

ORDER OF THE PROCEEDINGS

# MARWIN CELEBRATION

TELD AT CAMBRIDGE

JUNE 22—JUNE 2. 1909

WITH A SKETCH OF DARWIN'S LIFT

Christ's College Library Cambridge

The David Stanbury Collection 1998





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JUNE 22-JUNE 24,
1909

# WITH A SKETCH OF DARWIN'S LIFE

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Cambridge Printed at the University Press 1909



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# PREFACE

A T a meeting of the Council of the Senate held on Monday, December 2, 2007, a Committee was appointed to consider what steps should be taken to celebrate the Centensary of the brild of Charles Darwin. On February 13, 1008, it was agreed by Grace of the Senate to held a Darwin the Committee was increased in size and constituted as follows: The Vice-Charleston in the council of the year topo, and in the following month the Committee was increased in size and constituted as follows: The Vice-Charleston (Edw. F. S. Roberts, Master of Gowellia and Calina College, the Master of Penhecke College (Rev. Dr. A. J. Masson), the Master of Christic College, Or Penho, the Registrary of the University (Mr. J. V. Catsk), Professor Six Robert Ball, Professor Baston, Dr Bonney, Mr Darmford, Dr Fetcher, Professor Forsyth, Dr Gadall, Professor Meron, Hughes, Mr. A. Hutchinson, Professor Langley, Professor Larron, Mr. A. Hutchinson, Professor Larron, Pro

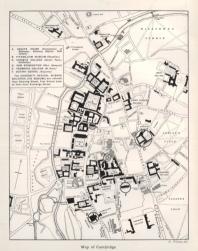
By Grace of the Senate, March 4, 1909, it was agreed to contribute the sum of Δ500 from the University Chest towards the expense of the Celebration; and at a subsequent date the Vice-Chancellor (Rev. A. J. Mason, Master of Pembroke College) announced to the Senate that an anonymous benefactor had generously offered to contribute an additional Δ500.

In the preparation of the Sketch of Mr Darwin's life, which follows the lines of the Epitome included in the Memorial volume of essays, *Darwin and Modern Science*, recently published by the Syndics of the University Press, we

have recived considerable assistance from Mr Francia Davrini, to whom we offer our could thanks. The portraits reproduced as the Fountaire can also Plates II, IV, VI, and X are reproduced from plates originally published in Mres Letters of Charles Davrini. For the use of these we are indebted to Mr Francia Davrin, and to the coursety of Mr John Murray, For the boar of Plate V our thanks are due to Mr John Murray, by whom the illustration was first published in an edition of the Journal of Researches in 1500. Plate III is from a photograph taken by permission of the Master of Christ's College W Mesers Scott and Wilkinson of Candridge, Plate I is reproduced from a photograph in the pomession of Sir George Davrin, and Plates VII, VIII, IX are from original supplied by Mr Francia Davrin.

J. W. CLARK
A. C. SEWARD Darwin Celebration Committee.

Jave, 1909.



# UNIVERSITY OF CAMBRIDGE





### DARWIN COMMEMORATION

June 22-24, 1909

# PROGRAMME

#### TUESDAY, JUNE 22

8.30 to II p.m. Reception of Delegates and other invited Guests by the Chancellor of the University (Lord Rayleigh, O.M., F.R.S., Sc.D.) in the Fitzwilliam Museum.

By the kind permission of the Master and Fellows of Peterhouse the College Gardens will be accessible from the Museum.

[Evening dress, Academic robes, and Orders will be worn. (Members of the Senate will wear Hoods and Bands and Doctors will wear Scarlet.) L'habit sera de rigueur (pour les Universitaires costume Académique) et

Frack, Akademischer Ornat, und Orden.]

It is very important that invitation cards should be shown at the entrance to the Museum.

Delegates and other Guests who are not Resident Members of the Senate will be received by the Chancellor at the head of the Staircase. After being received Guests are requested to pass on into the Picture Galleries. The entrance to the Refreshment marquee and to the Grounds of Peterhouse is from the First Egyptian room on the ground-door.

In order to avoid confusion in calling carriages after the Reception, Guests are requested to see that on alighting from their carriages on arrival at the Fitzwilliam Museum they receive a numbered ticket from the Policeman on duty.

#### WEDNESDAY, IUNE 23

10.30 a.m. Presentation of Addresses by Delegates of Universities, Colleges, Academies, and Learned Societies in the Senate House.

> [Morning dress and Academic robes. (Members of the Senate will wear Hoods and Bands and Doctors will wear Scarlet.)

Costume de ville et costume Académique. Gehrock und Akademischer Ornat.]

(i) Address by the Chancellor.

(ii) Presentation of Delegates and Addresses.(iii) A few short speeches will be delivered.

# 2.30 to 3.45. Visits to Colleges.

4 to 6 p.m. Garden Party given by the Master and Fellows of Christ's College in the College grounds.

> [Morning dress and Academic robes. (Members of the Senate will wear Hoods and Bands and Doctors will wear Scarlet.)

Costume de ville et costume Académique.

The rooms occupied by Charles Darwin when an Undergraduate of Christ's College (First Court, Staircase G) will be open to Visitors during the afternoon of Wednesday, June 23, and during the morning and afternoon of Thursday, June 24.

## 7 p.m. Banquet in the New Examination Hall, the Museums.

[Evening dress, Academic robes, and Orders.

L'habit sera de rigueur (pour les Universitaires costume Académique) et décorations. Frack. Akademischer Ornat. und Orden.]

Frack, Akademischer Ornat, und Orden.]
[Entrance from Pembroke Street. Carriaces should be ordered to set down Guests

at the entrance to the Museums, Pembroke Street, and to take up Guests after the Pembroke College At Home at the College Gateway, Trumpington Street. Guests are requested to assemble at the New Examination Hall at 6.45 p.m.]

10 to 12 p.m. The Master and Fellows of Pembroke College At Home in the College Hall and Gardens.

[Entrance to Pembroke College from Trumpington Street.

Guests attending the Banquet can enter the College by the Gate in Pembroke Street.]

#### THURSDAY, JUNE 24

- II a.m. Honorary Degrees conferred in the Senate House.
- 12 noon. Rede Lecture delivered by Sir Archibald Geikie, Sc.D., President of the Royal Society of London: Subject, Darwin as Geologist.

[Morning dress and Academic robes. (Members of the Senate will wear Hoods and Bands and Doctors will wear Scarlet.) Costume de ville et costume Académique. Gebrock und Academischer Ornat.]

3 to 5.30 p.m. Garden Party given by Mr William Eransuus Darvin, six George and Lady Darvin, Mr Francis Darvin and Miss Frances Darvin, Major and Mrs Leonard Darvin, Mr and Mrs Horace Darvin, Mr Stichfield, and Miss Darvin, in the Fellows' Garden, or, if wet, in the Hall and Cloisters of Trinity College, which have been kindly lent by the Master and Fellows.

[Morning dress. Costume de ville. Gebrock.]

(Entrance to the Garden from the Backs of the Colleges.)

#### Darwin Exhibition

During the Celebration there will be an Exhibition of portraits, books, and the objects of interest in connexion with Darwin, in the Old Library of Christ's College (Entrance from the First Court), The Exhibition will be open from 10 am. to 1 p.m. and from 2 p.m. to 5 p.m.

(Catalogues may be bought in the Exhibition Room.)

#### Charles Darwin's Library

This Library, which Mr Francis Darwin has generously transferred to the Botany School, Downing Street, may be seen on application at the Botany School at any time between 10 a.m. and 1 p.m., or between 2.30 p.m. and 5.30 p.m., during the Celebration. A few of the most interesting volumes will be displayed in the Botanical Museum.

## Geological Collection

The rock-specimens collected by Darwin during the voyage of the Beagle are exhibited in the Sedgwick Museum, Downing Street.

## University Library

The Librarian has arranged an Exhibition of MSS, and Books illustrating the progress of Scientific Study.

#### Enquiries

Enquiries should be addressed to the Honorary Secretaries, Darwin Celebration, The Botany School.

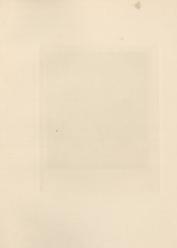
Professor Seward will be in his room at the Botany School, Downing Street, on Tuesday, June 22, between 2.30 and 5.30.

J. W. CLARK, M.A. | Honorary Secretaries, A. C. SEWARD, M.A. | Darwin Celebration.

June, 1909











Charles Diarrin V his sister Catherine Som a chall decreages the present of

#### A SKETCH OF DARWIN'S LIFE!

OLIALIES ROBERT DARWIN, born Feb. 12, at The Mount, Shrewshury (Plate 1), the house of his father, Dr Robert Waring Darwin (b. 1766, d. 1849), who was the son of Erasuns Darwin (b. 1741, d. 1802), Poet. Physician and Evolutionist. On the mother's side Charles Darwin was grandson of Josiah Wedgwood (b. 1730, d. 1795), the founder of the Etruria Protery Works, Stafforthine.

Charles Darwin retained a strong feeling of love and respect for his father's memory. His recollection of everything connected with him was peculiarly distinct, and he spoke of him frequently, generally prefacing an anecdote with some such phrase as "My father, who was the wisest man I ever knew."

"He was about 6 feet 2 inches in height, with broad shoulders, and very corpulent, so that he was the largest man whom I ever saw...His chief mental characteristics were his powers of observation and his sympathy, neither of which have I ever seen exceeded or even equalled." Darwin's Autholography.

The house is charmingly placed on a steep bank above the Severn. The terraced hank is traverned by a long walk leading from end to end it called "The Doctor's Walk." At one point in this walk grows a Spanish chestrut, the branches of which bend back parallel to themselves in a curious manner, and this was Dawwin's favourite tree as a boy where he and his sister Catherine (Plate II) had each their special seat.

1817 "At §§ years old I went to Mr Case's school." [A day-school at Shrees-bury kept by the Rev. G. Case, Minister of the Unitarian Chapel.] "By the time I went to this day-school my taste for natural history, and more especially for collecting, was well developed. I tried to make out the names of plants and collected all sorts of things, shells, seals, franks, coins, and

<sup>1</sup> The quotations are taken for the most part from Charles Darwin's Autobiography (Life and Letters of Charles Derwin, Vol. 1, Chapters 1 and 11), from the Pocket Diary, and from letters published in the Life and Letters or in Mere Letters of Charles Darwin.

@ The Complete Work of Charles Darwin Online

1809

1817

- minerals. The passion for collecting which leads a man to be a systematic naturalist, a virtuoso, or a miser, was very strong in me, and was clearly innate, as none of my sisters or brother ever had this taste."
- 1818 "I was at school at Shrewsbury under a great scholar, Dr Butler; I learnt absolutely nothing, except by amusing myself by reading and exceptionering in Chemistry."
- 1825 "As I was doing no good at school, my father wisely took me away at a rather earlier age than usual, and sent me (Oct. 1825) to Edinburgh University with my brother, where I stayed for two years."
- 1828 "As It was decided that I should be a clergyman, it was necessary that I should go to one of the English Universities and take a degree."
  - Began residence at Christ's College, Cambridge, in the Lent term, "Carolus Darwin admissus est pensionarius minor sub Mro Shaw." (Christ's College Admission Book.)

Christ's College was founded in 1505 by the Lady Margaret Beaufort, mother of Henry VII. Darwin's rooms are on the south side of the first court (Staircase G), above and to the right of the doorway shown in the illustration (Plate III).

- "During the three years which I spent at Cambridge my time was wasted, as far as the academical studies were concerned, as completely as at Edinburgh and at school."
- "In order to pass the B.A. Examination, it was...necessary to get up Paley's "Evidences of Christianity,' and his "Moral Philosophy"... The careful study of these works, without attempting to learn any part by rote, was the only part of the academical course which...,was of the least use to me in the education of my mind."
- "I have not as yet mentioned a circumstance which influenced my whole career more than any other. This was my friendship with Professor Henshow (Plate IV)...He keps open house once every week when all undergraduates and some older members of the University, who were attached to science, used to meet in the evening...Before long I became well acquainted with Henshow, and during the latter half of my time at Cambridge took long walks with him on most days; so that I was called by some of the doos the man who walks with Henshow."
- "As time passed on at Cambridge I became very intimate with Professor Henslow, and his kindness was unbounded; he continually asked me to his house, and allowed me to accompany him in his walks. He talked on all subjects, including his deep sense of religion, and was entirely open. I owe

....



Mr Darwin's rooms in Christ's College (Front Court, Staircase G, First floor)

Plate IV



John Stevens Henslow



more than I can express to this excellent man. His kindness was steady, when Captain FixRoy offered to give up part of his own cabin to any naturalist who would join the expedition in H.M.S. Bogot, Professor Henslow recommended me, so one who knew very liftle, but who, he thought, would work. I was strongly attached to natural history, and this attachment I owed, in large part, to him." C. Darwin in L. Jenyan Winneier of Henslow, 1852.

1831 Passed the examination for the B.A. degree in January and kept the two following terms.

"On returning bome [August] from my short geological tour in North Wales [with Professor Sedgwick]. I found a letter from Henslow, informing me that Captain FitzRoy was willing to give up part of his own cabin to any young man who would volunteer to go with him without pay as naturalist to the voyage of the Beagth.

Dec. 27. "Salled from England on our circumnavigation" in H.M.S. Beagle, a barque of 235 tons, carrying 6 guns, under Captain FitzRoy (Plate V).

"It shall be as a birthday for the rest of my life."

"The voyage of the Beagle has been by far the most important event in my life, and has determined my whole career."

"Everything about which I thought or read was made to bear directly on what I had seen or was likely to see; and this habit of mind was continued during the five years of the voyage. I feel sure that it was this training which has enabled me to do whatever I have done in science."

1836 Oct 4. "Reached Shrewsbury after absence of 5 years and 2 days." "You cannot imagine how gloriously delightful my first visit was at home; it was worth the banishment."

Dec. 13. Went to live at Cambridge (Fitzwilliam Street).

1837

"On my return bone [in the Bage] in the anams of 836 I immediately began to prepare my journal for publication, and there saw how many facts began to prepare my journal for publication, and there saw how many facts indicated the first note-look for facts in relation to the origin of upward, about which I had long referred, and never caused working for the next teventy year. Had been ground years (for more more of previous March on character of South American fossils, and species on Galapupos Archipelago. These facts origin (respectably lattery) of all my views."

On the question of when Darwin's mind was first turned towards Evolution, see Professor Judd in Darwin and Malaira Science (Cambridge, 1909), also the introduction to The Foundations of the Origin of Species. "On March 7, 1837, I took lodgings in [36] Great Marlborough Street in London, and remained there for nearly two years, until I was married."

\*\*Is October 1836, that is, filters months after I had begun my systematic enging I, Duppened to read for aumoments 'Malabon on Population,' and being well prepared to appreciate the struggle for existence which everywhere goes on from long-continued observation of the halists of animals variations would tend to be preserved, and unfavorable ones to be destroyed. The result of this would be the formation of now species. Here then I had at last got at theory by which to work; but I was so autions to avoid prejudice, that I determined not be some time to write even the briefest.

1839 Married at Maer (Staffordshire) to his cousin, Emma Wedgwood, b. 1808, d. 1896, daughter of Josiah Wedgwood. (Plate VI.)

Dec. 31. "Entered 12 Upper Gower Street" [now 110 Gower Street, London].

"If the character of my father's working life is to be understood, the conditions of ill-health, under which he worked, must be constantly borne in mind.... No one indeed, except my mother, knows the full amount of suffering he endured, or the full amount of his wonderful patience. For all the latter years of his life she never left him for a night; and her days were so planned that all his resting hours might be shared with her. She shielded him from every avoidable annovance, and omitted nothing that might save him trouble, or prevent him becoming overtired, or that might alleviate the many discomforts of his ill-health. I hesitate to speak thus freely of a thing so sacred as the life-long devotion which prompted all this constant and tender care. But it is, I repeat, a principal feature of his life, that for nearly forty years he never knew one day of the health of ordinary men, and that thus his life was one long struggle against the weariness and strain of sickness. And this cannot be told without speaking of the one condition which enabled him to bear the strain and fight out the struggle to the end." Francis Darwin in The Life and Letters.

Published Journal and Researches, being Vol. III. of the Narrative of the Surveying Voyage of H.M.S. Adventure and Beagle....

1842 "In June 1842 I first allowed myself the satisfaction of writing a very brief abstract of my [species] theory in pencil in 35 pages'; and this was <sup>1</sup> This MS, published under the tile? The Favadation of the Origin of Species, will be presented by the Syndies of the University Press to the Delegates attenting the Colebation.



M. Darwin







The Sandwalk at Down

enlarged during the summer of 1844 into one of 230 pages, which I had fairly copied out and still [1876] possess!"

Sept. 14. Settled at the village of Down in Kent. (Plate VII.) "My life goes on like clockwork, and I am fixed on the spot where I shall end it."

Darwin's house lies 18 miles from London, close to the village of Down, which stands in a solisary upland country, so or 600 feet above seal-evel.—a country with little natural beauty, but possening a certain charm in the shaws or strangling signs of wood, capping the chalty banks and looking down upon the quiet ploughed hands of the valleys. The vallage, of a few hunderd inhabitants, consists of three lifest stress sof vallage, of a few hunderd inhabitants, consists of three lifest stress sof values of the consistency of the consistency of the consistency of the consistency are addons seen, and where the names occurring in the old cluster's registers are still been to by villagers.

"Its chief merit is its extreme rurality. I think I was never in a more perfectly quiet country." (1843.)

The Sandwalk (Plate VIII) was planted by my father with a variety of reres, such as hard, adder, limb, horbitens, brich, privet, and degresol, and with a long line of hollies all down the exposed side. Here he took a certain manufeer of turns every day, and such to count them by mount of a hosp was core play-ground as children, and here we continually saw my father as he waded round. He liked to see what we were doing, and was cer ready to sympathine in any fan that was going on. With regard to the Sandwalk, with their listers, we such adaptive present the labels.

Adapted from Francis Darwin's Reminiscences in Life and Letters.

Publication of The Structure and Distribution of Coral Reefs; being Part I. of the Geology of the Voyage of the Besgle.

"I wish that some doubly rich millionaire would take it into his head to have borings made in some of the Pacific and Indian atolls, and bring home cores for slicing from a depth of 500 or 600 feet." C. Darwin, 1881.

home cores for slicing from a depth of 500 or 600 feet. C. Darwin, 1831.

"Though the 'doubly rich millionaire' has not been forthcoming, the energy, in England, of Professor Sollas, and in New South Wales of Professor Anderson Staurt, served to set on floot a project, which, aided at first by the British Association for the Advancement of Science, and afterwards taken up jointly by the Royal Society, the New South Wales

Government, and the Admiralty, has led to the most definite and conclusive

<sup>3</sup> A Volume containing both these Essays will be published by the Cambridge University

Press in June of this year.

LERATI

results...The verdict arrived at, after this most exhaustive study of a series of cores obtained from depths twice as great as that thought necessary by Darwin was as follows:—

"The whole of the cores are found to be built up of those organisms which are seen forming coral-recfs near the surface of the ocean—many of them evidently, is nits: and not the slightest indication could be detected, by chemical or microscopic means, which suggested the proximity of non-calcaroous rocks, even in the lowest portions brought up."

J. W. Judd in Darwin and Modern Science.

"I am very full of Darwin's new theory of Coral Islands, and have urged Whewell to make him read it at our next meeting. I must give up my volcanic crater theory for ever, though it cost me a pang at first, for it accounted for so much....Yet spite of all this, the whole theory is knocked on the head." Lyel, 1837.

"I never forget that almost everything which I have done in science I owe to the study of his [Sir Charles Lyell's] great works."

1844 Publication of Geological Observations on the Volcanic Islands visited during the Voyage of H.M.S. Beagle; being Part II. of the Geology of the Voyage of the Beagle.

1845 Publication of the Journal of Researches as a separate book.

1846 Publication of Geological Observations on South America; being Part III. of the Geology of the Voyage of the Bagle.

1851 Publication of a Monograph of the Fossil Lepadida and of a Monograph of the sub-class Cirripedia (Barnacles).

1853 Received one of the two Royal medals which are awarded by the Sovereign upon the recommendation of the Council of the Royal Society.

"Amongst my letters received this morning, I opened fart one from Colored Sables [Treasure of the Royal Society]; the content cortainly supprised me very much, but, though the letter was a sery bind one supprised me very much, but, though the letter was a sery bind one I then pened your, and such is the effect of swamth of contained, kindness from one that is leved, that the very same fact, rold as you sold kindness from one that is leved, that the very same fact, rold as you sold it made ne give with pleasure till my very least throbbed. Believe me, I shall not soon forget the pleasure of your letter. Such hearty, affectionate coincid." Letter to Poloker, 1832, C. [Pleas X], but ever we or will be coincid." Letter to Poloker, 1832, C. [Pleas X], but ever we or will be

1854 Publication of Monographs of the Balanidae and Verrucidae.

Plate IX



Charles Darwin, 1849



SirJoseph Hocker 1897.

"The value of the Cirripede monograph lies not merely in the fact that it is a very admirable piece of work, and constituted a great addition to positive knowledge, but still more in the circumstance that it was a piece of critical self-discipline, the effect of which manifested itself in everything your father worte afterwards." T. H. Huxdey to F. Darwin, 1887,

"One result was that he would never allow a depreciatory remark to pass unchallenged on the powerst class of scientifies workers, provided that their work was honest, and good of its kind. I have always regarded it as one of the finest traits in his character,—this generous appreciation of the hod-men of science, and of their labours...and it was monographing the Barnacles that brought it about. Ser Jr. D. Hooker to F. Darwin, 1857,

"Early in 1856 Lyell advised me to write out my views pretty fully, and I began at once to do so on a scale three or four times as extensive as that which was afterwards followed in my Origin of Species."

1858

1859

Joint paper by Charles Darwin and Alfred Russel Wallace "On the Tendency of Species to form Varieties; and on the perpetuation of Varieties and Species by Natural Means of Selection," communicated to the Linnean Society by Sir Charles Lyell and Sir Joseph Hooker. (Read July 1.)

"I was at first very unwilling to consent [to the communication of his MS. to the Society] as I thought Mr Wallace might consider my doing so unjustifiable, for I did not then know how generous and noble was his disposition."

Nov. 24. Publication of The Origin of Species (1250 copies).

"I never even built a castle in the air of such success as it has met with; I do not mean the sale, but the impression it has made on you (whom I have always looked at as chief judge) and Hooker and Huxley. The whole has infinitely exceeded my wildest hopes." From a letter to Lyell, 1859.

"I have received your kind note and the copy; I am infinitely pleased and proud at the appearance of my child....You are really too generous to me about the, to me, scandalously heavy corrections. Are you not acting unfairly towards yourself?" From a letter to Mr John Murray, 1850.

"The most potent instrument for the extension of the realm of natural knowledge which has come into men's hands, since the publication of Newton's 'Principia,' is Darwin's 'Origin of Species.'" Huxley, 1887.

"The oldest of all philosophies, that of Evolution, was bound hand and foot and cast into utter darkness during the millennium of theological scholasticism. But Darwin poured new life-blood into the ancient france; the bonds burst, and the revivified thought of ancient Greece has proved than any of the schemes which have been accepted by the credulity and welcomed by the superstition of seventy later generations of men." Huxley, 1887.

Dec. 26. Publication of Huxley's celebrated review of the Origin in the Times.

"Have you seen the splendid essay and notice of my book in the Times? I cannot avoid a strong suspicion that it is by Huxley....It will do grand service." C. Darwin to J. D. Hooker, 1859.

1860 Publication of the second edition of the Origin (3000 copies).

Publication of a Naturalist's Voyage.

June 28. Pitched battle over the Origin at the Oxford meeting of the

British Association. Defeat of the Bishop of Oxford by Huxley.

"On the whole...the supporters of Mr Darwin's views in 1860 were numerically extremely insignificant. There is not the slightest doubt that, if a general council of the Church segmentific had been hald at that time.

if a general council of the Church scientific had been held at that time, we should have been condemned by an overwhelming majority." Huxley, 1887.

1861 Publication of the third edition of the Origin (2000 copies).

1862 Publication of the book On the various contrivances by which Orchids are fertilised by Insects.

"Another favourite place was 'Orchis Bank,' above the quiet Gudham valley, where fly- and musk-orchids grew among the junipers, and Cephalanthera and Neottia under the beech boughs."

1864 Received the Copley Medal, the highest honour which the Royal Society can confer.

"Some old members of the Royal are quite shocked at my having the Copley."

That such a feeling existed is clear from the action of the Council in pointedly omitting from the grounds of their award the Arbory set forth in the Origin. That this bods could within five years of its publication be valued by the Royal Society merely as a "mass of chorartaion, etc., it striking evidence of the slow progress of Evolution. It may perhaps be said that 1870 is the date at which the current of scientific episions is sent to be definitely flowing in the direction of Evolution; and 1850 the time by which it had reached its full Volume. Mr Hudley wrote in 1850: "Those who have watched the progress of science within the last ten years will bear me out to the full, when I assert that there is no field of biological inquiry in which the influence of the Origin of Species is not traceable."

It is interesting to find that of the sixty scientific societies of which Darwin was an honorary member, only 15, or one quarter, elected him before 1870. As to the magnitude of the change in public opinion Mr Huxley wrote in 1887:

"The contrast between the present condition of public opinion upon the Darwinian question; between the estimation in which Darwinia's views are now held in the scientific world; between the acquiencence, of the theologians of the self-respecting order at the present day and the outbarst of antagonism on all sides in 185%-a, when the new theory respecting the origin of species first became known to the older generation to which I belong is so startling that, except for documentary evidence. I should be sometimes inclined to think nw memories dreams,"

1865 Read a paper before the Linnean Society "On the Movements and Habits of Climbing plants." (Published as a book in 1875.)

1866 Publication of the fourth edition of the Origin (1250 copies).

1867 Received the Prussian Order "Pour le Mérite."

1868 Publication of the Variation of Animals and

B Publication of the Variation of Animals and Plants under Domestication.

"About my book I will give you [Sir Joseph Hooker] a bit of advice. Skip the whole of Vol. r., except the last chapter (and that need only be skimmed) and skip largely in the 2nd volume; and then you will say it is a very good book."

1869 Publication of the fifth edition of the Origin.

1871 Publication of The Descent of Man.

"Although in the Origin of Species the derivation of any particular species is never discussed, yet I thought it best, in order that no honourable man should accuse me of concealing my views, to add that by the work in question 'light would be thrown on the origin of man and his history."

"Darwin's work in regard to the descent of man has not been surpassed; the more we immerse ourselves in the study of the structural relationships between apes and man, the more is our path illumined by the clear light radiating from him, and through his calm and deliberate investigation, based on a mass of material in the accumulation of which he has never had an equal. Darwin's fame will be bound up for all time with the unprejudiced investigation of the question of all questions, the descent of the human race." G. Schwalbe in Darwin and Modern Science.

1872 Publication of the sixth edition of the Origin

Publication of The Expression of the Emotions in Man and Animals.

1874 Publication of the second edition of The Descent of Man.

Publication of the second edition of The Structure and Distribution of

1875 Publication of Insectivorous Plants.

"My book on 'Insectivorous Plants' was published in July 1875—that is sixteen years after my first Ostervations. The delay in this case, as with all my other books, has been a great advantage to me; for a man after a long interval can criticise his own work, almost as well as if it were that of another ocessor."

Publication of the second edition of Variation of Animals and Plants.

Publication of The Movements and Habits of Climbing Plants as a separate book.

1876 Wrote Autobiographical Sketch (Life and Letters, Vol. 1. Chap. II.).
Publication of The Effects of Cross and Self-fertilisation.

"It is remarkable that this book, the result of eleven years of experimental work, owed its origin to a chance observation. My father had raised two beds of *Linaria usiqueris*—one set being the offspring of crossand the other of sulf-fertillation. These plants were grown for the sake of some observations on inheritance, and not with any view to cross-beeding, so the control of the control

1877 Publication of The Different Forms of Flowers on Plants of the same species.

"I do not suppose that I shall publish any more books....I cannot endure being idle, but heaven knows whether I am capable of any more good work."

"It may be that eventually many things will be viewed in a different light, but Darwin's investigations will always form the foundation of Floral Biology on which the future may continue to build." K. Goebel in *Darwin* and Modern Science.

1879 Publication of his biographical sketch of Erasmus Darwin as an introduction to E. Krause's Essay, 1882. 1880 Publication of The Power of Movement in Plants.

"Whether this masterly conception of the unity of what has hitherto seemed a chao's of unrelated pleasonnean will be sustained, time along with show. But no one can doubt the importance of what Mr Darwin has done, in showing that for the future the phenomena of plant movement can indeed must be studied from a single point of view," Sir William Thistoton-Dyer, 1882.

"It has always pleased me to exalt plants in the scale of organised beings."

1881 Publication of The Formation of Vegetable Mould, through the Action of Worms.

1882 Charles Darwin died at Down, April 19, and was buried in Westminster Abbey, April 26, in the north aisle of the Nave a few feet from the grave of Sir Isaac Newton.

"As for myself, I believe that I have acted rightly in steadily following and devoting my life to Science. I feel no remorse from having committed any great sin, but have often and often regretted that I have not done more direct good to my fellow creatures."

In 1835, Mr Huxley, referring to "the manifestation of public feelings on one obje in these remains, but throughout the critislest world." Gailed forth by the death of Charles Darwin, and—"The causes of this deep and wide conductor of smoothes are not far to seek. We had lost one of these rare conductor of smoothes are not far to seek. We had lost one of these rare advances of natural knowledge, For, whatever be the ultimate verdict of whatever when the conductor of natural knowledge, For, whatever be the ultimate verdict of whatever adambtarions or anticipations of his decritics may be found in the writings of his productions of his decritions may be found in the writings of his productions of the object for mainst that, since the publication and by reason of the publication, of the origins of your publication and by reason of the publication, of the sentence of limps Nature have been consolled, channel."



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