water-colour drawings of the plants collected, which were afterwards published in the sumptuous *Flora Graeca*; but the three volumes of paintings of the animals, birds, fishes, and reptiles of Greece were never published: these paintings are preserved in the Library. The paintings of the plants are the finest in existence, being as scientifically accurate as they are artistic.

The Herbarium, which numbers over 2,000 sheets, is contained in three cabinets. It is now arranged according to the *Prodromus Florae Graecae*, with references to that

work and to the *Flora Graeca*. The manuscript diary which Sibthorp made during his journey is in the Library, where there also is an oil-painting of him. The Library also contains his MS. for the *Flora Oxoniensis*, and a fine copy of the *Flora Graeca*.

8. THE HERBARIUM OF DR. SHAW, collected circ. 1720 in Barbary, numbers about 660 species, which have been named by Dillenius, and of which a printed catalogue is preserved in the Library.

II. THE GENERAL COLLECTION.

THE FIELDING HERBARIUM, which had been formed by Henry Fielding, Esq., of Myerscough House, near Garstang, Lancashire, was, in compliance with his dying wish, generously presented to the University of Oxford by Mrs. Fielding in 1852, and forms the main part of the General Collection. It numbered over 80,000 specimens, and included the Herbarium of M. Hermann of Gorenk, and that of Professor Steudel of Esslingen, which were acquired by Mr. Fielding in 1836; the Herbarium of Mr. Prescott of St. Petersburg, which was purchased in 1837, and was said to contain about 28,000 sheets; and the Herbarium of Dr. Blume, which contained 3,000 specimens.

The original contents of the Fielding Herbarium may be roughly summarized as follows:—

I. EUROPEAN PLANTS.

Great Britain: Principally of Mr. Fielding's own collecting.

Russia: The 'Flora Petropolitana' collected by

Prescott, and formerly kept in separate portfolios, but now incorporated in the general collection.

Plants collected by Boschniak from Elizabethgrad, and from Hauptit from Catherinoslav.

Switzerland: Schleicher, Thomas, Fleischer.

France: Bentham, Sieber (Corsica).

Italy: Hoppe from Piedmont, Mueller's Sardinian plants.

Spain: Endress (Pyrenees), Boissier, Durieu, Reuter.

Austria-Hungary: Heufel, Lang, Wiersbicki, Hoppe, Fleischer, Hochstetter, Hinterhuber.

Greece and its Islands: Aucher Eloy, Heldreich.

Rumelia: Frivaltsky.

2. ASIATIC PLANTS.

Russia: Bieberstein, Steven; Compère from Odessa; Ledebour, Meyer, Gebler, Besser, Bunge, and Fischer from the Altai Mountains; Turczaninow from Siberia; Mertens, Fischer, Kastalsky from Kamtchatka, &c.; Wilhelms, Hohenacker, and Meyer from the Caucasus.

Turkey: Compère, Bieberstein, and Steven from Tauria; Aucher Eloy from Smyrna, &c.; Kotschy from Taurus and Aleppo; Schimper from Syria and Palestine; Dr. Sebasti Fischer.

Arabia: Schimper, Fischer, &c.

Persia: Szowitz, Gmelin, jun., Aucher Eloy, &c.

India: About 3,000 species from Dr. Wallich; Mr. Law's plants, Bombay, &c., from the Lambert Herbarium; Dr. Wight; Lieut. R. S. Simpson, 500 species from the Himalayas; Colonel Walker's plants from Ceylon.

Philippine Islands : Over 2,000 species from Cuming.
Singapore and Java : Lobb.
China : Bunge, Fortune, Rev. J. Vachell.

3. AFRICAN PLANTS.

Cape of Good Hope : Over 2,000 species from Drége,
 Ecklon and Zeyher, Burke, Sieber, and Krebs.
Natal : About 350 species from Krauss.
Senegal : Sieber.
Senegambia : 500 species from Hudelot.
Egypt and Nubia : Schimper, Kotschy.
Abyssinia, &c. : Schimper.
Algiers : Bové.
Mauritius and Bourbon : Sieber.
Madagascar : ex Lindley.
St. Helena : Cuming.
Madeira : Lippold.
Azores : Guthneck.

4. NORTH AMERICAN PLANTS.

Arctic Regions : Sir W. Hooker (Franklin's Polar Expedition).
British Columbia and Canada : D. Douglas, Drummond.
United States : About 2,000 species from Nuttall ;
 Torrey and Gray, Frank, Freedly, Rugel, Dr. C. W. Short, Sir W. Hooker, Dr. Greville, Hartweg, Douglas and Drummond, Dr. Greville, Geyer, C. J. Moser.
 Asa Gray's *Gramineae et Cyperaceae*, 2 vols. 1834-5.
Mexico and Guatemala : Hartweg, Schiede, Deppe,

Berlandier, Galeotti, Jurgensen, G. Andrieux, Mocino, Lesse, Parkinson, etc.

West Indies : Sieber (Trinidad), Jaeger (S. Domingo), Poeppig, Hartweg, Mac Nab (Jamaica).

5. SOUTH AMERICAN PLANTS.

Guiana : Sir R. Schomburgk.

Surinam : Hostman.

Colombia and Ecuador : Hartweg.

Venezuela : Sir R. Porter, Linden, Funcke et Schlim, 1845.

Brazil : Tweedie (Buenos Ayres), Poeppig, King, Spruce, Blanchet (Bahia), Gardner (4,000 species), P. Claussen, Luschnath, Riedel, Vauthier.

Argentine Republic : Tweedie, Kastalsky.

Bolivia : Pentland, Kelly.

Chili and Peru : Mathews (2,000 species, being the set he reserved for himself), Poeppig, Cumming, Gillies, Bridges, Ruiz and Pavon.

The South American collection is a very large and valuable one. The plants of Ruiz and Pavon and of Dr. Gillies were obtained at the sale of Lambert's Herbarium.

6. AUSTRALIAN AND POLYNESIAN PLANTS.

Australia : Fraser, Anderson, Allan Cunningham, Sieber, &c. About 1,200 from the Swan River collected by Drummond, and a large number from Van Diemen's Land collected by Gunn.

New Zealand : R. Cunningham, Edgerley.

Pacific Islands : D. Douglas' plants from the Sandwich Islands and some collected by Mertens, Kastalsky, &c.

Recently Mrs. Fielding has given to the Herbarium her unpublished drawings as well as those published in Fielding's *Sertum Plantarum*, so that about 360 drawings made by Mrs. Fielding from plants in the Herbarium are now in the Library.

The Fielding Herbarium has been made the General Herbarium of the University by the incorporation into it, at different times, of various collections of plants. Among the older of these additions may be specially mentioned a number of plants from Siberia contributed, during the Professorship of Dr. Humphrey Sibthorp, by Hebenstreit; a collection of plants from the East given by Lord Macartney; about 1,100 specimens from the United States, 1,900 from Switzerland, and 200 from Spain, given by Dr. Daubigny; and a few Hong-Kong plants from Capt. Champion. The collection has also been augmented by Bourgeau's plants from the Canaries; Boyer's Mauritius and Madagascar plants; North-Western American specimens collected by Capt. Belcher; plants of the United States collected by Chapman (Florida) and C. J. Buckley (Alabama); Lindheimer's and Charles Wright's Texan plants; Fendler's and Botteri's Mexican plants; Martius' specimens from Brazil; Douglas' and Scouler's plants from Juan Fernandez; Fendler's Venezuelan plants; and Dr. Hooker's plants from Van Diemen's Land; a large number of plants from India collected by Roxburgh; Thunberg's Cape Plants; Dr. Carey's plants from Madras; Mr. Richard Oldham's from Formosa and the Cape; Sir Walter Trevelyan's plants from the Ionian Islands; plants collected in Nubia by Letourneux; by F. W. Burbidge in Borneo; by Milligan in Tasmania; by Riddell from New Orleans; by M. Cosson and Prof. Moseley in Morocco; in the Falkland Islands by Sir J. D. Hooker; also

Griffith's East Indian plants, Jameson's Quito (Andes) plants; Calvert's and Zohrab's plants from the Orient; plants from Persia, Cosson; from Auckland, Thomas Lawson; from Australia, Capt. Baudin; from Illinois, Patterson; from Brazil, Glocker; from South America, Pohl; from Venezuela, Bayley; from Tropical South Africa, Baines; from the Orange Free State, Hutton; China, Millet; Australia, Baron Ferdinand von Mueller; Viti, Dr. Seemann. Also plants from the Herbarium of Mr. T. Moore of Chelsea, and G. McCarthy's Flora Caroliniana.

Through the kindness of James Cholmeley Russell, Esq., the Herbarium which belonged to Mr. Wilson Saunders was presented to the University, and it has been incorporated into the General Collection. It contained about 20,000 specimens, and was especially valuable from its richness in European plants, in which the Fielding Herbarium was rather deficient. Among the plants from Europe included in the Wilson Saunders' Collection may be mentioned the sets of Neapolitan, Sardinian and Sicilian plants issued by Huet de Pavillon and by Todaro; the Spanish sets sent out by Bourgeau; the Swedish plants of Ahlberg; the 'Iter Lusitanicum' of Welwitsch; the 'Flora Attica' of Heldreich; Orphanides' Greek plants; Becker's 'Plantae Wolgae'; Huguenin's North Italian and Austrian plants; Reichenbach's Flora Germ. Exsicc.; Wirtgen's Rhenish Plants; the 'Reliquae Mailleana'; Mathennet's Environs La Grave; Swiss Plants of his own collecting; Botteri's Dalmatian plants; and the set entitled 'The Flora Dalmatica.' It also contained Bourgeau's *Plantes D'Algerie*, *Plantae Lyciae*, and his plants from the Canary Islands.

Among the subsequent additions made to the Her-

barium may be mentioned Huter's, and Porta's and Rigo's Tyrolean plants; the 'Flora Bellunensis' of Prof. Caruel; the 'Flora Ingrica,' Bulgarian plants from Hayne; Norwegian plants from Blytt; Spruce's Plants from Ecuador; Fendler's Plants from Trinidad; plants from Uruguay sent out by Lorentz; Rocky Mountain plants collected by Parry; plants from the United States by H. Coultas and H. Munroe (Chicago); a large collection given by Spicer from Tasmania, and New Zealand plants from Kirk; a valuable set of Himalayan plants from Hooker and Thomson. Prof. Bayley Balfour, when Professor, presented a set of his Socotra plants.

More recently the following sets have been acquired by purchase:—Baenitz, Herbarium Europaeum; Schultz, Herbarium Normale; Reverchon, Plants of France and Spain; Tiselius, 'Potamogetones Suecici Exsiccati'; Seringe, Swiss Plants; Rehman Woloszczak, 'Flora Polonica'; Střibny, 'Flora Bulgarica'; Bornmueller, 'Iter Persico-Turcicum' and 'Plantae Anatoliae Orientalis'; Sintenis, 'Iter Orientale'; Sintenis et Bornmueller, 'Iter Turcicum'; Plantae Marlothianae from Western Africa; Reverchon's Plantes d'Algérie; F. Karo's Plantae Dahuricae; Heldreich, Herbarium Graecum normale.

The collection has also recently been augmented by the following, obtained by gift or exchange: Kerner's Flora Austro-Hungarica; Spanish, Italian, Swiss, and Austrian plants by the Curator; Macedonian plants from Abd-ur Rahman Nadji; European, chiefly Spanish and French, specimens from A. Lomax; Asiatic plants collected by Heldreich; American plants from Mr. H. E. Garnsey; Colorado plants from Mrs. Cusack; Australian plants from the Bishop of Grafton and Armidale through Dr. E. B. Tylor; Canadian Plants from Prof. J. Fowler;

European plants from the herbarium of the late Mr. H. Boswell; the herbarium of the late T. B. Cartwright, Esq., presented by W. C. Cartwright, Esq., of Aynhoc Park, consisting of about 3,000 plants from Europe, Polynsia, West Indies, Canada, and the United States.

The General Herbarium is now kept in cases which occupy two rooms on the first floor, and three rooms on the second floor, of the Herbarium building. The specimens are numbered and arranged in genera according to the sequence adopted in Durand's Index to Bentham and Hooker's *Genera Plantarum*.

The European plants, in which the Herbarium is now very rich, are placed in blue paper-covers and arranged, as far as possible, according to the sequence adopted by Nyman in his *Conspectus Florae Europaeae*: the plants of Asia are placed in pink, the African in orange, the American in green, and the Australian and Oceanian in yellow-coloured paper-covers.

III. BRITISH HERBARIUM.

Professor Lawson commenced a Herbarium of British plants on large-sized sheets of paper, to which Messrs. J. G. Baker, W. T. Thiselton Dyer, H. C. Watson, and other contemporaneous botanists have contributed specimens.

During the interregnum which occurred after the vacation of the Chair of Botany by Prof. Lawson, a considerable number of plants, principally from the collection of Mr. Baxter, were incorporated with the British Herbarium. Among these were Bloxam's Brambles; a large number of plants from Rev. S. Simp-

son; a collection of Mints from the Rev. K. Trimmer; Dr. Ayres's set of plants collected near Thame; various specimens from the Sherardian Herbarium; and plants collected by Mr. Tatham, Rev. W. T. Bree, J. Brewer, Dr. Greville, J. Stock, W. Baxter, Rev. G. E. Smith, &c. During his Professorship Dr. Bayley Balfour presented a herbarium of 600 plants collected by him round Edinburgh.

To this collection there have been recently added by purchase the sets of Rubi issued by Rev. W. M. Rogers, Revs. E. F. and W. R. Linton, and Rev. R. Murray; the set of Willows issued by Rev. E. F. Linton; the Hieracia sent out by Revs. W. R. and E. F. Linton; and the British herbarium of the late Mr. H. Boswell.

A considerable number of plants collected by Mrs. Westwood were presented by the late Prof. Westwood and Miss Swann; and Mr. H. E. Garnsey of Magdalen College has also given a large number of specimens.

The collection is now kept in two large cabinets in the Room No. 3. It is arranged according to the last edition of the London Catalogue of British Plants.

IV. THE CRYPTOGAMIC HERBARIUM.

The Vascular Cryptogams are contained in Room No. 5; they have been largely drawn from the collections already named, but include also such well-known sets as the following: Seemann, Fiji; Jenman, Jamaica; Appun, British Guiana; Whitmee, Samoa.

The Mosses and Liverworts are kept in cabinets in Room No. 6, forming a good collection, named and arranged by the late Mr. H. Boswell, M.A. In addition to the collection contained in the cabinets may be

mentioned the Mosses collected in Captain Sir John Franklin's Arctic Expedition; the Musci Alleghanenses by W. S. Sullivant, 1845; the Musci Pyrenaici of Spruce, 1847; the Musci Scotici and Musci Americani of Drummond; the Hepaticae Scandinavicae of Lindberg and Lackström; the Genera Muscorum of Husnot: to these has now been added (by purchase) the important collection of Mosses and Liverworts made by the late Mr. H. Boswell, which includes a number of British Mosses which were sent as voucher specimens to the Botanical Record Club.

The Algae, Lichens, and Fungi are contained in Rooms Nos. 4 and 5, and are not yet arranged in systematic order, being kept in their original sets. The collection includes the Mycotheca Universalis of F. de Thuemen; the Phykotheka Universalis of Hauck et Richter; the Hutzpilze of G. Herpell, 1885; Herb. Vivum Mycologicum sistens Fungorum of J. F. Klotzsch, 1832; Stirpes Crypt. Oxon. by W. Baxter, 1825; British Fungi by Rev. M. J. Berkeley, 1836; Characeae Britannicae Exsicc., H. J. Groves, purchased in 1892; Algae Britannicae rariores Exsicc., by E. M. Holmes (purchased); British Algae presented by Frances R. Carr; British Algae presented by Mrs. Gray, of the British Museum; Algae Floridanae, Curtiss; a set of Mary Wyatt's Algae Danmonienses, presented by the University of Cambridge, through Prof. Marshall Ward: Bishop Lipscombe's collection of Lichens; 'Lichenes Britannici,' and a considerable number from Sir J. Hooker.

AN ACCOUNT
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PART II

BY

S. H. VINES, M.A., F.R.S.

Sherardian Professor of Botany

AND

G. CLARIDGE DRUCE, M.A.

LL.D. (St. Andrews)

Fielding Curator

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PART II.

It has become necessary to supplement the 'Account of the Herbarium of the University of Oxford', published in 1897, with a second part giving a record of what has been done since that date, and bringing together information which is scattered through the annual reports of the Fielding Curator. Paginal references are made to the first part of the 'Account', with which this part is paged in continuation.

I. THE SPECIAL COLLECTIONS.

A great deal has been done in thoroughly investigating and finally arranging these old historical collections with the effect of making them accessible.

2. (p. 6.) THE BOBART HORTUS SICCUS, now contained in sixteen Solander cases, has been arranged in accordance with Bobart's *Historiae Naturalis Sciagraphia*, Oxon., 1720 (reprinted in the 'Morisonian Herbarium').

3. (p. 6.) THE MORISON HERBARIUM has been thoroughly overhauled, the plants identified as far as possible, and arranged in the order of Morison's *Plantarum Historiae Universalis Oxoniensis*, II (1680) and III (1699). A full descriptive account of the herbarium, with biographical sketches of Morison and the two Bobarts, and the early history of the Botanic Garden, was prepared by the Sherardian Professor and the Fielding Curator, and published by the liberality of the Delegates of the Clarendon Press, with the title 'An Account of the Morisonian Herbarium', 1914.

4. (p. 7.) THE HERBARIUM OF CHARLES DU BOIS. Considerable progress has been made with the arrangement and identification of the specimens of this large collection from all parts of the world. They are now sorted into their genera, in the sequence adopted in Durand's *Index Generum Phanerogamorum*. A number of them have been specifically identified, more particularly East Indian species, of which there are many, thanks to the kind help of Mr. J. S. Gamble, F.R.S., of Magdalen College, but there is still much to be done in determining these historic plants. The herbarium was given to Oxford by the East India Company towards the end of the eighteenth century. It is now contained in seven cases.

5. (p. 8.) THE HERBARIUM OF WILLIAM SHERARD. A beginning has been made with the identification and arrangement of this large collection, and has already led to the discovery of interesting specimens contributed by J. Bauhin (*Lecanora atra*), Haller, Boecone, and Celsius.

6. (p. 9.) THE HERBARIUM OF DILLENIUS. This has been completely overhauled and rearranged. A full account of it, with correspondence, diaries, &c., was prepared by the Curator and published, with an introduction by the Sherardian Professor, by the Delegates of the Clarendon Press in 1907, with the title 'The Dillenian Herbaria'. The volume includes the plants of Dillenius's edition of Ray's *Synopsis Methodica Stirpium Britannicarum*, 1724; those of his *Hortus Elthamensis*, 1732; and those of his *Historia Muscorum*, 1741.

7. (p. 10.) THE HERBARIUM OF JOHN SIBTHORP. This is of special interest as containing the plants upon which the great *Flora Graeca* was based. The arrangement of the specimens and the revision of the nomenclature

are now almost completed. It is hoped to publish a volume on Sibthorp and his herbarium corresponding to those on Morison and Dillenius already issued, which would be useful to all who are interested in the flora of Greece. Valuable help has been kindly given by Mr. C. C. Lacaïta, F.L.S., in the determination of critical specimens.

Expert assistance in determining the specimens of these ancient herbaria has been most kindly afforded by the following Botanists:—

At the Royal Herbarium, Kew: Sir David Prain, F.R.S., the Director; J. G. Baker, F.R.S.; N. E. Brown; the late C. B. Clarke, F.R.S.; W. G. Craib; J. S. Gamble, F.R.S.; J. Hutchinson; the late G. Masee; O. Stapf, F.R.S.; W. B. Turrill.

At the Department of Botany, British Museum (Nat. Hist.): Dr. Rendle, F.R.S., the Keeper; E. G. Baker; W. Fawcett.

The late E. L. Batters; Mons. G. Beauverd (Geneva); A. Bennett; Cedric Bucknall; H. N. Dixon; Prof. O. V. Darbishire; S. T. Dunn; J. Groves; Prof. Augustine Henry; A. S. Hitchcock (New York); E. M. Holmes; W. Ingham; C. C. Lacaïta; Prof. H. Lecomte (Paris); Prof. C. Lindman (Stockholm); S. MacVicar; J. H. Maiden, F.R.S. (Director of the Botanical Garden, Sydney, N.S.W.); W. H. Pearson; Prof. J. Percival; C. V. Piper; C. E. Salmon; Dr. A. Thellung (Zurich); J. A. Wheldon; F. Buchanan White; J. W. White.

II. THE GENERAL COLLECTION.

I. (p. 11.) THE FIELDING HERBARIUM, which is the working herbarium, has received important additions, all

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of which have been, or are in process of being, incorporated in it. It is now in the front rank for the completeness of its collection of European plants, which has been the main object in view. The following is a condensed list of the chief additions.

Purchased :—

Baenitz, *Herbarium Dendrologicum* (263) and *Herb. Europaeum* (400): *Herb. Americanum*.

Billot, *Flora Galliae et Germaniae Exsiccata* (about 4,800)

Bornmüller, *Iter Syriacum*.

Boyd, Miss, plants from New Zealand.

Clements, F. E. and E. S., *Herbarium Formationum Coloradensium* (688).

Fiori, Beguinot, and Pampanini, *Flora Italica* (2,200).

Heldreich, *Herbarium Normale* (200).

Koehne, *Herbarium Dendrologicum* (421).

Marret, *Exsiccata de la Flore du Valais* (500).

Schultz-Dörfler, *Herbarium Normale* (2,000).

Thompson, H. S., from Mont Cenis (125).

Presented, or acquired by Exchange :—

1. **European.** Presented by the Royal Botanical Gardens, Kew, from the Churchill herbarium (3,000).

C. E. Johnstone (200).

Austria-Hungary : Dr. A. von Degen ; Dr. K. Domin (Bohemia, 40) : Kerner's *Flora Austro-Hungarica* (continued) ; J. Freyn ; the Hon. N. C. Rothschild.

Denmark : C. H. Ostenfeld.

Riviera : A. Voigt.

Scandinavia : Dr. C. Lindman (700).

Switzerland : Professor Vines.

2. **Asiatic.**

Russia : Miss Czaplicka (Yenisei, 47).

Persia : Rev. Napier Malcolm (90).

India : Professor Sir William Schlich, F.R.S. (4,500); J. F. Duthie; the late M. P. Edgeworth (presented by the Indian Institute), with about 50 specimens from Tibet (Jumyungsche rigjhin Lama).

Burma : C. Gilbert Rogers.

China : the late Professor T. H. Bullock.

3. **African** : Dr. Bruno Tavaro Carreiro (Azores, 100).
Sir W. Schlich, F.R.S. (Sudan, 53).4. **North American** : Dr. N. L. Britton, New York Botanic Garden (450); from the Gray Herbarium, Harvard University, *Plantae Exsiccatae Grayanae* (300).

Canada : collected by Lady A. Russell, presented by Capt. Russell.

Arctic : C. Godfrey (Davis Straits).

6. **Australian.**

Prof. I. Bayley Balfour, F.R.S. (W. Australian Droseras, 24); A. Davenport: J. H. Maiden, F.R.S. (Acacias, 44; Eucalyptus, 90; Gramina, 59; Gymnosperms, 11); Dr. E. J. Salisbury (82).

General collections have been contributed by—

The Fielding Curator, plants collected during his travels in various parts of the world; F. A. Bellamy, from Teneriffe and Egypt; J. C. Gawthorn, 'Sherard's Herbal', an old book of dried plants, authenticity doubtful; Miss Thomson, plants from India, America, &c., part of the herbarium of her uncle, Dr. Thomas Thomson, the Indian botanist and fellow traveller of Sir J. D. Hooker.

III. (p. 18.) THE BRITISH HERBARIUM.

The additions by purchase consist only of Linton's *Hieracia* (75) and *Salices* (29).

Those presented are chiefly the following:—

Charles Bailey, Esq., M.Sc., a valuable set, over 2,000.

The late Rev. D. O. Adams (*Rubi*).

The Rev. Prebendary Sadler Gale, plants collected by, presented by Miss Cicely Briggs.

The Rev. C. Gaunt, plants from Sussex; Miss Hunt; C. E. Johnstone; Rev. E. F. Linton, duplicates from Boswell Syme's herbarium; J. Little; Rev. Donald Matheson; Miss Rusher, from Banbury; C. E. Salmon; Miss Thomson; Dr. N. Tyacke, presented by the Chichester Museum Committee; J. Walter White.

Supplement to Smith and Sowerby's English Botany. Some of the type-specimens and a number of the drawings (by J. de Carle Sowerby and J. W. Salter) for the fifth unfinished volume, together with interesting letters relating thereto (1845-65), are preserved in a lock-up Solander case.

IV. (p. 19.) THE CRYPTOGAMIC HERBARIUM.

The additions are—

Purchased:—

Groves, *Characeae Britannicae* (contd.); Holmes, *Algae Brit. Rariores* (contd.); Curtiss, *Algae Floridanae* (contd.).

Hartley Smith, British Agarics (193); Pearson, British *Hepaticae* (100); Cryptogams in Clements's *Herb. Form. Coloradensium*; Rosenstock, South American Ferns (200).

Presented :—R. Sims's *Musci*, by Miss Acland ; Kirk's Warwickshire Mosses, by the Rev. C. F. Thornehill ; Rev. Canon Bullock-Webster, British *Characeae* ; Professor Vines, Darjeeling Ferns (Jeffrey) ; the late Bishop Mitchinson, Master of Pembroke College, Ferns from the West Indies ; Mrs. Arthur Butler, the late M. P. Edgeworth's Indian Ferns.

It is necessary to point out that the existing accommodation for the housing of the Herbarium of the University has become inadequate : the building is too small and is ill-adapted for the purpose. A larger and more suitable building is urgently required to contain not only the Herbarium, but also the very valuable and rapidly increasing Botanical Library.

PUBLICATIONS.

In addition to the volumes on the herbaria of Morison and of Dillenius, already mentioned, the Fielding Curator has written the following works, less directly connected with the Herbarium, which have been published by the Clarendon Press: *The Flora of Berkshire*, 1897, and *The List of British Plants*, 1908. He has also written a *Flora of Buckinghamshire* and a *Flora of Northamptonshire*, the publication of which has been delayed by the War, as also a second edition of his *Flora of Oxfordshire*.

Considerable progress has also been made with the preparation of a work on Professor J. Sibthorp and the plants of the *Flora Graeca*.

INDEX TO THE HERBARIUM.

The attempt is here made, for the first time, to give a list containing, as nearly as possible, the names of all

who have been contributors, directly or indirectly, to the various herbaria herein mentioned, including the names of the actual collectors of sets of plants that have been purchased or contributed. The list gives a good idea of the contents of the Herbarium, and will therefore be of service to any desirous of making use of it.

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OTHER HORTI SICCI IN OXFORD

It is, perhaps, not inappropriate to include here some account of the ancient collections of dried plants preserved elsewhere in Oxford.

MERTON COLLEGE.

In the Library there are (1) two vellum folios (45. B. 21) of 246 pages to which plants are attached, with Latin, French, and Arabic names, inscribed—'Dedit Robertus Huntingdon A.M., huius Collegii Socius, A. D. 1680.'

The plants were doubtless collected in Asia Minor, during the years that Huntingdon spent at Aleppo. He sent plants and seeds to Morison and to Bobart, which are acknowledged in the *Plantarum Historia Universalis Oxoniensis* and are frequently mentioned by Ray in the *Catalogus Stirpium Orientalium Rariorum* appended to his *Stirpium Europaearum extra Britannias nascentium Sylloge*, 1694.

(2) A large vellum folio labelled *Herbarium Vivum*, inscribed 'Dni. Caroli Willughby M.D. et Coll. Socii quod Patavii collectum a se digestumque in Collegii sui Bibliotheca referri voluit. Cal: Dec. 1673'. (Press-mark 45. B. 23.)

(3) A large folio labelled *Hortus Siccus*, containing wild and cultivated plants, unlocalized. A comparatively modern label inside states that the specimens are arranged 'according to the system of Caspar Bauhin'. (Press-mark 45. B. 20.)

WADHAM COLLEGE.

The Library contains two herbaria bequeathed by Richard Warner, of Woodford, Essex, together with many

valuable botanical books, among which is a copy of Warner's *Plantae Woodfordienses*, 1771, with the author's notes.

1. *Herbarium officinale*, a large folio bound in half-vellum, in which is written, but not in Warner's hand—'Richard Warner, 1770, *Catalogus Plantarum officinalium secundum Tabulas Cognationis et Affinitatis dispositarum.*' The specimens are unlocalized and no authorities are quoted; among them are *Xanthium Strumarium* and *Cuscuta europaea*.

2. *Specimina Plantarum*, two large folio volumes bound in rough leather. Vol. i, labelled 'R. Warner, 1750', contains 300 small specimens of British plants without names or localities; vol. ii is empty.

The more important books are Morison *Historia*, Ray *Historia*, Dillenius *Historia Muscorum*, Plukenet *Phytographia*, Miller *Gardener's Dictionary*, 1771, J. Bauhin (Chabraeus) *Historia*, Tournefort *Institutiones Rei Herbariae*, Burmann *Plantae Africanæ Rariores*, Dodonæus *Historiæ Stirpium Pemptades VI*, *Hortus Malabaricus*, Scheuchzer *Itineris Alpini Descriptio*.

The interest that Mr. Warner took in the study of Botany he showed, not only by the above bequest, but also by a further bequest of money, as set out in the following extract from his will:

Extract of Will of Richard Warner, Esq., of Woodford in the County of Essex, 1775.

I also give to the Warden and Fellows of the said College (Wadham) the sum of three hundred pounds in trust to be laid out in Government or other securities the interest thereof yearly to be given as an Exhibition to a member of the said College as an encouragement for his study and proficiency in Botany. In order to which my will is that all my books before bequeathed which have

relation to the study of Botany or Natural History together with all the drawings and prints relating to the same he the said Exhibitioner have free access to and the use of in such manner as to the Warden and Fellows of the said College shall seem proper. And my will is that the said Exhibitioner shall have been a member of the said College one year at least before his election thereto that he be nominated and elected by the Warden of the said College for the time being and that he shall enjoy the said Exhibition for seven years and no longer provided he shall continue so long a member of the said College and have resided there at least eight months in the year and that he shall receive the said Exhibition yearly after having produced to the Professor of Botany of the University of Oxford for the time being fifty specimens of plants yearly different from each other and from those of the preceding year and at the same time produce a collection of specimens of plants dried and preserved as a Hortus Siccus to be approved by the Professor of Botany before mentioned and passed examination by the said Professor of Botany of the University of Oxford for the time being and having received a certificate from him that he has made a sufficient progress in the said science.

A true extract.

JOHN WILLS,
Warden of Wadham.

THE BODLEIAN LIBRARY.

Certain volumes of dried plants are preserved here which came into the possession of the Library from the Ashmolean Museum of which at some time they formed part.¹

1. *Edward Morgan's Hortus Siccus*. This consists of three large folio volumes each containing about 160 pages of stout paper. It is thus described in Lloyd's Catalogue, no. 6547: 'Hortus siccus sive Collectio Plantarum ab

¹ See *Bodl. Quart. Record*, vol. ii, no. 21, April 1919.

ipso Edwardo Morgano facta ordine alphabetico, bis mille circiter Plantarum species exhibens: voll. tribus.' Numbered in Ashmole MSS. 1797-9. In 1845 the collection was in the Library of the Botanic Garden: it seems to have been begun in 1672, for on the first page are the words 'first great booke 72'.

Prefixed to the first volume is the catalogue of six narrow leaves: on p. 1 is written 'Cat. Tom. I. [16]82 8ber 20': on p. 12 are the names of some 'Plants found in North Wales'. Inserted at the end of the vol., on p. 159, is a letter from Thomas Thornes to 'Edward Morgan living att Bodesclen' offering anything in Leweny [Llewenny] Garden, with a list of plants offered and wanted; and on p. 160 is a short letter from Fridrick von Henrich Dorff 'to Edward Morgan at Bod Skallan': on this page the total number of the plants in the three vols. is given as 2,474.

The collection consists of unlocalized plants. Many of them are certainly native: one, 'Cardamine minus Oxford', is *C. impatiens* L. from the Botanic Garden: those on p. 12, said to be from North Wales, include 'Acetosa cochleariae folio' (*Oxyria*); 'Caryophyllata nutans' (*Geum rivale*); 'Asphodelus Lancastriensis' (*Narthecium*); 'Coronopus marit. platyphilla' is a broad-leaved form of *Plantago Coronopus*; *Erica baccifera* (*Empetrum*); *Cotyledon hirsuta* (*Saxifraga stellaris*). Among other specimens of interest are one of *Crataegus Oxyacantha* var. *rosea*, the Red May, and 'Ulmus angustifolius' which is *U. Plotii*; also garden plants such as *Phlomis fruticosa*, *Digitalis ferruginea*, *Arum italicum*, *Asarum*, *Melia Azedarach*, *Lepidium* *Draba*.

Edward Morgan who formed this collection was probably the same Edward Morgan who had a well-

known garden at Westminster, and is mentioned by Evelyn in his Diary (1658), by Morison in his *Plantarum Umbelliferarum Distributio Nova* (1672), pp. 32 and 61, by Johnson in his *Mercurius Botanicus*, ii (1641), whom he accompanied into Wales, and by Aiton in *Hort. Kew.* ii (1789). Mr. J. E. Griffith, an eminent Welsh antiquary, suggests that he was probably the son of Edward Morgan, of Golden Grove, near Rhuddlân, who was a bencher of the Middle Temple in 1597 and died in 1611.

Bodesclen is about a mile from Llandudno, towards Colwyn Bâ, and is mentioned in Johnson's *Mercurius Botanicus*.

2. A folio volume, with clasps (Ashmole MSS. 1465), described as '*Hortus Siccus seu Liber Plantarum et Florum (quadringerorum fere) chartaceis agglutinatorum foliis cum nominibus subscriptis, ff. 3-160*'. The handwriting appears to be that of a foreigner.

It was formerly (Old Cat. 7528) ascribed to Edward Morgan, but is evidently of earlier date: the plants were probably collected by or for the Tradescants.

The specimens are both wild and cultivated; they are in excellent condition, still adhering to the sheets, and have Latin names, but are unlocalized. Among them are '*Carthamus officinalis*' = *C. tinctoria* L.; '*Perfoliata*' = *Cerithe*; and '*Oenanthe palustris*' = *Oe. fluviatilis*. A few authorities are cited, such as Tabernaemontanus, Lobel, and Gerard.

On f. 2a is a recipe for glue to fasten plants on to paper: it is said to be in Ashmole's hand (Black's Cat. of Ashmole MSS., p. 1271, 1845).

3. *D. G. Wheleri Hortus Siccus*. This consists of four folio volumes bound in calf, containing respectively 80, 114, 90, and 104 pages. (Ashmole MSS., 1800-3.)

At the beginning of vol. i is fixed the back of a letter thus addressed to the author—'To the Rev. Sir Geo. Wheler at his house in Channel Row in Westminster, London.'

The specimens have only Latin names, and, though unlocalized, many certainly came from Asia Minor. One of them, '*Abies montis Olympici Asiatici*', is from the Bithynian or Mysian Olympus; other characteristic plants are *Origanum smyrnaeum*, *Aristolochia attica*, *Salvia pomifera*, and *Lathyrus Ochrus*.

Wheler was a man of note. Born at Bréda in 1650, he entered Lincoln College as a gentleman commoner, but went down without a degree in order to travel. In 1675-6 he spent a year travelling in Greece and Asia Minor with Dr. Spon, of Lyons. The journey was described in an important work published in 1682, '*A Journey into Greece*', six books folio. In this work, though it is mainly devoted to antiquities, several hundred plants are enumerated, and among those that are figured is *Hypericum calycinum*, which he introduced into Britain. A point of special interest is that his itinerary—Ionian Islands, Constantinople, Brusa, Smyrna, Athens, Corinth—is very much the same as that followed by John Sibthorp a century later. He was knighted in 1683, and 'having presented to his Mother the University of Oxford divers pieces of antiquity collected in his travels, the members in full convocation conferred on him the degree of M.A.' the same year. He was then admitted to holy orders, and died at Durham in 1724. He was a correspondent of Morison and Bobart, and his name is frequently mentioned in the *Plantarum Historia Universalis Oxoniensis*.

4. A volume of plants collected in Barbadoes. The

specimens, which are in poor condition, were mounted by Baxter in 1873. (MSS. Rawlinson C. 403.)

5. A collection from Holland (?): early 17th cent. (MSS. Arch. Seld. B. 3.) Possibly may have belonged to the Tradescants: of little interest.

6. Collections by Dr. Wm. Howlet; England; 17th cent. (MSS. Add. D. 94-7.)

7. Two collections from Oxford, early 17th cent., conjecturally attributed to Jacob Bobart. There is no means of identification beyond the handwriting on the labels, which may be Bobart's. Unlocalized plants of no particular interest. (MSS. Lat. misc. d. 26 and b. 11.)

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