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Catalogue of the papers and correspondence of

Patricia Hannah Clarke FRS

(b. 1919)

by Timothy E. Powell and Peter Harper
NCUACS catalogue no. 120/6/03

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Title: Catalogue of the papers and correspondence of Patricia
Hannah Clarke FRS (b. 1919), biochemist

Compiled by: Timothy E. Powell and Peter Harper

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Professor Clarke in 2002.

OUTLINE OF THE CAREER OF PATRICIA HANNAH CLARKE

Patricia Hannah Green was born in Pontypridd, South Wales on 29 July 1919. She attended Coedpenmaen Elementary School and in 1930 was awarded a scholarship to the County Grammar School. She did not take this up since in the same year she had been awarded a Foundation Scholarship to Howell's School Llandaff. She went up to Cambridge in 1937 to read Natural Sciences, having obtained a place at Girton College. Later she was awarded a scholarship in Chemistry. She studied Biochemistry for Part II of the Natural Sciences Tripos but in the summer of 1940 she relinquished a research scholarship in order to take up war work. Her first post was in a branch of the Armament Research Department of the Ministry of Supply that had been evacuated to the University of Wales in Swansea. Later she was transferred to Woolwich Arsenal to continue her work on new explosives. In 1944 she was able to leave Woolwich and to take a post as Research Assistant to B.C.J.G. Knight at the Wellcome Research Laboratories in Beckenham, Kent. His work at that time was concerned with pathogenic anaerobic bacteria that cause severe infections of war wounds.

In 1940 she married Michael Clarke. He joined the Army in 1940 and became a Tank Commander, serving in the Western Desert, India and the Middle East. When the war ended he returned to England and after being demobilised he became a documentary film director. They had two sons; Francis born in 1947 and David born in 1949. Clarke continued to be involved in microbial biochemistry but decided to take a few years away from full-time employment. In 1951 she joined S.T. Cowan to work part-time at the Medical Research Council National Collection of Type Cultures based at the Central Public Health Laboratory in Colindale, London. This was a productive period during which she devised micromethods for identification of bacteria using enzyme reactions. When the MRC suggested she should work full-time she thought that in that case she might move on.

In 1953 Clarke was appointed to an Assistant Lectureship in the Department of Biochemistry at University College London with a special responsibility for Microbial Biochemistry. She remained at University College London for the rest of her career, being promoted to Lecturer in 1956, Reader in 1966 and Professor in 1974. On retirement in 1984 she was appointed Professor Emeritus of the University of London. In 1996 she was elected an Honorary Fellow of University College. She was

also Honorary Lecturer in the Genetics Department of Monash University Australia in 1971, Honorary Professorial Fellow of the University of Wales Institute of Science and Technology 1994-1987 and Royal Society Kan Tong-Po Professor at the Chinese University of Hong Kong 1986.

Clarke had many other professional commitments. She served on the Council of Society for General Microbiology 1960-1970, the Executive Committee of the Biochemical Society 1978-1981 and the Council of the Freshwater Biological Association 1980-1984. Clarke also was a member of the Science Board of the Science Research Council (1979-1984), the Governing Body of Wye College (1980-1986), the Council of the London School of Hygiene and Tropical Medicine (1982-1984) and the Council of the University of Bath (1987-1993). Other commitments included the British National Bibliographic Research Fund 1990-200 and, locally, the Council of Cheltenham Ladies College (1984-1990) and Board of Governors of Deer Park School, Cirencester 1988-1999.

In correspondence with C.M.C. Haines regarding her entry in Haines's book *International Women in Science* (Oxford, 2001), Clarke summarised her scientific work as follows: 'Clarke's main research, with her students and colleagues, was on the properties and the evolution of bacterial enzymes. By selecting mutants with the ability to grow on novel substrates they obtained strains producing altered enzymes, altered transport systems and altered regulatory systems. They were the first to show that a single site mutation could result in altered substrate specificity. They also showed that a range of novel enzymes could evolve from successive single site mutations. She also collaborated with biochemical engineers in research on methods for producing and purifying bacterial enzymes for industrial use and became involved in developments in biotechnology'.

For her contributions to microbial biochemistry, Clarke was elected to the Fellowship of the Royal Society in 1976 (Leeuwenhoek Lecture 1979), serving on Council and as Vice-President 1981-1982.

DESCRIPTION OF THE COLLECTION

The material in this collection is presented in the order given in the list of contents. It covers the period 1963 to 2002, although the bulk of the material dates from the 1980s and 1990s.

Section A, Biographical, includes autobiographical material compiled and assembled in connection with her Personal Record as a Fellow of the Royal Society, a full curriculum vitae and an transcript of her video-tape interview for the Biochemical Society. There is also documentation of a number of the later honours she was accorded. Clarke's interest in school education in general and science teaching in particular, is documented, with papers relating to Deer Park School Cirencester of which Clarke was a Governor 1988-1999. Her concern for education is also reflected in her

correspondence with local and national politicians, although other topics are covered including tobacco advertising and the treatment of asylum seekers.

Section B, Women in Science, documents both Clarke's interest in the historical contribution of women scientists, and her concern to ensure that more women became scientists and that their career prospects were the same as those of their male colleagues. The material, which includes correspondence, notes, printed reports and photocopied background material, was assembled by Clarke in connection with a number of specific activities: her 1991 lecture 'Women in Science at University College 1878-1978'; a Royal Society meeting on 'Women in Science and Technology: opportunities for change?', 28 May 1993; her service on the Committee on Women in Science, Engineering and Technology established in 1993 by William Waldegrave MP, Minister for Public Service and Science, whose report 'The Rising Tide' was published in 1994; and a meeting on Women in Science at the Royal Society, 27 March 2001.

Section C, Publications and lectures, documents a few of Clarke's publications from the 1980s on. The largest components relate to her Royal Society Biographical Memoirs of colleagues Roger Yate Stanier and Malcolm Douglas Lilly and her entry on Muriel Robertson for the *New Dictionary of National Biography*. There is also an incomplete set of offprints of her work. Lectures material includes documentation of her 1979 Royal Society Leeuwenhoek Lecture 'Experiments in microbial evolution: new enzymes, new metabolic activities' and the 19th J.D. Bernal Lecture on 'New directions in biology: basic science and biotechnology', delivered at Birkbeck College London, 1988.

Section D, Societies and organisations, is not extensive. There is material relating to eight UK and overseas organisations, including (UK) the British National Bibliographical Research Fund and the Royal Society, chiefly its Archives Working Group and Library Committee, and (overseas) the Palm Oil Research Institute of Malaysia and the Research Grants Council of Hong Kong. The material spans 1975-2001.

Section E, Visits and conferences, covers some of Clarke's travel and attendance at meetings over the period 1971-1998, although the earlier entries are later (c 1998) typescript accounts compiled by Clarke from her diary entries. Of particular significance is the documentation of her visits to the Far East through the 1970s, 1980s and 1990s, including Singapore, Malaysia (in connection with the Palm Oil Research Institute) 1990-1992, China and Hong Kong. There is also material relating to her involvement in two 1992 meetings marking the centenary of the birth of J.B.S. Haldane.

Section F, Correspondence, is the largest in the collection. The bulk of this material was arranged by Clarke by group of correspondents and then further subdivided by individual correspondent, and it has been retained in this original order. There are groups of correspondence with her fellow researchers at University College London, with colleagues in the UK and with fellow scientists in the

USA and Europe. Few correspondents are represented by extended exchanges of letters, the exceptions being R.E. Drew and B.W. Holloway. Other correspondents include S. Brenner, H.L. Kornberg, R.D. Sager and R.Y. Stanier.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Professor Clarke for making the papers available and for information and advice received.

Timothy E. Powell
Peter Harper
Bath, June 2003

SECTION A	BIOGRAPHICAL, A.1-A.33	1976-2001
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A.1-A.17 BIOGRAPHICAL AND
 AUTOBIOGRAPHICAL

A.18, A.19 PERSONAL CORRESPONDENCE

A.20-A.31 EDUCATION ISSUES

A.32, A.33 POLITICS

A.1-A.17	BIOGRAPHICAL AND AUTOBIOGRAPHICAL	1977-2001
-----------------	--	------------------

A.1, A.2	'CV Personal Record for Royal Society etc'	1999
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Contents of Clarke's envelope so inscribed.

Autobiographical account compiled by Clarke for the author of her Biographical Memoir.

A.1	'Personal Record'
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37pp typescript autobiographical account.

A.2	Curriculum vitae; list of Clarke's Ph.D. students with notes on their careers
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A.3-A.6	Autobiographical video recording for the Biochemical Society	1993-1995
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As part of the Biochemical Society's programme of video-taped interviews with leading biochemists, Clarke was interviewed by J. Gareth Morris at University College London on 10 May 1994.

A.3, A.4	'Video recording for the Biochemical Society 1994 (1)'	1994
----------	--	------

Draft typescript text with later manuscript additions.

2 folders.

Biographical

A.5	<p>'Correspondence re Biochemical Society video recording 1994 (2)'</p> <p>Correspondence <i>re</i> arrangements for interview and arising therefrom.</p>	1993-1995
A.6	Typescript outline of contents of video recording	1994
A.7	Lists of 'Published papers 1947-1992' and 'Some key papers and reviews'	1992
A.8	<p>Two autobiographical notes</p> <p>These typescript notes, written in July and August 2001 refer respectively to Clarke's biochemistry students from 1960 (prompted by receiving a postcard from one of the former students), and to the circumstances behind her appointment to a Chair at University College London.</p>	2001
A.9	<p>Typescript accounts of research</p> <p>1980 account prepared for 'Academic innovation' series on research at University College London during the 1970s; 1981 reports prepared for visit to UCL of Science Research Council Visiting Group.</p>	1980, 1981
A.10	<p>Biographical entry prepared for C.M.C. Haines, <i>International Women in Science: a Biographical Dictionary to 1950</i> (ABC-Clio: Oxford, 2001)</p> <p>Correspondence; biographical information sent to Haines; draft of entry.</p>	2000-2001
A.11	<p>'"Secret" life of scientist Pat'</p> <p>Photocopy of profile by Di Alexander, <i>Wilts & Glos. Standard</i>, 1 March 2001.</p>	2001
A.12	Letter <i>re</i> post of Principal, Queen Elizabeth College, University of London	1977

Biographical

- | | | |
|------------|---|------------|
| A.13 | Award of Leverhulme Trust Emeritus Fellowship

Correspondence; reports on grant.

Clarke was awarded a grant for research on gene structure and function in <i>Pseudomonas aeruginosa</i> . | 1984, 1987 |
| A.14 | Correspondence <i>re</i> nomination of Clarke for appointment as Dame Commander of the British Empire

Clarke declined the honour. A later (1985) note records her reasons for so doing and the note is annotated in 1998 with an indication that Clarke had not altered her views. | 1984, 1985 |
| A.15 | Award of Honorary Degree, University of Kent at Canterbury, July 1984

Brief correspondence <i>re</i> arrangements. | 1984 |
| A.16 | Award of Honorary Degree, Council for National Academic Awards, May 1990

Correspondence <i>re</i> arrangements. | 1989-1990 |
| A.17 | Election to Honorary Membership, Society for General Microbiology, 1996

Biographical outline from 'SGM Quarterly', February 1997. | 1997 |
| A.18, A.19 | PERSONAL CORRESPONDENCE | 1976-2000 |
| A.18 | 'Personal misc correspondence'

Letters of congratulation, personal news, etc. In chronological order. | 1976-2000 |

Biographical

A.19	Correspondence with Sir Frederick Warner and R.F. Bud, Science Museum, <i>re</i> preservation of historic acetone fermentation plant at former Royal Naval Cordite Factory, Holton Heath, Dorset	1994
A.20-A.31	EDUCATION ISSUES	1978-1997
	Clarke had a longstanding concern for the quality of school education. She supported the comprehensive system of education and had a particular interest in science teaching in schools. She served as a Governor (Vice-Chairman) of Deer Park School, Cirencester 1988-1999 and was chairman of its curriculum committee.	
A.20-A.25	National school education policies	1978-1997
A.20	Correspondence Chiefly correspondence with Secretaries of State of the Department of Education and Science (successively the Department for Education and the Department for Education and Employment) <i>re</i> issues in comprehensive school education.	1991-1997
A.21-A.24	Newspaper cuttings and other background information on education policy 4 folders.	1978-1996
A.25	Correspondence <i>re</i> education spending in Gloucestershire	1992-1995
A.26-A.29	Deer Park School, Cirencester	1992-c1999
A.26	'Science in schools', 2pp typescript account by Clarke of her association with Deer Park School; miscellaneous material <i>re</i> her last meeting as a governor	c 1999

Biographical

- | | | |
|------------|---|-----------|
| A.27 | Opening of new Science Block, 1991 | 1991 |
| | <p>At Clarke's suggestion Richard Dawkins, Reader in Zoology, University of Oxford, was asked to perform the opening ceremony. He accepted and the building was opened on 21 April.</p> <p>Correspondence with Dawkins; Clarke's words of welcome; photocopies of newspaper coverage.</p> | |
| A.28, A.29 | School science projects | 1992-1997 |
| | <p>2 folders.</p> <p>Deer Park School, partly prompted by Clarke, initiated a number of science projects. One, in conjunction with the University of Bath, was a large scale study of ant behaviour (1994).</p> | |
| A.30 | Stratford-upon-Avon Grammar School for Girls | 1993 |
| | <p>Correspondence and papers <i>re</i> opening of school science laboratory by Clarke, 30 September 1993.</p> | |
| A.31 | Miscellaneous correspondence on education issues | 1993-1996 |
| A.32, A.33 | POLITICS | 1986-1999 |
| | <p>Correspondence with various government ministries and Clarke's local MP <i>re</i> various issues. In chronological order.</p> <p>Clarke was a long-standing member of the Labour Party.</p> | |
| A.32 | 1986-1992 | |
| | <p>Includes Clarke's criticisms of use of British bases for US attack on Libya, 1986, and of proposal to close remaining UK coal mines, 1992.</p> | |

Biographical

A.33

1993-1999

Includes Clarke's support for a ban on tobacco advertising 1993-1995, and criticisms of treatment of asylum seekers 1995.

SECTION B

WOMEN IN SCIENCE, B.1-B.48

1979-2002

This is the one of the larger sections in the collection and documents both Clarke's interest in the historical contribution of women scientists and her concern to ensure that more women became scientists and that their career prospects were the same as those of their male colleagues.

The material was chiefly assembled by Clarke in connection with a number of specific activities: her 1991 lecture 'Women in Science at University College 1878-1978'; a Royal Society meeting on 'Women in Science and Technology: opportunities for change?', 28 May 1993; her service on the Committee on Women in Science, Engineering and Technology established by William Waldegrave in 1993, whose report 'The Rising Tide' was published in 1994; and a meeting on Women in Science held at the Royal Society, 27 March 2001.

The bulk of the material was found in Clarke's envelopes. These formed a sequence running from A1 to F. This arrangement has been retained and the inscriptions on the envelopes are reproduced in the catalogue entries. At the end of this sequence is material found separately.

B.1-B.3

'Women in Science A1 [...] General Reports'

c 1990s

Printed and photocopied typescript reports, papers etc.

3 folders.

At B.1 is Clarke's typescript list of reports in A1. The list does not include all the material found.

B.4-B.7

'Women in Science A2. Scientists'

c 1990s

Printed and photocopied typescript reports, papers etc on individual women scientists.

B.4

Individual women scientists, A.-H.

Material on M. Anning, A. Arber, J.B. Burnell, C. Haslett, D.M.C. Hodgkin.

Women in science

B.5	Individual women scientists, I.-S. Material on E.M. Inglis, K. Lonsdale, M. Rothschild, M. Somerville, M. Stephenson.	
B.6	General contributions Material on contributions by women scientists to particular scientific disciplines.	
B.7	Academic performance of women at university Letter from N.G. McCrum, enclosing copy of article, with Clarke's reply.	1994
B.8-B.11	'Women in Science B1. UCL Historical' Material on position of women academics, particularly scientists, at University College London. At B.8 is Clarke's typescript list of papers in B1 and B2. The list does not include all the material found.	1979-1991
B.8	Typescript drafts and printed copy of Clarke's lecture 'Women in Science at University College 1878-1978'	1991
B.9	Correspondence <i>re</i> Clarke's lecture 'Women in Science at University College'	1991
B.10	Draft report and related material on equal opportunities at University College London	1984
B.11	Printed and photocopied material on women scientists at UCL	c 1979
B.12-B.15	'Women in Science B2. UCL scientists'	c 1990s

Women in science

- B.12 Lists of women UCL science graduates 1878-1905 and women Fellows of the Royal Society; manuscript notes and photocopied material on women scientists
- B.13, B.14 Printed and photocopied material relating to Kathleen Lonsdale

2 folders.
- B.15 Photocopied material relating to Agnes Arber
- B.16-B.19 'Women in Science C. Meeting at Royal Society 1993' 1993

Papers *re* Royal Society meeting on 'Women in Science and Technology: opportunities for change?', 28 May 1993.

Clarke chaired the panel discussion at the meeting and helped compile the final report. One of the features was a questionnaire handed out to those present; the results were analysed in the report.
- B.16 Programme; handout presented by J.B. Burnell
- B.17 Spiral bound final report of the meeting
- B.18 Typescript reports on the meeting by J. Mason, P. Nuttall and C. Turley
- B.19 Questionnaires on women in science
- B.20-B.24 'Women in Science D1. The Rising Tide. Publications' 1992-1994

This material and that in D2 (B.25-B.28) relate to Clarke's service on the Committee on Women in Science, Engineering and Technology, set up by W. Waldegrave MP, Chancellor of the Duchy of Lancaster and Minister for Science, in 1992. It was established following on from the government White Paper 'Realising our potential: a strategy for Science, Engineering and Technology' Cmnd /...

Women in science

/...	2250 (1993). The Committee's report 'The Rising Tide' was published in 1994.	
B.20	Copy of 'Realising our potential: a strategy for Science, Engineering and Technology' Cmnd 2250 (1993)	1992
B.21	Correspondence and papers arising from White Paper Includes letter from N.J. Lane to Clarke seeking her views on women in science, with Clarke's reply, September 1992.	1992-1993
B.22	Copy of 'The Rising Tide. A report on Women in Science, Engineering and Technology'	1994
B.23	Spiral bound notebook labelled 'PH Clarke OST Women in Science 1993' Manuscript notes from launch of the report in February 1994.	1993
B.24	Papers on the response to the report Includes 'Women in Science, Engineering and Technology', the official government response, and press-releases on government measures arising therefrom.	1994
B.25-B.28	'Women in Science D2. The Rising Tide. OST Committee correspondence' Chiefly papers of the Committee and its work; press cuttings on the reception of the report.	1993-1994
B.25	'Issues to be addressed'; minutes of meetings of the Committee	1993-1994
B.26	Comments on and section of draft report	1993

Women in science

- | | | |
|-----------|--|-----------|
| B.27 | Newspaper and magazine coverage of the launch of the report

Also includes newspaper cuttings <i>re</i> the broader issue of women in science. | 1994 |
| B.28 | Letter <i>re</i> activities of Cornwall Women in Engineering Science & Technology

With enclosures and Clarke's reply. | 1994 |
| B.29-B.32 | 'Women in Science E. Royal Society'

The material chiefly concerns the Royal Society's celebration of the fiftieth anniversary of admission of the first women to the Fellowship of the Royal Society in 1945. | 1992-1995 |
| B.29 | Correspondence <i>re</i> 'The admission of the first women to the Royal Society of London' by J. Mason, <i>Notes & Records of the Royal Society</i> , vol 46 (1992)

Includes offprint. | 1992 |
| B.30 | Programme for exhibition on 'Women in Botany: from Drawing Room to Laboratory' | 1994 |
| B.31 | Royal Society meeting on 'The Rising Tide - the next wave', Royal Society, London, 19 April 1995

Letter to Clarke <i>re</i> the programme; list of participants; exhibition brochure. | 1995 |
| B.32 | 'The women Fellows' jubilee' by J. Mason

16pp typescript. | 1995 |
| B.33-B.35 | 'Women in Science F. Women in Science Newsletter. AWISE [Association for Women in Science and Engineering]' | 1992-1998 |

Women in science

B.33	Women and Science newsletters Issues 1-11.	1992-1994
B.34, B.35	Association for Women in Science and Engineering and related material 2 folders.	c 1993-1998
B.36-B.38	'Women' Contents of Clarke's folder so inscribed divided into three for ease of reference.	1996-1998, n.d.
B.36	Reports from the Office of Science and Technology's Development Unit on Women in Science, Engineering and Technology	1996
B.37	Printed material on women in science and academia	1998
B.38	Miscellaneous typescript and manuscript material	n.d.
B.39-B.48	Material on women in science found separately	1987-2002
B.39	Miscellaneous correspondence	1987-1997
B.40	Science Policy Support Group Policy Analysis Forum on Women in Science, London, 13 March 1992 Programme; list of participants; information; Clarke's manuscript notes on proceedings	1992
B.41	Correspondence <i>re</i> Dorothy Hodgkin Fellowships Clarke served on the Royal Society's Dorothy Hodgkin Fellowship selection panel B from 1995 to 1999 when she resigned.	1995, 1999

Women in science

B.42	Correspondence with J. Mason and H. Rose Correspondence <i>re</i> inaccuracies in Rose's Foreword to <i>Women, Science and Medicine 1500-1700</i> .	1998
B.43-B.45	Royal Society meeting on Women in Science, Royal Society, London, 27 March 2001	2001
B.43	Invitation; programme; information; Clarke's manuscript notes on proceedings	
B.44, B.45	Printed background information on schemes to promote women in science 2 folders.	
B.46	Information about opportunities for women scientists in the European Molecular Biology Organisation	2002
B.47	Newspaper and magazine cuttings The cuttings relate to women in science and opportunities for women in other careers.	
B.48	Miscellaneous material	n.d.

SECTION C	PUBLICATIONS AND LECTURES, C.1-C.54	1972-2001
C.1-C.43	PUBLICATIONS	1972-2001
C.1, C.2	<p>'Introduction: <i>Pseudomonas aeruginosa</i>, an opportunist pathogen', in <i>Pseudomonas Infection and Alginates: biochemistry, genetics and pathology</i>, eds. P. Gacesa and N.J. Russell (London: Chapman & Hall, 1990).</p> <p>This planned book arose from a workshop on Extracellular virulence factors of <i>Pseudomonas aeruginosa</i>, held at Gregynog Hall, University of Wales, 15-17 September 1986. See also E.18.</p>	1987-1989
C.1	<p>Draft of chapter</p> <p>16pp typescript.</p>	1988
C.2	Correspondence with editors and publishers	1987-1989
C.3-C.5	<p>'Microbes for the control of pollution'</p> <p>144pp typescript.</p> <p>3 folders.</p> <p>This was found in an envelope inscribed '[...] Commissioned 1985 by the ILB. Deposited not published. Invited by B.R. Rabin'.</p>	1985
C.6-C.11	<p>'Regulation of Expression of Microbial Genes', in <i>Further milestones in biochemistry</i>, eds M.G. Ord and L.A. Stocken, Greenwich, Conn. JAI Press, 1997, pp 234-273</p>	1996-1997
C.6	45pp typescript draft, May	1996
C.7	References, tables, figures for preceding draft	
C.8	46pp copy edited typescript	1997

Publications and lectures

C.9	References, tables, figures for copy edited draft	1997
C.10	Proof copy	1997
C.11	Correspondence etc.	1996-1997
C.12-C.14	'Muriel Robertson 1883-1973', <i>New Dictionary of National Biography</i>	1974-1999
C.12	Typescript draft	1996
C.13	Correspondence with editors and others	1994-1999
C.14	Background information on Robertson	1974-1997
C.15-C.19	'Roger Yate Stanier 1916-1982', <i>Biographical Memoirs of Fellows of the Royal Society</i> vol 32 (1986) See also F.73.	1983-1986
C.15	Off-print of the Memoir	
C.16	Correspondence with friends and colleagues of Stanier Letters to Clarke giving information about and reminiscences of Stanier.	1983
C.17	Background information on Stanier Includes 4pp typescript on Stanier by W.C. Evans	1983
C.18	Letters commenting on Clarke's draft	1985

Publications and lectures

C.19	Letters of appreciation to Clarke	
C.20-C.31	<p>'Malcolm Douglas Lilly 9 August 1939-18 May 1998', <i>Biographical Memoirs of Fellows of the Royal Society</i> vol 46 (2000)</p> <p>Lilly undertook postgraduate reseach under Clarke at University College London 1959-1962. He remained at UCL for the rest of his career, being appointed Professor of Biochemical Engineering in 1979.</p>	1998-2001
C.20	26pp typescript draft	2000
C.21	<p>Draft bibliography</p> <p>30pp typescript.</p>	2000
C.22	Off-print of Memoir	2000
C.23	<p>Correspondence and papers from the Royal Society</p> <p>Includes invitation to write the memoir and copies of information on Lilly held by the Royal Society, and later correspondence <i>re</i> publication.</p>	1998-2001
C.24	<p>Background information</p> <p>Includes copy of the <i>Guardian</i> obituary of Lilly (18 June 1998), Lilly's curriculum vitae; transcript of autobiographical tape-recording; etc.</p>	1998-2000
C.25	Clarke's typescript and manuscript notes on Lilly's life, the structure of the memoir; sources to be consulted.	1998-1999
C.26	Clarke's lists of friends and colleagues of Lilly	

Publications and lectures

C.27-C.29	Correspondence from friends and colleagues of Lilly Letters to Clarke giving information about and reminiscences of Lilly. Individual exchanges of correspondence are numbered by Clarke in a sequence from 3-44 (not complete).	1999-2000
C.27	3-29	
C.28	31-37	
C.29	41-44 and others Includes correspondence with Peter Dunnill, originally working as a co-author of the memoir.	
C.30	Correspondence with Lilly's widow and letters of appreciation from friends and colleagues on completion of the memoir	1998-2001
C.31	Spiral bound notebook Labelled on front cover 'Malcolm Lilly RS Biog Memoir', used as a diary for work in progress on the memoir.	1998-2001
C.32	'An experiment in enzyme evolution: studies with <i>Pseudomonas aeruginosa</i> amidase', with R.E. Drew, <i>Bioscience Reports</i> vol 8 (1988) Correspondence with editors.	1986-1988
C.33-C.35	Review of: M. Allaby, <i>Facing the future: the case for science</i> (London: Bloomsbury, 1995), in <i>Science Progress</i> This was originally entitled 'Beyond Doom: the case for science'. Much of the material is correspondence with publishers and M. Allaby re a reference queried by Clarke.	1995

Publications and lectures

- | | | |
|------------|---|-----------|
| C.33 | 2pp typescript; 2pp earlier typescript draft annotated 'Replaced' | |
| C.34 | Correspondence with <i>Science Progress</i> | |
| C.35 | Correspondence with publishers and author | |
| C.36 | Review of: B. Gates, <i>Kindred Nature: Victorian and Edwardian Women Embrace the Living World</i> (Chicago, 1998), in <i>Notes and Records of the Royal Society</i>

2pp typescript; proof copy. | 1999 |
| C.37-C.42 | Editorial correspondence

Arranged alphabetically by publishing house or journal. | 1984-1994 |
| C.37 | Chapman and Hall

Refereeing. | 1988 |
| C.38 | <i>Nature</i>

Refereeing. | 1990 |
| C.39 | Pergamon Press

Request for advice. | 1988 |
| C.40, C.41 | <i>Science Progress</i>

Correspondence and papers re editorial policy, contributors, editorship.

2 folders.

Clarke served as an editor of this journal, jointly to 1989, then sole editor to 1994. | 1984-1994 |

Publications and lectures

C.42	<i>Trends in Biotechnology</i> Refereeing.	1990
C.43	Offprints of articles by Clarke Not a complete set.	1972-2000
C.44-C.54	LECTURES	1979-1998
C.44	'Experiments in microbial evolution: new enzymes, new metabolic activities', Royal Society Leeuwenhoek Lecture, 8 November 1979 Correspondence <i>re</i> arrangements; notice; abstract.	1978-1979
C.45	'How to evolve a new microbe. A case study in enzyme evolution', 1982 20pp typescript + tables and figures; manuscript list of slides. Manuscript note on front page 'Originally asked for manuscript for publication but did not follow up'.	1982
C.46	'The scientific foundations of modern biotechnology', 2nd Encontro Nacional de Biotechnologia, Porto, Portugal, 1984 30pp typescript + figures. Manuscript note on front page 'Asked for manuscript for publication but did not publish after all'.	1984
C.47	'Tailoring bacterial enzymes', International Symposium on Microbiology in the Eighties, Singapore, May 1985 15pp typescript + figures.	1985

Publications and lectures

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|------------|---|-----------|
| C.48 | 'Experiments on the evolution of bacteria with novel enzyme activities (Experimental evolution)', invited lecture at the Karolinska Institute, Stockholm, Sweden, 1985

22pp typescript. | 1985 |
| C.49 | 'Further Education Colleges and Polytechnics. The Scope and Implications', Department of Education and Science Invitation Conference on Biotechnology, Keble College, Oxford, 19-20 March 1986

9pp typescript.

See also E.17. | 1986 |
| C.50 | 'The ubiquitous pseudomonads', European Molecular Biology Workshop, Geneva, Switzerland, September 1986

17pp typescript + captions for figures. | 1986 |
| C.51, C.52 | 'New directions in biology: basic science and biotechnology', 19th J.D. Bernal Lecture, Birkbeck College London, 12 May 1988 | 1987-1988 |
| C.51 | 29pp typescript draft + notes | 1988 |
| C.52 | Correspondence <i>re</i> arrangements; background material | 1987-1988 |
| C.53 | 'Protein engineering in vivo', Anniversary Congress of University of Groningen on Prospects in Protein Engineering, The Netherlands, 14-18 August 1989

Covering letter with 4pp typescript abstract; 7pp typescript with manuscript corrections; list of slides. | 1989 |
| C.54 | 'The Human Genome Project', talk to Cirencester Science and Technology Society, 25 February 1998

13pp typescript; copies of figures for overhead transparencies. | 1998 |

SECTION D	SOCIETIES AND ORGANISATIONS, D.1-D.25	1975-2001
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D.1-D.7	BRITISH NATIONAL BIBLIOGRAPHICAL RESEARCH FUND
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D.8	PALM OIL RESEACH INSTITUTE OF MALAYSIA
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D.9-D.14	RESEARCH GRANTS COUNCIL OF HONG KONG
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D.15-D.20	ROYAL SOCIETY
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D.21, D.22	SOCIETY FOR THE PROTECTION OF LEARNING AND SCIENCE
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D.23	UNIVERSITY OF BATH
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D.24	UNIVERSITY OF KARACHI
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D.25	WYE COLLEGE, UNIVERSITY OF LONDON
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D.1-D.7	BRITISH NATIONAL BIBLIOGRAPHICAL RESEARCH FUND	1975-2001
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This Fund was established in 1975 with funds from the British Library following the dissolution of the Council of the British National Bibliography Ltd (1949-1975). It supported bibliographic and related research in the UK. The Fund was taken over by Resource, the Council for Museums, Archives and Libraries, in 2000 and abolished in 2001.

Clarke represented the Royal Society on the Fund's Committee from 1991 and opposed its abolition.

D.1-D.3	Minutes of meetings	1990-2001
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Also includes at D.1 letter of 18 October 1990 welcoming Clarke to the Committee.

Societies and organisations

D.1	Minutes	1990-1994
D.2	Minutes	1995-1997
D.3	Minutes	1998-2001
D.4-D.7	Correspondence and papers <i>re</i> final years of the Committee Includes lobbying to try to ensure the survival of the Committee.	1998-2001
D.4	1998-1999	
D.5	2000	
D.6	2001 Includes report, for the record, on the work of the Fund written by Clarke for the Royal Society and brief note on her involvement with the Fund.	
D.7	Background information	1992, 1998
D.8	PALM OIL RESEACH INSTITUTE OF MALAYSIA Correspondence and papers <i>re</i> meetings of the Subcommittee. Clarke served on the Biology Subcommittee of the Institute's Programme Advisory Committee 1990-1992. In connection with her membership she made a number of visits to Malaysia, some of which are documented further in section E.	1989-1992

Societies and organisations

D.9-D.14 RESEARCH GRANTS COUNCIL OF HONG KONG 1988-2000

Correspondence and papers *re* assessment of projects.

Clarke evaluated research projects for the Research Grants Council of Hong Kong.

D.9 Grant proposals 1988, 1991

D.10 Work on indigo and sulfur black dye 1993

D.11 Work on *Bacillus subtilis* 1993

D.12 Work on *Bacillus subtilis* cloning 1998

D.13 Work on cultured mycelial products of mushroom species 1999

D.14 Work on cultured mushroom mycelia 2000

D.15-D.20 ROYAL SOCIETY 1985-1997

The material, which is not extensive, chiefly documents Clarke's association with the Royal Society's Library Committee and its Working Group on Archives Policy.

Clarke was elected to the Fellowship of the Royal Society in 1976. She was on Council and a Vice-President 1981-1982 and served on a number of committees including the Library Committee 1980-1990 (Chairman 1983-1990) and its Working Group on Archives Policy (Chairman 1985-1990), the Notes & Records Editorial Advisory Board 1989-1997, the Research Grants Scheme Board 1997-1999, and the Advisory Committee to the National Cataloguing Unit for the Archives of Contemporary Scientists 1987-1997.

Societies and organisations

D.15, D.16	Archives Working Group	1985-1989
D.15	Invitation to serve, 1985; report, 1988	1985, 1988
D.16	Reports	1988, 1989
D.17-D.19	Library Committee	1990
D.17	Minutes of Clarke's last meeting as chairman	1990
D.18	'The Library of the Royal Society' 12pp typescript annotated '1990 for Library Committee'.	1990
D.19	Correspondence and papers <i>re</i> history of the Royal Society Library Clarke wrote the Foreword to <i>The Library and Archives of the Royal Society</i> by M.B. Hall (London: Royal Society, 1992).	1992
D.20	Miscellaneous correspondence	1987-1997
D.21, D.22	SOCIETY FOR THE PROTECTION OF LEARNING AND SCIENCE Clarke was invited to become a member of the Council of Management of the Society in 1986. She served to 1999.	1986-1999
D.21	Photocopy of invitation to serve, 1986; miscellaneous correspondence 1992-1999	1986-1999
D.22	Minutes of meetings	1993-1999

Societies and organisations

D.23	UNIVERSITY OF BATH	1993-1996
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Correspondence *re* Council service.

Clarke served on the Council of the University of Bath as a lay member to 1993.

D.24	UNIVERSITY OF KARACHI	1991-1993
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Acting as external examiner

D.25	WYE COLLEGE, UNIVERSITY OF LONDON	1986
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Letters *re* Clarke's resignation as a University of London representative on the Governing Body of Wye College.

SECTION E	VISITS AND CONFERENCES, E.1-E.36	1971-1998
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The material includes later accounts prepared by Clarke in or around 1998.

E.1	Visit to Australia 1971	c 1998
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Clarke's typescript accounts, based in part on her diary records, of her travels in the USA, New Zealand and Australia.

Clarke spent her sabbatical in 1971 working with Bruce Holloway in his laboratory in the Department of Genetics, Monash University, Australia. She travelled via the USA, where she visited colleagues, and also gave some lectures in New Zealand.

E.2	Clarke's later typescript accounts of visits to Singapore and Malaysia during the 1970s, 1980s and 1990s	c 1998
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E.3	Discussion Meeting on New Horizons in Industrial Microbiology, Royal Society, London, 20-21 June 1979	1979
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Programme; correspondence arising.

Clarke spoke on 'Microbiology and pollution: the biodegradation of natural and synthetic organic compounds'.

E.4-E.6	Joint Royal Society/Science and Engineering Research Council visit to Japan, 14-24 April 1982	1984, 1988
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Clarke was one of two Royal Society representatives (with Sir James Baddiley).

E.4	Report to the Royal Society	1982
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E.5, E.6	Clarke's typescript report on visit	1982
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The report gives, firstly her personal account of the visit and, secondly, her reports on visits to individual science and technology institutions in Japan.

2 folders.

Visits and conferences

E.7	Meeting on Pseudomonas Genetics and their Biosurface Phenomenon, Warren Spring Laboratory, Stevenage, Hertfordshire, 14 October 1985	1985
	Letter <i>re</i> arrangements, agenda; list of participants.	
E.8-E.10	4th General Assembly of the International Foundation for Science, Rabat, Morocco, 15-18 October 1984	1984-c 1998
	Clarke attended as the official UK delegate on behalf of the Royal Society.	
E.8, E.9	Papers for the General Assembly	1984
	2 folders.	
E.10	1988 booklet on the IFS; note by Clarke on her participation at the General Assembly, c 1998.	1988, c 1998
E.11-E.16	Visit to Hong Kong and China, January-February 1986	1984-1990
	Clarke was invited to visit the Chinese University of Hong Kong (CUHK) on the Kan Tong Po Visiting Professorship Scheme. She gave a series of seminars to the Departments of Biology and Biochemistry on work on Pseudomonas aeruginosa and on 'Evolution of novel catabolic activities in bacteria'. She produced a report for the university on research in biotechnology. Clarke also visited the University of Hong Kong. The Royal Society then suggested Clarke extend her visit into later February and go on to China under the Exchange Scheme with the Academia Sinica.	
E.11	Correspondence <i>re</i> arrangements to visit Hong Kong	1984-1985
E.12	Notices for seminars by Clarke; biographical outline of Clarke.	
E.13	Clarke's 'Report on Research and Teaching in Biotechnology at the Chinese University of Hong Kong, February; information on the Department of Biology at the CUHK.	1986

Visits and conferences

- | | | |
|------------|--|--------------------|
| E.14 | Clarke's 'Report on visit to China under Exchange Scheme with Academia Sinica'; brochure on Shanghai Institute of Biochemistry. | 1986 |
| E.15 | Correspondence arising from visits to Hong Kong | 1986, 1990 |
| E.16 | Clarke's later typescript accounts of visits to Hong Kong and China | c 1998 |
| E.17 | Department of Education and Science Invitation Conference on Biotechnology, Keble College, Oxford, 19-20 March 1986

Programme; list of participants.

Clarke spoke on 'Further Education Colleges and Polytechnics. The Scope and implications', see C.49. | 1986 |
| E.18 | Workshop on Extracellular virulence factors of <i>Pseudomonas aeruginosa</i> , Gregynog Hall, University of Wales, 15-17 September 1986

Brief correspondence <i>re</i> arrangements; programme; manuscript notes.

Clarke chaired the second session on Structural aspects of pathogenity - the organism. She contributed to the planned volume arising from the meeting, see C.1, C.2. | 1985-1986 |
| E.19, E.20 | Sixth Symposium of the Federation of Asian and Oceanic Biochemists, Karachi, Pakistan, October-November 1987

Clarke spoke on 'New products from microbial fermentations'. The proceedings were published in 1989. | 1987-c 1998 |
| E.19 | 7pp typescript draft of Clarke's contribution | 1987 |
| E.20 | Correspondence arising; Clarke's later account of the visit to Pakistan

Clarke's account was transcribed from notes taken at the time of the visit. | 1987, 1989, c 1998 |

Visits and conferences

E.21, E.22	Visit to Malaysia, 22 March-7 April 1988	1988
	Clarke visited the University of Malaya as External Examiner in Microbiology for the Department of Genetics and Cellular Biology. She also visited the Palm Oil Research Institute (see D.8) where she spoke on 'Recent developments in Biotechnology in Britain'.	
E.21	Reports on the Department of Genetics and Cellular Biology	1988
E.22	Itinerary; 7pp typescript notes for Clarke's talk on biotechnology; correspondence arising from visit	1988
E.23	UK-Japan Biotechnology Workshop, Royal Society, London, 25-26 April 1988	1988
	Programme; bound abstracts, annotated by Clarke.	
E.24-E.26	Visit to Hong Kong, August 1988	1987-1988
	Clarke visited Hong Kong to attend the 8th International Conference on Global Impacts of Applied Microbiology, held with the International Conference on Applied Biology and Biotechnology, Chinese University of Hong Kong, 1-5 August. She spoke on 'New enzymes from bacteria'. Clarke made other visits in Hong Kong on behalf of the British Council and the Royal Society.	
E.24	Correspondence <i>re</i> arrangements	1987-1988
E.25	7pp annotated typescript of Clarke's contribution; 1p references.	
E.26	Manuscript notes on visit; typescript reports to the British Council and Royal Society	1988
E.27	Programme Advisory Committee Seminar on Current Developments in Protein Engineering, Palm Oil Research Institute of Malaysia, 16 March 1990	1990
		/...

Visits and conferences

- /... Programme; abstract; 9pp typescript.
- E.28 Workshop on Library Provision for the Culture of Science, Technology and Medicine, Royal Society, London, 23 October 1990 1990
List of participants; typescript proceedings.
- E.29 Royal Society Anniversary Day, 30 November 1990 1990
Letter of invitation; programme; copy of speech proposing a vote of thanks to President of the Royal Society, and 4pp typescript of Clarke's speech seconding it.
- E.30 Meeting on J.B.S. Haldane: Science and Society, Science Museum London, 10-11 April 1992 1992
Programme; list of participants; abstracts.
Clarke was a member of the organising committee.
See also E.33-E.35 below.
- E.31, E.32 Programme Advisory Committee meeting, Palm Oil Research Institute of Malaysia, 13-18 April 1992 1992
- E.31 Schedule and programme
- E.32 Report on status of palm oil tissue culture research in relation to abnormalities
This was prepared for the meeting.
- E.33-E.35 J.B.S. Haldane Centenary Meeting, University College London, 6 November 1992 1992
Clarke spoke on 'Haldane and Biochemistry: enzymes and the origin of life'.
See also E.30 above.

Visits and conferences

E.33 7pp typescript of Clarke's lecture; figures for transparencies

Also includes covering letter sent with abstract.

E.34 Abstracts of contributions

E.35 Background information on Haldane

Includes Clarke's manuscript notes, photocopies and printed material.

E.36 Invitations declined

1985-1994

SECTION F	CORRESPONDENCE, F.1-F.78	1963-2001
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The bulk of this material was arranged by Clarke in envelopes organised by group of correspondents. It has been retained in this original order.

Many of the envelopes are further subdivided by correspondent, sometimes with a later note by Clarke explaining her relationship with the correspondent.

At F.74-F.78 is a little correspondence found loose.

F.1-F.7	'Bruce Holloway'	1963-2001
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Correspondence chiefly reporting on work on *Pseudomonas aeruginosa* and related research but also including arrangements for visits and with family, personal and social news of colleagues

Bruce Holloway was an Australian colleague of Clarke's who made his career at Monash University, Victoria. Their association through research on *P. aeruginosa* spanned some four decades and is described in Clarke's note of 2001 at F.1.

F.1	Note by Clarke on B.W. Holloway, 2001; curriculum vitae 1970	1970, 2001
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F.2	1963-1967 Correspondence <i>re</i> <i>Pseudomonas</i> genetics	
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F.3	1969-1975 Work on <i>P. aeruginosa</i> strains; contribution to <i>Genetics and Biochemistry of Pseudomonas</i> , eds. Clarke and M.H. Richmond (London: Wiley, 1975); visits to UK.	
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F.4	1976-1981 Chiefly genetic linkage mapping of <i>Pseudomonas</i> .	
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Correspondence

- F.5 1982-1985
- Visits and social news; *P. aeruginosa* gene mapping
- F.6 1982, 1985
- Career.
- F.7 1988-1998
- Chiefly personal and social news.
- F.8-F.11 'Pseudomonas Group Rob Drew' 1989-1998**
- Chiefly correspondence *re* work in progress, including drafts of work sent to Clarke for comment.
- Chiefly research on genetics of *Pseudomonas aeruginosa*, though later correspondence includes social and personal news.
- Robert E. Drew was a colleague of Clarke's based at the University College London Department of Biochemistry and Molecular Biology.
- F.8 1989-1990
- Includes typescript draft of 'Cloning, DNA sequence and purification of *amicC*, a new gene regulating expression of the *Pseudomonas* aliphatic amidase' by Drew and S. Wilson, sent to Clarke for comment.
- F.9 1991-1992
- Includes typescript draft of 'Regulation of amidase expression in *Pseudomonas aeruginosa*' by Drew and S. Wilson, sent to Clarke for comment, c 1992.
- F.10 1993, 1995
- Includes copy of presentation on 'The *P. aeruginosa* transcription antiterminator *AmiR*, binds to the Leader mRNA in the amidase operon' by Drew et al.

Correspondence

F.11	1996-c 2000	
	Includes copy of presentation on 'Antitermination of amidase expression in <i>Pseudomonas aeruginosa</i> is controlled by a novel cytoplasmic amide-binding protein' by Drew et al.	
F.12-F.26	'UCL Research Group Students etc'	1975-1996
	Correspondence with former University College research students, laboratory workers and visiting researchers. Some have a note by Clarke giving some biographical information. Arranged in alphabetical order by surname.	
F.12	Betz, J.L.	1985-1994
	Betz was a Ph.D. student of Clarke's.	
F.13	Daly, G.	1975
	Greta Daly was a technician who studied for her B.Sc. in biochemistry before moving to Australia.	
F.14	Day, M.J.	1974-1995
	Includes correspondence <i>re</i> career.	
	Day was a research student of Clarke's who spent much of his career at the University of Wales, Cardiff.	
F.15	Draper, P.	1984
	With typescript note by Clarke.	
F.16	Finer, N.	1984
	One letter only.	
	Finer was an ex-technician of Clarke's.	

Correspondence

- | | | |
|------------|---|------------|
| F.17 | Karunakaran, V. | 1990 |
| | One letter only, <i>re</i> career. | |
| F.18 | Keshavaraz, T. | 1985-2001 |
| | Chiefly <i>re</i> career. With typescript note by Clarke. | |
| | Clarke and M.D. Lilly supervised Keshavaraz's Ph.D. in biochemical engineering at University College London. | |
| F.19 | Laverack, P.D. | 1989, 1990 |
| | Laverack was a former technician in Clarke's laboratory. | |
| F.20 | Meadow, P.M. | 1987, 1991 |
| | Two letters only. | |
| | Pauline Meadow (married name Enticknap) held a Beit Fellowship for research with Clarke at UCL 1956-1957. They developed a research group and when her Fellowship ended she was appointed Lecturer. Meadow later became Reader in Biochemistry and Sub-dean of the Medical Faculty. | |
| F.21, F.22 | Rice, P.M. and C.M. | 1976-1994 |
| | Peter and Catherine Rice were Ph.D. students of Clarke's. | |
| F.21 | 1976-1979 | |
| F.22 | 1980-1994 | |
| | Chiefly <i>re</i> career. | |
| F.23, F.24 | Sambanthamurthi, R. | 1982-1996 |
| | Sambanthamurthi was a Malaysian research student of Clarke's 1979-1983. | |

Correspondence

- | | | |
|-----------|---|------------|
| F.23 | 1982-1986 | |
| | Correspondence <i>re</i> studies and career. Also includes personal news. | |
| F.24 | 1988-1996 | |
| | Chiefly personal and career news. | |
| F.25 | Sangodcar, U. | 1986, 2002 |
| | One letter only, 1986, with later typescript note by Clarke. | |
| F.26 | Trewavas, A. | 1999 |
| | One letter only. | |
| F.27-F.32 | 'UCL Misc' | 1982-1998 |
| | Correspondence with University College London colleagues. Arranged in alphabetical order by surname. | |
| F.27 | Armitage, J.P. | 1995-1998 |
| | Correspondence and papers chiefly <i>re</i> career. | |
| | Armitage was a student on the UCL B.Sc. Microbiology course. After graduation in 1972 she went on to Ph.D. research. She remained at UCL to 1985 when she moved to Oxford. She was appointed Professor of Biochemistry at the University of Oxford in 1996. | |
| F.28 | Banks, B. | 1990 |
| | Career. | |
| | Barbara Banks joined the UCL Biochemistry M.Sc. course in 1957. She did a Ph.D. in the Chemistry Department and then joined the Physiology Department. | |

Correspondence

- | | | |
|-----------|---|-----------|
| F.29 | Bawden, L.-A.

One letter only, with reminiscences. | 1999 |
| F.30 | Lighthill, M.J.

Obituaries of Lighthill, including appreciation by Clarke, <i>Guardian</i> , 25 July 1998; letter of condolence to Lady Lighthill.

The mathematician, Sir James Lighthill, was Provost of UCL. He gave strong support to science and technology and to the position of women in the College. | 1998 |
| F.31 | Man, D. | 1981-1985 |
| F.32 | Robson, E.B.

One letter only.

Bette Robson was Head of the UCL Department of Genetics and Biometry. | 1984 |
| F.33-F.56 | 'Correspondence with scientists etc UK'

Correspondence with British scientists and colleagues. Arranged in alphabetical order. | 1968-1999 |
| F.33 | Ambler, R.P.

Correspondence <i>re</i> Clarke and Ambler's 'collaboration on the amino acid sequence of the amidase of <i>Pseudomonas aeruginosa</i> ' Also includes exchange <i>re</i> commemoration meeting for M.R. Pollock, 2000.

Ambler worked in the Edinburgh University Department of Molecular Biology. | 1972-2000 |
| F.34 | Auffret, A.D.

Exchange <i>re</i> work on amidase. | 1988 |

/...

Correspondence

/...	Auffret worked with R.P. Ambler at Edinburgh on the amidase sequence.	
F.35	Billing, E. Strains of Erwinia.	1978
F.36	Brenner, S. Strains of Pseudomonas aeruginosa.	1968
F.37	Buchanan, B.J. Correspondence <i>re</i> Waltham Abbey connection.	1997, 1998
F.38	Buchanan, R.A. Correspondence <i>re</i> history of science and personal news.	1995-1998
F.39-F.44	Cambridge Biochemistry Department Correspondence with colleagues associated with the Department of Biochemistry at Cambridge. A typescript note by Clarke (F.39) lists the correspondents and explains her relationship with them.	1976-1999
F.39	Bacon, J.S.D.	1982
F.40	Corran, H.S. Chiefly personal news and news of colleagues. Includes 3pp typescript of Corran's obituary of their mutual friend R.L.M. Synge, 1994.	1992-1999
F.41	Elsden, S.R. Includes correspondence <i>re</i> Stickland-type reaction.	1976-1981

Correspondence

F.42	Gale, E.F. Chiefly personal news.	1991-1995
F.43	Harris, H.	1995
F.44	Heyningen, R. van Personal correspondence.	1996-1997
F.45	Davies, M.	1982
F.46	Dawes, E.A. Exchange <i>re</i> 100th volume of the <i>Journal of General Microbiology</i> .	1976
F.47	Derewenda, Z.	1989
F.48	Howe, T.G.B. Correspondence <i>re</i> <i>Pseudomonas aeruginosa</i> strains.	1974
F.49	Knowles, C.J. Includes copy of typescript paper 'The effect of cyclic AMP on respiratory activity in <i>Escherichia coli</i> K-12', sent to Clarke for comment after its rejection for publication, 1976.	1976, 1984
F.50	Kornberg, H.L. One letter only from Kornberg <i>re</i> propionate and growth in <i>Pseudomonas aeruginosa</i> .	1963

Correspondence

F.51	Simon, B. Personal news; history of Cirencester schools. Simon was Professor of Education at the University of Leicester.	1992, 1994, 2002
F.52	Slater, J.H. Includes typescript of 'Environmentally directed mutations in the dehalogenase system of <i>Pseudomonas putida</i> ' by Slater et al, sent to Clarke for comment. Slater was Professor of Applied Microbiology at the University of Wales.	1981-1991
F.53	Smith, W. One letter only.	1985
F.54	Spratt, B.G.	1991
F.55	Weightman, A.J. Travel grant.	1991
F.56	Wright, L.F. Correspondence and papers <i>re</i> work on <i>Pseudomonas aeruginosa</i> .	1977
F.57-F.59	'Europe'	1978-1988
F.57, F.58	Stalon, V. Victor Stalon worked in the microbiology unit of the Science Faculty of the Université Libre de Bruxelles, Belgium.	1978-1985

Correspondence

- | | | |
|-----------|--|------------------|
| F.57 | 1978-1979 | |
| | Correspondence <i>re</i> arginine metabolism. | |
| F.58 | 1983-1985 | |
| | Includes draft typescript of 'L-arginine utilization by <i>Pseudomonas</i> species' by Stalon and A. Mercenier sent to Clarke for comment, 1983, and further correspondence on arginine pathways, 1984-1985. | |
| F.59 | Miscellaneous correspondents | |
| F.60-F.73 | 'Correspondence with scientists US' | 1968-1997 |
| | Correspondence with US scientists and other colleagues. Arranged in alphabetical order. | |
| F.60 | Dykhuisen, D.E. | 1985 |
| | Letter, with enclosures, <i>re</i> mutation in <i>Escherichia coli</i> | |
| F.61 | Gunsalus, I.C. | 1969-1981 |
| | Correspondence <i>re</i> <i>Pseudomonas aeruginosa</i> , personal news. | |
| | Includes typescript biographical note on Gunsalus by Clarke. | |
| F.62 | Knowles, J.R. | 1976, 1985 |
| F.63 | Kustu, S. | 1980 |
| | One letter only <i>re</i> work on nitrogen control. | |

Correspondence

F.64	Lin, E.C.C.	1984
	One letter only, of good wishes on retirement.	
F.65	Miller, S.L.	1985
	One letter only, with enclosures.	
F.66	Olsen, R.	1980
	Correspondence <i>re</i> visit by Clarke to University of Michigan.	
	Clarke lectured to the Division of Biological Sciences course on Mechanisms of Molecular Evolution on 'Experimental evolution of biochemical pathways' on 4 November 1980.	
F.67	Ornston, L.N.	1972-1973, 1985
	Chiefly correspondence <i>re</i> Ornston's contribution to <i>Genetics and Biochemistry of Pseudomonas</i> , eds. Clarke and M.H. Richmond (London: Wiley, 1975).	
F.68	Palleroni, N.J.	1973
	Correspondence <i>re</i> Palleroni's contribution to <i>Genetics and Biochemistry of Pseudomonas</i> , eds. Clarke and M.H. Richmond (London: Wiley, 1975).	
F.69	Phibbs, P.	1991
	Exchange <i>re</i> proposal to establish a <i>Pseudomonas</i> stock culture collection at East Carolina University.	
F.70	Reiner, A.M.	1977
F.71	Sager, R.D.	1980-1997
	Chiefly correspondence <i>re</i> visits by Sager and A.B. Pardee to the UK and personal news.	
		/...

Correspondence

/...	Ruth Sager was a distinguished cancer geneticist. She was one of the first women to be elected to the US National Academy of Sciences and the American Academy of Arts and Sciences.	
F.72	Shooter, E. Personal news.	1986-1997
F.73	Stanier, R.Y. Correspondence <i>re</i> properties of strains of <i>Pseudomonas</i> . Also includes brief typescript note by Clarke on Stanier's influence on her work. Clarke wrote the Royal Society Biographical Memoir of Stanier, see C.15-C.19.	1968-1969
F.74-F.78	Miscellaneous correspondence found loose In chronological order.	1983-2000
F.74	1983, 1985, 1988	
F.75	1986	
F.76	1994 Exchange with J.R. Quayle <i>re</i> his Royal Society Biographical Memoir of the biochemist W.C. Evans (1911-1988).	
F.77	1991	
F.78	2000	

INDEX OF CORRESPONDENTS

ALLABY, Michael	C.35
AMBLER, Richard P.	F.33
ARMITAGE, Judith Patricia	F.27
ASSOCIATION FOR WOMEN IN SCIENCE AND ENGINEERING	B.33-B.35
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