

National Cataloguing Unit for the Archives of Contemporary Scientists

Catalogue of the papers and correspondence of

EDMUND BRISCO FORD FRS

(1901 - 1988)

Compiled by Peter Harper and Timothy E. Powell

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LIST OF CONTEN	TS	Items	Page
GENERAL INTROD	UCTION		4
SECTION A	BIOGRAPHICAL	A.1 - A. 19	11
SECTION B	OXFORD	B.1 - B. 11	15
SECTION C	RESEARCH	C.1 - C.120	17
SECTION D	LECTURES AND PUBLICATIONS	D.1 - D. 43	30
SECTION E	VISITS AND CONFERENCES	E.1 - E. 8	35
SECTION F	CORRESPONDENCE	F.1 - F.117	37
INDEX OF CORRE	SPONDENTS		49

GENERAL INTRODUCTION

PROVENANCE

The papers were received via Mr P J Placito in October 1988.

OUTLINE OF THE CAREER OF E B FORD

Edmund Brisco ('Henry') Ford was born in Papcastle, Cumbria in 1901. His career was based entirely at Oxford University.

He was educated at Wadham College graduating Bachelor of Arts in the Final Honours School of Zoology in 1924. He then undertook joint research in the Departments of Zoology and Entomology and graduated Bachelor of Science in 1927. He was appointed University Demonstrator in Zoology in the same year and in 1933, in addition to the University position, Lecturer in University College.

Increasingly specialising in genetics he was appointed University Reader in Genetics in 1939 and was Director of the Genetics

Laboratory 1952-69 and Professor of Ecological Genetics 1963-69.

Ford was one of the first scientists to be elected a Fellow of All Souls College since the seventeenth century and served two terms of office as Senior Dean. He was President of the Genetical Society, 1946-49.

Ford made many outstanding contributions to genetics which were summed up by Sir Cyril Clarke in his Independent obituary:

Henry's work on wild populations of butterflies and moths was the first to show that the predictions made by [R A] Fisher in his theoretical work on evolution were correct, and he was thus the founder of ecological genetics.

Particularly interesting was the work done at an early age with his father on the effect of fluctuation in numbers on evolution in the Marsh Fritillary butterfly, and later his investigations into spot number in the Meadow Brown butterly.

He was the first to describe and define genetic polymorphism, that delicate balance between conformity and diversity, and he suggested that the human blood group polymorphisms might have importance in susceptibility to disease. He also showed that the success of the industrial melanic peppered moth was the result of physiological advances as well as of colour change. He refined the technique of mark-release recapture and this helped greatly to estimate the force of selections in wild populations. His investigation of the pigment of Lepidoptera was one of the most successful attempts at relating classification to chemistry.

Ford was the author of many articles in the scientific journals and a number of important and influential books: Mendelism and Evolution, The Study of Heredity, Genetics for Medical Students, Butterflies, Moths, Ecological Genetics, Genetic Polymorphism, Genetics and Adaptation, Understanding Genetics and Taking Genetics into the Countryside.

Closely related to Ford's scientific researches was a great interest in conservation. In 1945 he became a member of the Special Committee appointed by the Ministry of Town and Country Planning to study the conservation of wild life in Britain. The Committee's report resulted in the formation of the Nature Conservancy on whose governing body Ford served, 1949-59. Other interests included

heraldry and archaeology and in 1974 he published with ${\tt J}$ S Haywood Church Treasures in the Oxford District.

Ford's scientific achievements have been recognised with numerous honours and awards. He was elected a Fellow of the Royal Society in 1946 and awarded its Darwin Medal in 1954. He received the Weldon Memorial Prize of Oxford University in 1959, an Honorary D.Sc from the University of Liverpool in 1964, the Silver Medal of the University of Helsinki in 1967 and an Honorary Fellowship of the Royal College of Physicians in 1974.

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the List of Contents. There are interesting records of Ford's research, lectures, publications and scientific correspondence.

Section A, Biographical, brings together obituaries and tributes, material relating to Ford's career, honours and awards, and photographs. Of particular interest are Ford's replies to a 'Questionnaire concerning the evolutionary synthesis' sent to him in 1974 (A.9) and Ford's own statement of his contributions to science (and archaeology) prompted by a 1982 Oxford Zoology finals question (A.10).

Section B, Oxford, is very slight. There are, however, reports on Ford's teaching and research 1946-58 (B.1) and material relating to Ford's opposition to the admission of women as Fellows of All Souls College (B.8).

Section C, Research, is the largest in the collection. There is material relating to Ford's early research in collaboration with J S Huxley on Gammarus chevreuxi (C.1, C.2) and work on Primula including correspondence and papers from W F Bodmer (C.65 - C.70). However, the most extensively documented research is that undertaken by Ford over many years on Maniola jurtina (C.4 - C.64) and Panaxia dominula (C.72 - C.111).

Section D, Lectures and publications, documents Ford's university lectures and a number of Ford's books on genetics and archaeology. There are records of Ford's Zoology, Genetics, Medical Genetics and Statistics courses from 1939 to the early 1970s (D.1-D.6, D.8) and of Ford's books Moths (D.10 - D.13) and Ecological Genetics (D.22 - D.26), his Royal Society memoir of Th. Dobzhansky (D.27 - D.29) and 'The fogou near Boleigh, West Cornwall' with E Clark (D.35 - D.43). There is also correspondence and papers relating to the Festschrift edited by R Creed Ecological Genetics and Evolution. Essays in honour of E B Ford (D.16).

Section E, Visits and conferences, is very slight but includes material about an American Academy of Arts and Sciences Workshop on the Evolutionary Synthesis 1974 (E.6, E.7) and a Royal Entomological Society of London Symposium on the Biology of Butterflies 1981 which was dedicated to Ford (E.8).

Section F, Correspondence, contains significant but patchy records of Ford's scientific correspondence. Ford did not keep correspondence systematically with the result that there were few extended exchanges with colleagues. However, the section has been greatly strengthened by generous contributions from Sir Cyril Clarke, Professor D A Jones and Mr P J Placito. Additionally a former

secretary handed over carbons of outgoing letters 1963-74 to Ford's executors after his death and these provide an interesting record of his activities during this period. An exceptional feature of this section is an exchange of correspondence 1922 between W Bateson and Sir John (later Lord) Simon relating to the Russell v Russell case (F.4).

LOCATION OF OTHER MATERIAL

The Hope Collections, University Museum, Oxford, holds the following printed material and specimens:

- a) Ford's personal copies of his own books, annotated by him with revisions;
- b) A large collection of reprints by authors other than Ford but bearing closely on his work, on various aspects of evolution and genetics, divided by subject catagories determined by Ford;
- c) A large number of reprints on genetics comprising the papers by Ford himself and jointly with others, and some by his close collaborators;
- d) A large number of specimens of Maniola jurtina which originated from collaborative work between Ford and Mr P J Placito. With the specimens are the relevant 'scoresheets' and χ squared calculations.

ACKNOWLEDGEMENTS

The compilers of the catalogue are very grateful to the following:

Mr P J Placito, for assembling the Ford papers in Oxford before their transfer to Bath and for adding his <u>Wadham</u>

<u>College Gazette</u> obituary of Ford and related correspondence
(A.3), photographs of Ford taken in 1987 (A.19) and his correspondence with Ford 1980-88 (F.57-F.68);

Sir Cyril Clarke, for making available his correspondence with Ford 1955-87 (F.13-F.37);

Professor W H Dowdeswell, for advice on the scientific content of the manuscripts and for making available Ford's letter to him of 12 April 1987 (C.63);

Professor D A Jones, for advice on the scientific content of the manuscripts and for making available his account of Ford's work with Panaxia dominula (A.4A), his 1988 and 1989 Panaxia dominula records made as a continuation of Ford's work (C.81, C.82 and C.102), the correspondence between Ford and P G 'Espinasse 1935, 1942 (F.44A) and his own correspondence with Ford 1957, 1962, 1971 (F.48).

Peter Harper Timothy E Powell Bath 1989 SECTION A

BIOGRAPHICAL

A.1 - A.19

Obituaries and tributes

- A.1 The Times; Independent (Sir Cyril A Clarke); Daily Telegraph.
- A.2 Nature (Sir Cyril A Clarke); Trends in Ecology & Evolution.

 (D A Jones)
- A.3 Wadham College Gazette (P J Placito).

4pp typescript and correspondence arising from Placito's obituaries for the Wadham College Gazette and the Oxford Journal, with reminiscences of Ford.

- A.4 'Henry Ford and Butterflies'. Dedication by Miriam Rothschild for The Biology of Butterflies ed. R I Vane Wright and P R Ackery (1984). See E.8.
- A.4A '50 years of studying the Scarlet Tiger Moth' Trends in Ecology & Evolution, October 1989 (D A Jones).

Autobiographical and bibliographical

- A.5 Curriculum vitae and research programme prepared to support Ford's candidature for the André Dreyfus Prize. Last entry in cv is Ford's election to Fellowship of All Souls College Oxford 1958.
- A.6 Biographical account for supplement of scientists' biographies to McGraw-Hill's Encyclopedia of Science and Technology; brief correspondence from McGraw-Hill. 1965.
- A.7 Biographical accounts prepared for The Times c.1965-67.

Biographical

- A.8 Brief correspondence, ms notes <u>re</u> personal record for Royal Society 1969.
- A.9 'Questionnaire concerning the evolutionary synthesis'.

As part of a study of the 'evolutionary synthesis' of the 1930s and 1940s W B Provine and E Mayr organised a workshop at the American Academy of Arts and Sciences Boston in May 1974 and sent the participants including Ford a preliminary questionnaire to elicit personal data and their views on the topic. Some time after the workshop Provine and Mayr sent Ford supplementary questions; his replies to Provine are dated 1 February 1975. In a letter of 16 January 1977 Provine refers to the loss of Ford's workshop presentation because of a tape-recorder malfunction.

Preliminary questionnaire and Ford's replies, supplementary questions and Ford's replies, brief correspondence from Provine 1976, 1977.

See also E.6, E.7.

- A.10 'The Experimental Work of E B Ford'. Brief statement by Ford listing his contributions to science (and archaeology) given in response to requests for his own answer to a 1982 Zoology Finals question 'Assess the contribution of E B Ford to Genetics'.
- A.11 Bibliographies.

Career, honours and awards

A.12 'Application for the Hope Professorship of Zoology (Entomology) in the University of Oxford'.

The application, consisting of statement in support of application, 'Summary of Career' and list of publications, was originally made in 1947-48. The 'Summary of Career' and publications list have ms additions updating them to 1957.

Biographical

- A.13 Letter from J W S Pringle notifying Ford he has been unanimously recommended for election to a Chair in Ecological Genetics by the Biology Board, 7 May 1963.
- A.14 Honorary Fellowship of Royal College of Physicians, 1974.

 Notification of election, rough ms draft of Ford's letter of thanks, letters of congratulation, papers for Special Meeting for the Admission of Fellows, 5 June. Folder also includes correspondence re an engraved silver tumbler given to the College by Ford, 1975-76.
- A.15 Miscellaneous honours and awards:

Honorary D.Sc., University of Liverpool, 1964.

Invitation to deliver first E B Ford Lecture, University of Manchester, 1967.

Silver Medal of University of Helsinki, 1967.

Honorary Membership of Colombian Society of Naturalists, 1968.

Honorary Membership of the Society Hispano-Luso-Americana of Lepidopterology, 1973.

Invitation to serve as Vice-President of the Somerset Archaeological and Natural History Society, 1974.

A.16 Order of Service for Wadham College Chapel, Oxford, 24-30 January 1988 'including special prayers for E B Ford' who died 21 January.

Order of Service for Ford's funeral, All Souls College Chapel, Oxford, 27 January 1988.

Biographical

Photographs

A.17 Photographs of Ford 1965, 1967 (with Th. Dobzhansky 'working with Panaxia') and nd.

A.18 Photograph of Ford, Sir Alister Hardy and J R Baker posed in front of their triple portrait by H Schwarz unveiled in Zoology by J S Huxley 1972.

Folder also includes brochure re portrait.

A.19 Mounted photographs of Ford at All Souls College and Wadham College, June 1987.

Includes photograph of Ford with T C Keeley.

SECTION B OXFORD B.1 - B.11

B.1 Department of Zoology.

1946 - 58

'Report presented to the General Board by E B Ford, FRS. (Covering the period October 1946 to September 1951)'.

Lists Ford's lectures and demonstrations in Zoology (to 1948) and Genetics, and his publications.

'Report by Dr E B Ford on his present period of office as Reader in Genetics. 30 September 1951 to 30 September 1958'.

Accounts of Ford's lecture courses, the work of researchers in the genetic laboratories (H B D Kettlewell, P M Sheppard, A B Acton, D Michie and K G McWhirter) and of Ford's own research and other activities.

B.2-B.9 All Souls College.

1975 - 87

B.2 1975, 1976.

B.3-B.5 1977. Presentation of the New Warden to the Visitor.

The Visitor of All Souls College is the Archbishop of Canterbury. On the occasion of the Presentation of the newly elected Warden on 6 November Ford, as Senior Dean, was orator. The material is chiefly correspondence with Lambeth Palace and Ford's drafts of the Order of Service.

- B.3 February May.
- B.4 September November. Includes an exchange \underline{re} a disagreement as to whether the Visitor was confirming the election of the new Warden or simply acknowledging it.
- B.5 Ford's ms notes, draft letters etc.
- B.6 1977-78. Includes notes on College patronage, papers <u>re</u> an application for a senior research fellowship.

Oxford

B.7 1978, January - March. Correspondence and papers <u>re</u> proposal to admit women guests to lunch in the College buttery.

Ford opposed this, believing 'it would tend to break down the unique style and ethos of All Souls' and fearing it was a first step towards admitting women as Fellows, as indeed it proved (see B.8).

- B.8 1978, June, November. Correspondence and papers <u>re</u> proposed amendment to the college's statutes so as to allow the admission of women as Fellows.
- B.9 1979, 1982, 1987 and nd. Includes membership list of Codrington Club June 1987.
- B.10 Wadham College. 1977

 Brief correspondence re dining in College.
- B.11 De Vere Society 1987

The De Vere Society is dedicated to proving that Edward de Vere, Earl of Oxford, was the real author of the Shakespearian corpus.

Brief correspondence \underline{re} registration as a University Society.

SECTION C

RESEARCH

C.1 - C.120

Most of the material in this section was found in boxes intermixed with reprints by Ford and others. The reprints have not been retained with the manuscript collection, and the boxes have been discarded, but where appropriate Ford's own designations on the boxes have been used in compiling the catalogue entries.

C.1, C.2	Gammarus chevreuxi
C.3	Insect marking
C.4-C.64	Maniola jurtina
C.65-C.70	Primula
C.71	'Adaptation (genetics)'
C.72-C.111	Panaxia dominula
C.112	'Human genetics'
C.113	Blood groups
C.114, C.115	'Protein analysis (electrophoresis) includes speciation'
C.116	'Evolutionary mechanisms'
C.117	Melanism
C.118	'Chromosomes and relation to Evolution Suomalainen (lepidoptera)'
C.119, C.120	Miscellaneous

Gammarus chevreuxi

Ford published papers in 1925, 1927 and 1929 (in collaboration with J S Huxley) on work with <u>Gammarus chevreuxi</u>.

- C.1 Index cards recording experimental results 1924-26.
- C.2 Index cards recording experimental results 1926-28.
 Includes postcard from Huxley postmarked 22 February 1926.

Insect marking ('Scilly Islands 1938 and 1946')

C.3 Insect marking <u>L.icarus</u> August - September 1938 and Maniola jurtina August - September 1946.

The 1946 Maniola jurtina material predates, and was found separately from, the main sequence of material at C.4 - C.64.

Maniola jurtina

Ford studied the Meadow Brown butterfly Maniola jurtina over many years and with many collaborators including in Britain P M Brakefield, E R Creed, W H Dowdeswell and K G McWhirter, in Italy V Scali, and in Portugal P J Placito.

Notebooks

- C.4 1958. Breeding experiments.
- C.5 1961. Expenses.
- C.6 1962. Expenses.

	Data sheets
C.7	1952, 1956. Sutherland, Southern England.
C.8	1959. Ipswich only.
C.9	1961. Scilly Islands, Cornwall, Devon, Ipswich, Sicily.
C.10, C.11	1962. Devon, Cornwall. 2 folders.
C.12	1963. Devon, Cornwall, Scilly Islands, Ipswich, France.
C.13	1964. Devon, Cornwall, Scilly Islands, Ipswich, Rhodes.
C.14	1965. Devon, Cornwall.
C.15	1966. Devon, Cornwall, Scilly Islands etc.
C.16	1967. Devon, Cornwall, Scilly Islands, Italy, Malta etc.
C.17	1968. Devon, Cornwall etc. See also C.51.
C.18	1969. Devon, Cornwall, Scilly Islands, Ipswich, Oxford, Finland.
C.19	1970. Devon, Cornwall, Scilly Islands, Ipswich, Surrey.
C.20, C.21	1971. Devon, Cornwall, Scilly Islands, Ipswich. 2 folders.
C.22	1971. Cornwall. Maniola tithonus data found with C.20, C.21.

C.23	1972. Devon, Cornwall, Somerset, Dorset, Pembrokeshire, Ipswich, France.
C.24	1973. Devon, Cornwall, Somerset, Dorset, South Wales, Ipswich.
C.25	1974. Devon, Cornwall, Somerset, Dorset, Pembrokeshire, Ipswich, Scilly Islands.
C.26	1975. Devon, Cornwall, Dorset, Wiltshire, Ipswich.
C.27	1976. Devon, Cornwall, Somerset, Dorset, Pembrokeshire, Skokholm, Ipswich.
C.28	1977. Devon, Cornwall, Ipswich.
C.29	1978. Devon, Cornwall, Ipswich.
C.30	1979. Devon, Cornwall, Ipswich.
C.31	1980. Devon, Cornwall, Ipswich.
C.32	1980. Spain, Portugal.
C.33	1981. Devon, Cornwall, Ipswich, Portugal.
C.34	1982. Devon, Cornwall, Ipswich, Portugal.
C.35	1983. Devon, Cornwall, Ipswich.

C.36.	1984. Devon, Cornwall, Ipswich.
C.37	1985. Devon, Cornwall, Ipswich.
C.38	1986. Devon, Cornwall, Ipswich.
C.39	1987. Devon, Cornwall, Ipswich.
C.40	Computer print-outs sent to Ford by P M Brakefield, October 1983.
	<u>Drafts</u>
C.41	'Spot-placing analysis in <u>Maniola jurtina</u> ', nd but relates to 1958-59 research. 17pp typescript.
C.42	'Further studies of the ecological bacteriology of Maniola jurtina' by P C and A J Chabora, 18 August 1968. 3pp typescript.
C.43	'Evolutionary studies on Maniola jurtina (Lepidoptera Satyridae): the "Boundary Phenomenon" in Southern England, 1961 to 1968' by E R Creed, W H Dowdeswell, E B Ford and K G McWhirter. 36pp typescript with ms corrections and additions + references and ms graphs. The paper was published in Essays in Evolution and Genetics in Honor of Theodosius Dobzhansky (eds. M K Hecht and W C Steere), 1970.
C.44	Untitled typescript paginated 2-8 + refs, tables, photograph etc., attached to letter from V Scali, 30 March 1976.
C.45	'Copy of Discussion and Summary of Valerio's Tuscan Island paper', nd. 7pp draft of part of paper by V Scali.

'Field studies on the Meadow Brown Butterfly' by C.46 P M Brakefield, 8 June 1977. 12pp draft + refs and figs. Draft of part of Chapter 6 of W H Dowdeswell's C.47 The Life of the Meadow Brown. 14pp., 1981. 'Spot distribution in the Meadow Brown butterfly, C.48 Maniola jurtina L. (Lepidoptera: Satyridae): South Welsh populations' by M de L Brooke, D R Lees and J M Lawmans, latest bibliographical reference 1983. 17pp typescript. Shorter notes and drafts. Includes 'copy of statement C.49 sent to Dobzhansky' on 'Bacterial genetics in Maniola jurtina', notes of ideas for papers, bibliographical references. Correspondence 1962, 1966-67. C.50 1968-69. Includes data for 1968. C.51 Includes notes on 'spot-size as an index of C.52 1971-72. variation in the butterfly Maniola jurtina'. Includes 'an analysis of all the data we have C.53 1972. for spot-size from the northern transect area covering the years 1966-71, also a spot-size profile for one year' and expenses for 'expedition 1972'. Includes data for Scottish locations from C.54 P M Brakefield and expenses for 1973 expedition.

C.55	1974.
C.56	1975(1).Includes results of Scottish fieldwork from Brakefield.
C.57	1975(2). Re paper by J F D Frazer and H N A Willcox 'Variation in spotting among the close relatives of the butterfly, Maniola jurtina', Heredity, 34, 305-322.
C.58	1976 (1). Includes fieldwork expenses.
C.59	1976 (2). Includes diagrams and tables from Brakefield illustrating analysis of data from his intensive population marking experiment.
C.60	1977-79. Includes fieldwork expenses for 1977 and 1978.
C.61	1980-81. Arrangements for fieldwork, expenses.
C.62	1982-83. Includes copy of letter from Brakefield published in <u>Times Higher Educational Supplement</u> and results of fieldwork on Islay from D Ellis.
C.63	1987. Includes last letter from Ford to Dowdeswell 12 April. Ford encloses 1986 data from the Algarve.
C.64	nd.
Primula	
	Data

C.65 Locations in Cornwall, Devon, Somerset and Suffolk, 1952-58.

C.66 Sparkford area, 1977-82.

Notes and drafts

C.67-C.69 Copies of papers by J L Crosby (1949) and W F Bodmer (1959 and 1960); ms notes by Ford.

3 folders.

C.70 Correspondence

W F Bodmer 1959-61, 1964

J L Crosby 1958

R A Fisher 1957

J S Huxley 1957

A R G Owen 1959

'Adaptation (genetics)'

C.71 Correspondence and papers, various dates 1954-70.

Includes draft headed 'Paleogenes and neogenes' and 'read to Genetical Society Nov. 1965', and material re warfarin resistance.

Panaxia dominula

For a discussion of Ford's work with Panaxia dominula see D A Jones
'50 years of studying the Scarlet Tiger Moth' in Trends in Ecology and
Evolution October 1989, a copy of which is presented at A.4A.

Field notebooks 1957. Pages torn from notebook with graph attached. C.72 C.73 1958 1959. C.74 1960. 1965 1966. 1961 C.75 1962 1964. C.76 1963. C.77 1967 1968 (part). C.78 1968 (continuation) 1970 1972. C.79 1977 1978. In 1976 desk diary. C.80 These records were made by D A Jones as a continuation C.81 of Ford's work. These records were made by Jones as a continuation 1989. C.82 of Ford's work. Data sheets C.83 1958. C.84 1959. 1960. C.85

C.86	1961.	
C.87	1962.	
C.88	1963.	
C.89	1964.	
c.90	1965.	
C.91	1966.	
C.92	1967.	
C.93	1968.	
C.94	1969.	
C.95	1970.	
C.96	1971.	
C.97	1972.	Includes pages torn from notebook.
C.98	1973.	
C.99	1974.	Includes pages torn from notebook.

- C.100 1975.
- C.101 1976 and nd.
- C.102 Tables and graph recording captures of three forms of Panaxia dominula at Cothill, Berkshire, population size of the colony and frequency in it of the medionigra gene covering the period 1939-78 and 1988. The table with the 1988 data was made available by D A Jones, July 1989.

Drafts

- C.103 'The larval food plants of Panaxia dominula (L.) by L M Cook', latest bibliographical reference 1958. 14pp typescript + bibliography, tables and figs.
- C.104 'The establishment of artificial colonies' by P M Sheppard, with covering letter to Ford 27 June 1961. 8pp typescript + tables and graph.
- C.105 'The medionigra polymorphism of Panaxia dominula (L).'
 by Ford and Sheppard, with covering letter from Sheppard
 to Ford 29 November 1968. 17pp typescript + summary,
 references, etc.

Correspondence

- C.106 1958, 1959.
- C.107

 1960. Information from The Nature Conservancy re

 Cothill: notes on all references to Cothill in the

 Report & Proceedings of the Ashmolean Society of Oxfordshire, abstracted by C S Elton, February 1949, and copy
 of letter to Elton from A R Clapham, 16 March 1949.

C.108	1961, 1962. Includes correspondence <u>re</u> <u>Panaxia</u> <u>quadripunctaria</u> .
C.109	1962-64, 1966-69, 1972, 1973. Permits for work at Cothill.
C.110	1967-70, 1972. Includes correspondence <u>re</u> <u>Panaxia</u> <u>quadripunctaria</u> .
	Photographs
C.111	Mounted photographs found with Panaxia material.

'Human genetics'

C.112 Correspondence and papers, various dates 1962-69.

Includes material <u>re</u> intelligence testing, polymorphism, chromosomes.

Blood groups

C.113 Correspondence and papers, various dates 1965-71.

'Protein analysis (electrophoresis) includes speciation'.

C.114, C.115 Correspondence and papers, 1966-70 and nd.

C.114 1966-67 C.115 1968-70 and nd.

'Evolutionary mechanisms'

C.116

Correspondence, 1969, 1970 and nd.

Melanism

C.117

Correspondence and papers, various dates 1973-81.

Includes material on melanism in ladybirds (E R Creed) and moths (D R Lees).

'Chromosomes and relation to Evolution

Suomalainen (Lepidoptera)'

C.118

Correspondence and papers, 1974 and nd. Includes ms notes headed 'Pontecorvo'.

Miscellaneous

C.119

Ms and typescript notes and drafts etc. Includes note on cyanogenetic glucosides prepared by D A Jones before 1960 (private communication July 1989) and letter from C D Darlington 3 December 1971.

C.120

Hardbacked notebook used for notes on the literature. Latest bibliographical reference 1982.

SECTION D

LECTURES AND PUBLICATIONS

D.1 - D.43

D. 1 - D. 9 Lectures

D.10 - D.43 Publications

Lectures

D.1 Index cards used for genetic and medical genetics lecture course notes, various dates 1939-72, and lecture notes for visit to USA February - May 1966 (see also E.2).

Contents of card index box.

D.2 Index cards used for general zoology lecture course notes c.1945-48, and genetics, medical genetics and statistics

course notes, chiefly 1960s. Contents of card index box.

- D.3, D.4 'Ecological genetics lectures 1963, 1970, 1974'.
 Contents of wallet folder.
- D.3 Index cards used for course notes.
- D.4 'Ecological genetics important references', course outlines for 'Genetics for third year students 1969' and 'Ecological genetics 1970', statement by Ford on ecological genetics prepared for Zoology sub-faculty meeting 1973.
- D.5, D.6 'Medical genetics lectures'. Contents of wallet folder.
- D.5 Index cards used for course notes, chiefly 1960s.
- D.6 Course outlines, 1967, 1968.

D.7	'Paper read to the Genetical Society 13 November 1965'. 6pp typescript + figs.
	Relates to work on Maniola jurtina.
D.8	Statistics course outline 1969; booklist.
D.9	'The Lepidoptera in Scientific Research', Ford's Lepidopterists' Society Presidential Address, read by J W Tilden at 21st annual meeting of the Society, Carson City Nevada, 21 June 1970. 23pp typescript. Folder also includes ms notes and correspondence republication of Address, general affairs of the Society, 1970-71.
Publications	
D.10 - D.13	Correspondence with Collins Publishers <u>re</u> Ford's volumes <u>Butterflies</u> and <u>Moths</u> in their New Naturalist series, 1961, 1968-77.

- D.10 1961, 1968-70. Principally <u>re</u> preparation of 3rd edition of <u>Moths</u> (published 1972). Folder also includes review of 1st edition Moths, Times Literary Supplement, 6 May 1955.
- D.11 1971-72. 3rd edition Moths.
- D.12 1974-76. New editions, royalties and sales.
- D.13 1977 and nd. Royalties and sales.

D.14	Reviews only of Genetic polymorphism (published 1965).
D.15	'Polymorphism (Genetic)'. 3pp typescript draft entry for unidentified encyclopaedia, nd. Latest bibliographical reference 1968.
D.16	Correspondence and papers re Ecological genetics and evolution. Essays in honour of E B Ford. R Creed ed. (published 1971), 1970-72.
	Includes arrangements for presentation party organised by the Hon. M Rothschild, list of contributors, review in Nature by R C Lewontin with draft reply by Ford.
D.17 - D.20	Correspondence and papers re Evolution studies by observation and experiment Oxford Biology Reader No.55 (published 1973), 1971-79.
	In 1976 control of the Oxford Biology Readers series was passed from the Oxford University Press to the Carolina Biological Supply Company. Ford was invited by the CBSC to prepare a revised edition of his reader which was then cancelled without (in Ford's opinion) adequate financial compensation.
D.17	1971-77.
D.18	1978.
D.19	1979.
D.20	Ms and typescript notes and drafts.

D.21	Agreement with Audio Learning Ltd. 1972, and royalty statements 1975-76, re tape recording on 'Mechanism of Evolution, Evolution in Progress'.
D.22-D.26	Correspondence, with Chapman Hall Ltd. and colleagues, and papers <u>re</u> 4th edition of <u>Ecological Genetics</u> (published 1975), 1972-79.
D.22	1972-74.
D.23	1975 January - May.
D.24	1975 June - December, 1977, 1979.
D.25	Ms and typescript notes and drafts.
D.26	Reviews.
D.27-D.29	Correspondence and papers <u>re</u> Ford's Royal Society memoir of Th. Dobzhansky (published 1977), 1976-77.
D.27	Correspondence with Royal Society and colleagues.
D.28	Notes and drafts; background material.
D.29	Photographs.
D.30	Correspondence and contract with Weidenfeld & Nicholson Ltd., re Taking genetics into the countryside, 1978, 1980, 1982.

D.31	Correspondence, draft, illustrations for National Geographic Magazine article 'The industrial revolution generates a century of adaptation', 1979.
D.32	Brief correspondence with Edward Arnold (Publishers) Ltd., re reprinting, foreign rights etc., of Genetics and adaptation, 1979, 1984, 1985.
D.33	Draft plan, preface, sections on 'The control of diversity and stability Mendelian inheritance', 'Cytoplasmic inheritance' etc., for book on 'Survival and extinction', nd.
D.34	Preface by Ford to an unidentified book on Victorian England by Mrs J B Clarke, nd. 2pp typescript.
D.35-D.43	Drafts and papers <u>re</u> 'The fogou near Boleigh, West Cornwall' by E Clark and Ford and related archaeological publications, nd.
D.35, D.36	43pp draft of 'The fogou near Boleigh, West Cornwall'. 2 folders.
D.37-D.39	Shorter drafts including 'The fogou of Boleigh or Bolleit' for Prehistoric Review and 'The discovery of a sculpture of the La Tène period in Cornwall'. 3 folders.
D.40	Brief correspondence, 1985 and nd.
D.41, D.42	Photographs. 2 folders.
D.43	Notebook used for records of archaeological research 1957-59, 1964.

SECTION E	VISITS AND CONFERENCES E.1 - E.8
52011011 2	
E.1	Royal Society discussion meeting, ?December 1955.
	Letter from Royal Society <u>re</u> meeting which, although arranged by Ford, he had been unable to attend.
E.2	Discussion on relations between the biological and social sciences, Nuffield College Oxford, 2-3 May 1964. Ford was to give the opening contribution.
	Provisional programme and list of invitees.
	Visit to the United States, 26 February - 22 May 1966.
	Itinerary only. For Ford's lecture notes see D.1.
E.3 - E.5	Course on Ecological Genetics, Erice, Sicily, 21-30 September 1972. Ford spoke on 'The origin and effects of genetic polymorphism' and 'Powerful selection demonstrated by ecological genetics'.
E.3	Preliminary programme; letter from P M Sheppard enclosing summary of his lectures on 'The genetic effects of environmental changes in the Amazon Basin' and 'The evolution of super-genes'.
E.4	Ms notes for Ford's contributions and typescript drafts posted October 1972.
E.5	Correspondence arising, 1972-73.
E.6, E.7	American Academy of Arts and Sciences Workshop on the Evolutionary Synthesis, Boston, 23-25 May 1974.
	In association with this Workshop the organisers, W B Provine and E Mayr, sent out a questionnaire to participants. Ford's replies to this and to supplementary questions can be found at A.8, and those of H L Carson and (as edited by Mayr)

of C Stern are at E.7. Replies of C D Darlington, B Rensch, G G Simpson, E Boesiger, G L Stebbins and Th. Dobzhansky are in the collection of Darlington's papers deposited in the

Bodleian Library Oxford in 1985 (CSAC 106/3/85).

Visits and conferences

E.6 Agendas; ms notes headed 'History of Genetics', 'Harvard Conference 1974' and 'Mayr's Conference '74.'

E.7 Replies of Carson and Stern to questionnaire on the evolutionary synthesis.

E.8 Royal Entomological Society of London Symposium on The Biology of Butterflies, 23-26 September 1981. The Symposium was dedicated to E B Ford. For the Dedication by Miriam Rothschild which appeared in the published proceedings see A.4.

Programme; correspondence re arrangements.

SECTION F

CORRESPONDENCE

biographical, scientific or historical interest.

F.1 - F.117

- F.1 F. 81 SCIENTIFIC CORRESPONDENCE

 Principally correspondence from individuals in alphabetical order, dated and indexed, with an indication of any information of particular
- F.82 F.115 DAILY CARBONS

 Correspondence with individuals, organisations and firms kept by Ford's secretary 1963-74.

 Indexed, in chronological order.
- F.116, F.117 SHORTER SCIENTIFIC CORRESPONDENCE Indexed, in chronological order.

Scientific Correspondence

F.1, F.2 Allan, T M

1972

re Allan's paper 'ABO Blood Groups and Sex Ratio at Birth'.

2 folders.

F.3 Barrington, R D G

1985

Maniola jurtina.

F.4 Bateson, W

1909-11, 1922

William Bateson was Director of the John Innes Horticultural Institution 1910-26 and Fullerian Professor of Physiology at the Royal Institution 1912-14. He championed the rediscovered work of Mendel on heredity and gave the name 'genetics' to his science.

Correspondence with Sir John (later Lord) Simon \underline{re} the Russell v. Russell case, 1922. Two Simon letters and a Bateson draft. Simon asked Bateson whether a blue eyed man and a blue eyed woman could have a brown eyed baby: 'Is there anything of Mendelian or other lore which applies to such a point?'

Folder also includes photocopies of eight items of correspondence received by Bateson, 1909-11. There is a list headed 'Catalogue of papers xeroxed 11 December 1973' signed by C D Darlington and Ford.

F.5 Bennett, J H

1978

re R A Fisher

F.6 - F.12 Brakefield, P M

1974-84

F.6, F.7 1974. Maniola jurtina data from Scotland.

2 folders

F.8	'An ecological genetics study of the butterfly, Maniola jurtina in Central-Eastern Scotland, 1973-74' by Brakefield.
F.9	1974-75. Expeditions to Ecuador and Galapagos islands.
F.10	1976, 1978.
F.11	1981. Maniola jurtina data from Holland.
F.12	1984. Maniola jurtina; Adalia bipunctata.
F.13 - F.37	Clarke, C A 1955-1987
F.13	1955, 1960, 1964. Includes letter to Clarke, 15 January 1960, from Ford commenting on Clarke's article 'The relative fitness of Human Mutant Genotypes'.
F.14 - F.19	1964-67. Nuffield Unit of Medical Genetics.
	The unit was established in the Liverpool University Department of Medicine by a 1963 Nuffield Foundation grant, with Clarke as its first Director. A new wing, added to the Department of Medicine to house the Unit, was opened by Ford 26 May 1967.
F.14	1964. First Annual Report.
F.15	1966. Third Annual Report; schedule for building new wing; invitation to Ford to open new wing.
F.16	1967 (1). Correspondence $\underline{\text{re}}$ arrangements for opening ceremony and correspondence arising.
F.17	1967 (2). Rough ms draft of Ford's address for opening ceremony.

1967 (3). Memorabilia of opening ceremony including brochure F.18 on the work of the Unit. F.19 1967 (4). Fourth Annual Report. F.20 1970-72. 1974-77. 1976-77 correspondence is re the Royal Society F.21 Biographical Memoir of P M Sheppard, written by Clarke. F.22 - F.29 1977-84. Lymantria dispar Material re Clarke and Ford's research on dispar, the results of which were published in the Proc. Roy. Soc. Lond. B 206 (1980), 214 (1982) and 218 (1983). F.22 - F.24 Correspondence. F.24 1982-84 F.22 1977-78 F.23 1979-80 F.25 Data 1978-82 and nd. F.26 - F.28 Notes and drafts, most dated 1979. 3 folders. F.29 Photographs and slides. 1980, 1983. Chiefly re possible study of mimicry and F.30 non-mimetic polymorphism under ultra-violet and infra-red light. Includes photograph of 'strange butterfly (photograph F.31

& comments)'.

- F.32 1985. Includes correspondence re Maniola jurtina, introgressive hybridization between dardanus and phorcas, and draft by Ford on Fixed Retirement Ages'.
- F.33 F.36 1984-87. Biston betularia.

The material is chiefly \underline{re} the effect of moonlight on betularia for possible publication.

F.33, F.34 Correspondence.

2 folders.

- F.35 Data.
- F.36 Draft, 6pp typescript.
- F.37 1987. Chiefly re 'the Julian Huxley Celebrations'.
- F.38 Creed, E R 1966, 1976, 1979

1979 item is reprint of Ford's obituary of Creed.

F.39 re de Beer, G R 1972-74

Correspondence, chiefly with Cecily, Lady de Beer, widow of Sir Gavin de Beer, re the obituary of de Beer Ford wrote for Nature. Includes lists of publications, and draft of the obituary.

F.40 - F.43 Dobzhansky, Th. 1961-76

For material relating to Ford's Royal Society Biographical Memoir of Dobzhansky see D.27-D.29.

F.40	1961-64. Chiefly \underline{re} visits to the UK, February-March and June 1964.	
F.41	1965-67. Chiefly re visit to UK, July-August 1967.	
F.42	1968, 1969. Includes correspondence \underline{re} Ford's contributi to the Dobzhansky Festschrift.	on
F.43	1970-76.	
F.44	Dowdeswell, W H 1969, 1970	
F.44A	'Espinasse, P G 1935, 1942	
	1942 correspondence is $\underline{\text{re}}$ Ford's book Genetics for Medical Students.	
F.45	Gilbert, L E 1969, 1972	
	1972 material is re Heliconius butterflies.	
F.46	Handford, P T 1979-82, no	ı.
	Research, recommendations.	
F.47	re Huxley, J S	
	Includes draft of Ford's obituary of Huxley.	

Jones, D A	1957, 1962, 1971
1957 correspondence is <u>re</u> Jones's a graduate research into ecological g his letter of 25 March 1957 Ford st from people coming to the Genetics	enetics under Ford. In ated what he required
Kettlewell, H B D	various dates 1957-79
Research, recommendation, obituarie	es of Kettlewell 1979.
Kurti, N	1972
Proposal to increase the size of the Royal Society.	ne Fellowship of the
McWhirter, K G	1969-71,1974,1978
1969. Includes letter from McWhir to radiation and mutation.	rter, 10 May, referring
1970.	
1971. Includes first draft of McW Theory and Evolution in Maniola jur correspondence.	Whirter's paper 'Systems
1974, 1978. 1974 item is a 13pp 1 quantum genetics, selective factors group alleles in cold climates, and	s favouring certain blood
	1957 correspondence is re Jones's a graduate research into ecological ghis letter of 25 March 1957 Ford st from people coming to the Genetics Kettlewell, H B D Research, recommendation, obituaries Kurti, N Proposal to increase the size of the Royal Society. McWhirter, K G 1969. Includes letter from McWhirtor radiation and mutation. 1970. 1971. Includes first draft of McWhirtory and Evolution in Maniola juncorrespondence. 1974, 1978. 1974 item is a 13pp quantum genetics, selective factors

F.65

Correspondence

F.55, F.56 Nuffield Foundation

1970-81

In 1964 Ford received a grant of £5000 to be spent on his personal research. This was exhausted by 1974 but a second appeal to the Foundation was successful and Ford was awarded a further £4000.

The material includes correspondence with the Foundation, draft applications for second grant, reports on research and statements of the account.

2 folders.

F.57 - F.68	Placito), P J 1980-88
F.57	1980.	Algarve research project; Celtic migration.
F.58	1981.	Algarve research project; Maniola jurtina.
F.59	1982. to UK.	Jan-June. Visits by Ford to Portugal and Placito
F.60	1982.	July-Dec. Maniola jurtina.
F.61	1983.	Visits; Maniola jurtina.
F.62, F.63	1984.	Chiefly re Ford's health.
	2 folde	ers.
F.64	1985.	Includes Maniola jurtina data for the Algarve.

1986 (1) Visits; Ford's health.

F.66	1986 (2) Reports on Maniola jurtina in the A to Ford by Placito 19 May - 5 December, with r correspondence.	lgarve sent elated
F.67	1987. Maniola jurtina; Ford's health; vis	its.
F.68	1988, nd. Includes Ford's last letter to Pla 20 January. He died the next day.	cito written
F.69	Powell, J R	1971, 1974
	Includes draft of 'Rates of dispersal of Drosc pseudobscura and its relatives' by Powell and	philia Th. Dobzhansky.
F.70	Ridley, N H L	1967, 1972, 1981
F.71 - F.74	Rothschild, M L	1960-85
F.71	1960-69. Chiefly <u>re</u> mimicry.	
F.72	1973-75. Mimicry.	e .
F.73	1975, 1977.	
F.74	1978, 1985, nd.	
F.75	Scali, V	1971-73, 1977
	1971 correspondence is <u>re</u> Insular Spotting Dis in <u>Maniola jurtina</u> .	stribution

F.76 - F.80 Sheppard, P M

1957 - 77

F.76

1957-71.

F.77 - F.79 1976, 1977. Correspondence and papers re 'Heliconius paper' by Sheppard, J R G Turner, K S Brown and W W Benson. Ford saw it through the final stages of preparation during Sheppard's illness and following his death submitted it to the Royal Society for publication in Phil. Trans.

3 folders.

F.80 Lists of Sheppard's publications; obituaries by A J Cain.

F.81 Turner, J R G

1964 - 76

Recommendations.

Daily Carbons					
F	.82	1963, 1964	F.95	1968 Feb, Mar	
F	.83	1965 Jan-July	F.96	1968 Apr, May	
F	.84	1965 Sept-Dec	F.97	1968 June	
F	.85	1966 Jan-Apr	F.98	1968 July, Aug	
F	.86	1966 May-Aug	F. 99	1968 Oct	
F	.87	1966 Sept-Dec	F.100	1968 Nov, Dec	
· F	.88	1967 Jan-June	F.101	1969 Jan, Feb	- "
F	.89	1967 July	F.102	1969 Mar, Apr	
F	.90	1967 Aug, Sept	F.103	1969 May	
F	.91	1967 Oct	F.104	1969 June, July	
F	.92	1967 Nov	F.105	1969 Aug	
. F.	.93	1967 Dec	F.106	1969 Sept, Oct	
F.	.94	1968 Jan	F.107	1969 Nov, Dec	

F.108	1970 Jan, Apr	F.112	1971 Jan-Apr
F.109	1970 May - July	F.113	1971 May-July
F.110	1970 Aug-Oct	F.114	1971 Aug-Nov
F.111	1970 Nov, Dec	F.115	1972-74

Shorter Scientific Correspondence

F.116 1956 - 73

F.117 1975 - 83

INDEX OF CORRESPONDENTS

ALLAN, T M	F.1,F.2,F.85
ALLARD, Robert Wayne	F.116
ALLEN & UNWIN LIMITED	F.115
ALL SOULS COLLEGE OXFORD	B.2-B.9
AMEY, R W	C.109
APPLETON-CENTURY-CROFTS	F.42,F.102,F.103
ARNOLD, Richard	F.93
ASSOCIATED BOOK PUBLISHERS LIMITED	F.95,F.110-F.112
ASSOCIATION OF BRITISH ZOOLOGISTS	F.92,F.94,F.96,F.97,F.99 F.101,F.107
AUDIO LEARNING LIMITED	D.21
AUERBACH, Charlotte	F.92,F.96
BADENOCH, Sir John	A.14,F.62
BAINBRIDGE, Richard	F.89-F.97,F.105,F.106
BAND, Henrietta T	C.116,F.111
BARBER, David A	F.85
BARKER, J F	F.98
BARNES, Winston Herbert Frederick	F.15,F.16
BARRINGTON, Ernest James William	F.39
BARRINGTON, Rupert D G	F.3
BATESON, William	F.4

E.3,E.5
F.85
F.89,F.103,F.104,F.106
F.84,F.86,F.100
F.5,F.85
F.107
F.113
C.109
F.91
F.90,F.117
F.95
F.100
C.109
F.117
F.91
F.91
F.108
F.115
F.39
C.70
F.92-F.95,F.100,F.101,F.103-F.112
F.84

BOWRA, Sir (Cecil) Maurice F.108

BOX, Joan G F.96, F.97

BRADSHAW, Anthony David D.22, D.24, F.90, F.92, F.96-F.98,

F.103,F.107,F.108,F.110

F.90,F.95,F.99-F.101,F.105

BRAKEFIELD, Paul Martin C.54, C.56, C.59, C.60, C.62,

F.6-F.12

BRENT, Leslie F.92,F.94

BRIGGS, Robin B.6

BRITISH ASSOCIATION FOR THE ADVANCEMENT

OF SCIENCE

BRITISH COUNCIL F.10,F.90,F.91,F.95,F.96

BRITISH JOURNAL OF HOSPITAL MEDICINE F.101

BRITISH MEDICAL JOURNAL F.82,F.93

BROWER, Lincoln Pierson D.16, F.94-F.96, F.99, F.100, F.104,

F.108,F.109 See also F.82

BULMER, Michael George F.116

BURKE, P F.98,F.99

BURNS, John McLauren C.50, C.114, C.115, F.86, F.87,

F.107,F.115

BUTLER, Sir Clifford (Charles) F.56

BUTLER, Colin Gasking F.113

CADBURY, James F.90,F.95-F.100,F.103,F.107

CAIN, Arthur James D.16,F.85,F.86,F.90-F.97,

F.107,F.113,F.114

CAMPBELL, A H

Index of correspondents

CAROLINA BIOLOGICAL SUPPLY COMPANY D.17-D.19 See E.7 CARSON, Hampton Lawrence F.88, F.90, F.101, F.108 CHABORA, Peter C See also F.94, F.95 D.16, D.22-D.24, F.111-F.115 CHAPMAN & HALL LIMITED F.114 CHAPPEL, H M CHATTERLEY, F J F.95 E.2 CHESTER, Sir (Daniel) Norman CHIASSON, L P F.96,F.103,F.104

B.7

CLAPHAM, Arthur Roy C.107

CLARENDON PRESS, OXFORD D.17,F.85,F.97,F.98,F.102, F.110,F.115

CLARK, Evelyn D.40

CLARKE, Bryan Campbell C.71

CLARKE, Sir Cyril (Astley)

A.15,C.113,C.114,D.22,D.24,
F.13-F.37,F.82,F.86,F.87,

F.92,F.93,F.95-F.104,F.109-F.114

COBB, Richard Charles B.6

COLERIDGE, W L C.110,F.104,F.106

COLLETTE, Alfred Thomas F.86, F.87, F.95, F.104, F.105

COLLINS PUBLISHERS D.10-D.13, F.88, F.95, F.96, F.101

F.103,F.105,F.113

COOK, Laurence M C.108, C.117, F.95, F.115

DORRIEN SMITH, T M

Index of correspondents

B.7 COOPER, John P COULSON, Charles Alfred F.99 COVE, D J F.108 CREED, Edwin Robert C.53, C.55, C.117, D.16, D.22, F.38,F.104,F.105,F.111,F.114 See also C.108, F.82 CROSBY, J L C.70 F.83 CROZE, Harvey DACRE OF GLANTON, Hugh Redwald Trevor-Roper, Baron B.6 D'ARCY, Norman C.109 F.88 DARLINGTON, Arnold C.119, D.16 DARLINGTON, Cyril Dean See also C.71 DAUBE, David F.104 DAWKINS, H Colyear F.33,F.34 de BEER, Sir Gavin (Rylands) F.39,F.83 F.108 de los SANTOS GARCIA, B DEMPSTER, E R F.107 F.104 DENNELL, Ralph DOBZHANSKY, Theodosius D.16, D.24, F.40-F.43, F.82-F.84 F.86,F.87,F.90,F.94-F.96,F.98 F.99,F.102-F.104,F.107-F.114 See also D.27-D.29

C.51

dos PASSOS, Cyril F F.104 C.51-C.53, C.55-C.57, C.59, C.60 DOWDESWELL, Wilfrid Hogarth C.63, C.64, D.24, F.44, F.82, F.84 F.86,F.91-F.111 D.23,F.108 DOWNHAM, David Y F.95 EATON, Robert EDWARD ARNOLD (PUBLISHERS) LIMITED D.32 F.108 EDWARDS, K J R C.62 ELLIS, David F.106 ELSEVIER INTERNATIONAL PROJECTS LIMITED See C.107 ELTON, Charles Sutherland F.97-F.99,F.110 ENCYCLOPAEDIA BRITANNICA F.44A 'EPINASSE, Paul Gilbert EVANS, David Alan Price D.16 F.83,F.86,F.101,F.106 FABER & FABER LIMITED C.57 FINCHAM, John Robert Stanley F.100 FINNEY, David John See also F.82 C.70 FISHER, Sir Ronald (Aylmer) See also F.5 F.98,F.99 FONTANA BOOKS C.112 FORD, Charles Edmund F.90 FRANK, Fritz

FRASER ROBERTS, John Alexander

C.112

HECHT, Max K

HICKEY, Richard J

HINDE, Robert Aubrey

HEED, W B

Index of correspondents

F.93,F.94 FRAZER, J R D F.116 FULLER, K W GENETICAL SOCIETY F.103 F.45,F.86,F.90,F.91,F.94,F.95 GILBERT, Lawrence E F.98,F.106,F.108 C.71,F.108,F.115 GREAVES, J H F.105 GRIFFITHS, Raymond C F.95,F.109 GURDEN, John Bertrand F.96 HACKMAN, Walter F.96 HADDOW, Sir Alexander D.16, F.46, F.90, F.104 HANDFORD, Paul T D.9 HARDWICK, D F F.97 HARDY, Sir Alister (Clavering) F.88,F.95 HARLAND, Sydney Cross HARRE, Rom F.103 F.113 HARRISON, David D.17-D.19,F.114 HEAD, J J F.115 HEATH, John

F.102

F.108

F.104

F.93-F.95

HOENIGSBERG, H F F.96 F.116 HOWARD, J C B.4 HOWARD, Michael Eliot C.70, D.16, F.99, F.115 HUXLEY, Sir Julian (Sorell) See also F.47 F.75,F.100,F.114 JINKS, John Leonard C.113,F.89 JOHNSON, Frank M F.88,F.93 JOHNSON, LeRoy Peter Vernon F.48, F.86, F.87, F.91, F.113 JONES, David Alwyn See also C.119, F.99 F.100 KENDALL, David George D.9 KENDALL, Roy O F.49, F.95, F.106 KETTLEWELL, Henry Bernard Davis See also F.82 C.60 KIRK, William F.114 KOLATAJ, Adam F.50 KURTI, Nicholas F.109 LACK, David

F.90,F.99,F.110

F.116

LANCASHIRE AND CHESHIRE ENTOMOLOGICAL

SOCIETY

LECLERCQ, Jean

LEES, David R C.58,C.96,C.110,C.117,D.22

F.90,F.117

LEES, Frank H C.108

LENTHALL, H B C.109

LEPIDOPTERISTS SOCIETY D.9,F.95,F.101,F.108-F.113

F.116

LEVENE, Howard F.42, F.96, F.107

LEWIS, G F.97-F.100

LEWIS, Kenneth Roderick F.106

LOGOS PRESS LIMITED F.104,F.105

LONGMAN, David J C.110,F.94,F.95

McCONNELL, Richard Bonar F.95

MACFARLANE, Robert Gwyn F.88

McGRAW-HILL BOOK COMPANY F.84, F.94-F.96, F.107

McGUFFIN, W C D.9

McKUSICK, Victor Almon F.114

McLAREN, I A F.106

McLEAN, J A F.113

McMANNERS, John B.6

McWHIRTER, Kennedy Graeme C.50-C.53, C.59, C.60, C.112

C.115,F.51-54,F.82,F.83 F.85-F.90,F.98-F.112,F.114

See also F.95

F.56 MADDOX, John (Royden) F.86 MARKERT, Clement Lawrence F.84 MARSHALL, A J C.110, F.107 MARSHALL, H E F.99,F.104,F.108,F.111,F.117 MAYR, Ernst F.104, F.108, F.114 MEDICAL RESEARCH COUNCIL MENUHIN, Yehudi B.4 F.89, F.90, F.92, F.107 METCALFE, John F.82, F.83, F.88, F.90-F.95 METHUEN & COMPANY LIMITED F.98, F.101, F.104, F.106-F.109 B.2 MICHIE, Donald F.101 MICKLEM, Henry Spedding F.92,F.93 MILLER, Peter Lamont F.108 MONTALENTI, Giuseppe C.113, F.86, F.87 MOURANT, Arthur Ernest F.104 MURARI, Lieutenant Colonel T D.16 MURRAY, J J D.31 NATIONAL GEOGRAPHIC MAGAZINE F.39, F.92, F.93, F.100, F.106 NATURE C.107 NATURE CONSERVANCY B.7 NEEDHAM, Rodney B.9 NEILL, Sir (Francis) Patrick

NEKRUTENKO, Y P	F.95
NELSON, Bertram	F.16
NEUBERGER, Albert	F.113
NEVO, Eviatar	F.83,F.108,F.112,F.116
NEW SCIENTIST	F.96
NUFFIELD FOUNDATION	F.55,F.56,F.113,F.114
O'CONNOR, B T	F.93
OPLER, Paul A	D.9
OWEN, A R George	C.70,F.116
OXFORD UNIVERSITY MEDICAL SOCIETY	F.95,F.100
OXFORD UNIVERSITY PRESS	D.17
PALMEN, Ernst	F.90-F.92
PARKER, R A	F.95
PARKIN, David Thomas	F.117
PAVLOVSKY, Olga	D.27
PEASE, Roger W	F.83
PELHAM-CLINTON, C E	F.106
PENGUIN BOOKS	F.108
PICKERING, Sir George White	C.112
PIMENTEL, David	F.87
PINNOCK, Dudley	F.84,F.86

PLACITO, Peter John	F.57-F.68
PLATT, Austin	F.115
POWELL, Jeffrey R	D.27,F.69
PRICE, J	F.89
PRINGLE, John William Sutton	A.13,F.38,F.84 See also F.55
PROVINE, William B	A.9
PSCHORN-WALCHER, H	F.111
PURNETTA, J C	F.98
QUARTERLY REVIEW OF BIOLOGY	F.112
QUICKELBERGE, C D	F.95
RACE, Robert Russell	C.113,D.17,F.89,F.114,F.115
RAINEY, Reginald Charles	E.8
REMINGTON, Charles Lee	F.87,F.101,F.116
RICHARDSON, R H	C.114,F.86,F.92,F.93
RIDLEY, Nicholas Harold Lloyd	F.70
RILETT, R O	F.94
ROBERTS, John Morris	в.6
ROBERTSON, Forbes William	F.107
ROBSON, Sir Kenneth	A.14
ROTH, Vincent D	F.106

ROTHSCHILD, Hon. Miriam Louisa C.110,D.16,D.22,D.24,E.8 (Hon. Mrs Miriam Lane) F.71-F.74,F.89,F.101,F.104

F.107,F.109

ROWE, P F F.107

ROWSE, Alfred Leslie F.88

ROYAL COLLEGE OF PHYSICIANS A.14

ROYAL ENTOMOLOGICAL SOCIETY F.109,F.110

ROYAL SOCIETY A.8, D.27, F.40-F.42, F.44

F.49,F.81-F.84,F.89,F.90 F.97,F.103,F.107-F.109

F.114,F.115

See also F.50

ROYAL SOCIETY OF HEALTH F.97

RUDMAN, P F.109

SAMSON, C P J F.110

SANDFORD, Sir Folliott Herbert F.83,F.97

SANGER, Ruth Ann (Mrs R R Race) F.89

SCALI, Valerio C.44, C.56, F.75, F.83, F.84

F.87-F.89, F.94-F.99, F.103

F.105-F.114

SCHURR, H R F.115

SCIENCE RESEARCH COUNCIL F.41, F.88, F.92, F.99, F.101

F.108

SCOSSIROLI, R E F.115

SERMONTI, Giuseppe E.3,E.5

SHEPPARD, Philip Macdonald

C.71,C.106,C.108,C.110,C.112 C.116,D.16,D.24,E.3,F.44 F.76-F.80,F.82,F.91,F.92 F.96-F.100,F.103,F.106-F.110

See also F.21, F.117

SHONE, M G T

F.85

SIBTHORP, H M

F.96

SIMMONS, J S G

B.4,F.4

SIMON, John Allsebrook, 1st Viscount

F.4

SIMPSON, John G

F.97,F.106

SOCIETY FOR THE STUDY OF EVOLUTION

F.104,F.107,F.109

SPARROW, John Hanbury Angus

D.27,F.39

STERN, Curt

See E.7

STEVENS, Roger

F.92

STONE, Wilson Stuart

C.114,F.86,F.87 See also F.95

STUGREN, Bogdan

F.89

SUOMALAINEN, Esko

C.118,F.95,F.96,F.101,F.104-F.109

F.112,F.113

SWANN, Michael Meredith, Baron

F.44,F.109

THODAY, John Marion

F.44,F.85,F.102,F.108

THOMAS, Keith Vivian

в.6

THOMAS, Trevor

F.20

F.106 THOMSON, George D.16,F.104 TINBERGEN, Nikolaas C.116, C.118, D.16, F.81 TURNER, John Richard George F.89-F.92, F.94-F.98, F.103 F.108, F.110, F.111, F.113 E.8 VAN EMDEN, Helmut Fritz F.39-F.41 VAUGHAN, Dame Janet (Maria) F.116 vom BROCKE, Hans H WADHAM COLLEGE OXFORD B.10 WALLACE, Bruce F.87 WEATHERALL, Sir David (John) C.113,F.108 WEIDENFELD & NICHOLSON D.30 WEIJER, J F.95 WENDEN, D J B.9 WHATLEY, James A Jr F.82 WILSON, Bryan B.2, B.4, B.7, B.8, F.62 WILSON, K H F.95 WISE, Peter F.92 WOOTON, Anthony F.101, F.107

F.109

WYNNE-EDWARDS, Vero Copner

YOUNG, John Zachary F.92

ZENITH MAGAZINE F.102