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Catalogue of the papers and correspondence of

**George Porter Kt OM FRS, Baron
Porter of Luddenham**

(b. 1920)

VOLUME I

Introduction

Section A: Biographical

Section B: Research

by Peter Harper and Timothy E. Powell

NCUACS catalogue no. 100/5/01

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Title: Catalogue of the papers and correspondence of George Porter
KT OM FRS, Baron Porter of Luddenham (b.1920)

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LONDON

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from the Royal Institution, London and Lord Porter on various dates 1998-2000.

OUTLINE OF THE CAREER OF GEORGE PORTER

George Porter was born in Stainforth in Yorkshire on 6 December 1920. He was educated at Thorne Grammar School, 1931-1938, and the University of Leeds, 1938-1941 where he was Ackroyd Scholar. The teaching of M.G. Evans at Leeds was influential in inspiring an interest in physical chemistry and chemical kinetics. During his final honours year he took a special course in radio physics which led to service, 1941-1945, as a Royal Naval Volunteer Reserve Radar Officer in the Western Approaches and the Mediterranean. His wartime training in electronics and pulse techniques was to prove useful later in suggesting new approaches to chemical problems.

In 1945 he went to the University of Cambridge to undertake postgraduate research with R.G.W. Norrish in the field of chemical kinetics and photochemistry. His research involved the study, by flow techniques, of free radicals produced in gaseous photochemical reactions. The idea of using short pulses of light, of shorter duration than the lifetime of the free radicals, occurred to Porter, and he began the construction of an apparatus for this purpose in the early summer of 1947 and, together with Norrish, applied this to the study of gaseous free radicals and to combustion. Their collaboration continued until 1954 when Porter left Cambridge. His subsequent work was mainly concerned with showing how the flash-photolysis method could be extended and applied to a great variety of problems in physics, chemistry and biology. He made contributions to other techniques, particularly that of radical trapping and matrix stabilisation.

After nine years at Cambridge Porter spent a year as Assistant Director of the British Rayon Research Association in Manchester where he applied the new methods to practical problems of dye fading and the phototendering of fabrics. He then moved to the University of Sheffield where he was Professor of Physical Chemistry, 1955-1963 and Firth Professor of Chemistry, 1963-1966. Between 1963 and 1966 he was also Professor of Chemistry at the Royal Institution. Following the retirement of Sir Lawrence Bragg in 1966 Porter became Director of the Royal Institution and Fullierian Professor of Chemistry. Here his research group at the Davy Faraday Research Laboratory applied flash photolysis to the problem of photosynthesis and extended these techniques into the nanosecond and picosecond regions. He continued as Director to 1985.

Porter published many papers in leading scientific journals and *Chemistry in the Modern World*, 1962 and *Chemistry in Microtime*, 1996. He held many positions of leadership in the scientific community culminating in the Presidency of the Royal Society, 1985-1990. In 1990 became Chairman of the Centre for Photomolecular Sciences, Imperial College London.

One of Porter's particular interests was scientific education and the interpretation of science to non-specialists, a field in which the Royal Institution has been famous for many years, making his appointment as Director especially appropriate. He spoke on scientific topics to the widest range of audiences from school children to scientific colleagues at specialised symposia. He was a successful science broadcaster on television including the 1965 BBC series of lectures entitled 'The Laws of Disorder: an introduction to chemical change and thermodynamics' and his Royal Institution Christmas Lectures: 'Time Machines', 1969-1970 and 'Natural History of a Sunbeam', 1976-1977. His principal relaxation was sailing.

Porter received many awards and honours in recognition of his scientific achievements. He was elected FRS in 1960 (Medals: Davy, 1971; Rumford, 1978; Michael Faraday, 1991; Copley, 1992; Lectures: Bakerian, 1977; Humphry Davy, 1985). He was awarded the 1967 Nobel Prize for Chemistry (with M. Eigen and R.G.W. Norrish) 'for their studies of extremely fast chemical reactions, effected by disturbing the equilibrium by means of very fast pulses of energy'. He was knighted in 1972, awarded the Order of Merit in 1989 and made a life peer in 1990.

He married Stella Jean Brooke in 1949. They had two sons, John Brooke and Andrew Christopher George.

DESCRIPTION OF THE COLLECTION

The material in this collection covers the period 1938-1999. It is presented in six sections in the order given in the list of contents.

Section A, Biographical, presents documentation of Porter's career, honours and awards from 1955 to 1992 including his appointment as Director of the Royal Institution in 1966 and the award of the Nobel Prize in 1967. Presented here are papers relating to his Nobel Lecture and the 1986 meeting held in Porter's honour at the Royal Institution: 'Flash Photolysis and its Applications'.

Section B, Research, documents Porter's research from his return to academic life at Cambridge after the Second World War. There are notes, drafts and data which are particularly useful for the periods at Cambridge and Sheffield, a good record of the funding of Porter's research arranged

alphabetically by funding body which covers the period, 1955-1987 and correspondence with suppliers of research equipment, 1955-1979. A miscellaneous group of papers is presented under the subheading 'Davy Faraday Research Laboratory' including papers relating to the Laboratory's collaboration with the University of London. The section also includes records of the Photochemistry Discussion Group whose meetings were held at the Royal Institution and of patents which arose from research at the Davy Faraday Research Laboratory.

Section C, Royal Institution, is by far the most substantial in the collection. A major component of the section documents the Director's involvement in the administration of the Royal Institution including questions of organisation, finance and funding, membership, and building and maintenance. Likewise, there is a significant record of the organisation of the events for which the Royal Institution is famous, most notably the Discourses and the Christmas Lectures. There is, for example, the Director's correspondence with Discourse Lecturers arranged alphabetically by lecturer, 'Discourse invitations declined', 'Discourses: suggested lecturers and topics', 'Discourse statistics' and Discourse dinner party records, and a chronological sequence of correspondence with lecturers about their Christmas Lectures. The controversy surrounding the Discourse and Christmas Lectures of E.R. Laithwaite, 1974-1975 is well documented. Another interesting component of the section relates to the history of the Royal Institution, its library and archives and the development of the academic study of the history of science there.

Section D, Lectures, broadcasts and publications, documents Porter's role as a scientific communicator. The bulk of the papers are Porter's drafts presented in two sequences, chronological, 1955-1988 and an alphabetical sequence by folder title or topic which covers a similar time span. There are drafts of lectures Porter gave at a variety of Royal Institution occasions such as Schools Lectures, Discourses and Christmas Lectures and research lectures in the area of photochemistry. There is correspondence relating to lectures, broadcasts and publications including invitations to lecture, correspondence on BBC radio and television programmes and correspondence with journals reflecting Porter's editorial or advisory role. Also presented in this section are records of Porter's university teaching at Cambridge and Sheffield and his work with the Open University. For convenience notes taken by Porter as a student at Leeds and Cambridge are included here.

Section E, Societies, organisations and consultancies, presents records of Porter's association with eighty-one British and international organisations. In some cases documentation is slight, relating only to membership of foreign academies but in other cases where Porter held positions of leadership, for example, the Chemical Society, there is a fuller record. A particular feature of the section is the number of organisations related to some aspect of science education and popularisation including the Association for Science Education, the Bristol Exploratory and the British Association for the Advancement of Science. The Royal Society is principally represented by discussion meetings of which Porter was an organiser on a number of occasions and the Paul

Instrument Fund. Commercial organisations with which he had consultancy arrangements include, in the USA, the General Electric Research and Development Center and Energy Conversion Devices Inc.

Section F, Correspondence, presents a number of sequences of Porter's correspondence of which the most substantial is the contents of Porter's 'Miscellaneous Correspondence' files. These were arranged alphabetically by correspondent and almost all date from the period of Porter's Directorship of the Royal Institution. In addition there are sequences of 'Early Scientific Correspondence', 'Miscellaneous Correspondence' presented chronologically, 1966-1987 and groups of correspondence kept together by Porter relating to 'Soviet Scientists', 1970-1987 and 'Japanese Scientists', 1973-1985. The 'Soviet Scientists' sequence concerns the efforts by Western scientists to help dissident scientists in the Soviet Union.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Lord Porter for making papers available and for his advice and encouragement.

Peter Harper
Timothy Powell
Bath, September 2001

SECTION A	BIOGRAPHICAL	A.1-A.222
	A.1-A.7	BIOGRAPHICAL ACCOUNTS AND INFORMATION
	A.8-A.188	CAREER, HONOURS AND AWARDS
	A.189-A.195	FAMILY
	A.196-A.200	FINANCES
	A.201-A.203A	SOCIAL AND PUBLIC ENGAGEMENTS
	A.204-A.212	FAN MAIL
	A.213-A.218	SAILING
	A.219-A.222	PHOTOGRAPHS

Biographical

A.1-A.7 BIOGRAPHICAL ACCOUNTS AND INFORMATION

- A.1 'Biographical details'.
4 versions, the fullest version listing honours and awards, appointments, named lectures, television programmes, films and videotapes, and portraits to 1999.
- A.2 List of publications, 1947-1998.
- A.3 Shorter biographical accounts, 1965-1967, n.d.

'The Top Twenty', *New Scientist*, 28 August 1975.

Photocopy of front cover depicting the top twenty scientists in Britain including Porter.
- A.4 'Interview with Professor Sir George Porter, F.R.S.', 1 May 1975.

14pp typescript with manuscript notes at the head of the first page 'Quick as a Flash' and 'Chemistry in Britain'.
- A.5 Profile in *Hartshorn* the Hertfordshire Science Teaching Association magazine 1980.
- A.6 'Great minds address the burning issues', *Daily Telegraph Science Extra*, 11 August 1990.

Porter's replies, with those of other British Nobel Laureates, to two questions posed by the *Daily Telegraph* bearing on Britain's ability to sustain its reputation for scientific excellence.

Photocopy of newspaper report headed 'Top scientist [Porter] condemns "ignorance" of ministers', [*?Independent*], 1 December 1990.

Interview published in unidentified publication, n.d. but while Porter was President of the Royal Society.

Biographical

A.7 Card index of names and addresses of colleagues, research collaborators, academic, scientific, research and industrial organisations.

A.8-A.188 CAREER, HONOURS AND AWARDS 1955-1992

A.8 University of Sheffield.
Appointment as Professor of Physical Chemistry, 1955.
Appointment as Firth Professor and Head of Department, 1963.

A.9-A.12 Election to the Fellowship of the Royal Society, 1960.

Letters of congratulation. Unindexed.

4 folders.

A.13-A.25 Royal Institution 1963-1985

A.13 Election as Professor of Chemistry, Royal Institution, and election as Member, Royal Institution, 1963.

Correspondence with Sir Lawrence Bragg, Director and officers of the Royal Institution *re* part-time Professorship and Membership.

Letters of congratulation. Unindexed.

In his replies Porter explained that his duties at the Royal Institution involved only a discourse and a few schools lectures and that he would be continuing at Sheffield as Firth Professor.

A.14-A.25 Directorship 1966-1985.

Porter became Director of the Royal Institution on the retirement of Sir Lawrence Bragg in 1966. He resigned in 1985 on his nomination as President of the Royal Society.

A.14-A.21 Correspondence and papers *re* Porter's appointment as Director in succession to Sir Lawrence Bragg.

Biographical

- A.14 Correspondence with the President (Lord Fleck) and the Hon. Secretary (Brigadier Hopthrow), 1964-1966.
- A.15 Correspondence with Sir Lawrence Bragg, 1965-1966.
Correspondence with Professor Ronald King, 1965-1966.
- A.16 Correspondence with the Treasurer, 1965-1966.
Correspondence with the Assistant Secretary and Clerk of the Accounts, 1965-1966.
- A.17 Solicitors' negotiations *re* Porter's agreement for service as Director, 1965-1966.
- A.18-A.20 Porter's agreement for service as Director, 1966, with later correspondence, copies of minutes etc. dealing with amendments, 1969-1981
3 folders.
- A.21 Correspondence and papers *re* Porter's relocation to the Royal Institution from Sheffield, 1965-1966.
- A.22, A.23 Letters of congratulation on Porter's appointment as Director of the Royal Institution, 1965-1966. Unindexed.
2 folders.
- A.24 Correspondence and papers *re* Director's hospitality allowance, 1975-1981.
Found with papers *re* Porter's appointment.
- A.25 Correspondence *re* Porter's resignation from the Directorship, 1985-1986.
- A.26 Visiting Professorship Department of Chemistry, University College London, 1966.

Biographical

- A.27 Enquiry as to whether Porter was interested in the Vice-Chancellorship, University of Newcastle upon Tyne, 1966.
The enquiry was renewed in 1977.
- A.28-A.57 Nobel Prize 1967 1967-1972
Porter was awarded the 1967 Chemistry Prize (with M. Eigen and R.G.W. Norrish) 'for their studies of extremely fast chemical reactions, effected by disturbing the equilibrium by means of very short pulses of energy'.
- A.28-A.48 Letters of congratulation.
Arranged in an alphabetical sequence. Unindexed.
Telegrams are grouped together at A.46-A.48.
21 folders.
- A.49, A.50 Press-cuttings.
2 folders.
- A.51-A.55 Correspondence and papers *re* Porter's Nobel Prize Lecture on 'Flash photolysis and some of its applications', 1967-1972.
- A.51 'Lectures notes used by Professor Porter when giving his Nobel Lecture on the 11th December 1967'.
- A.52 'Nobel Prize Lecture - Second Revise - Manuscript'.
- A.53 Duplicated typescript of lecture with manuscript inscription 'Corrected as Science Proof'.
- A.54 . Correspondence *re* publication of the lecture by the Nobel Foundation, *Umschau in Wissenschaft und Technik* and Elsevier Publishing Company, 1967-1972.
Reprint orders, 1968-1969.

Biographical

- A.55 Preprint and reprint of Nobel Lecture.
- A.56 Biographical notes etc prepared in connexion with the Nobel Award.
- A.57 Drafts of Porter's speech at Nobel Award banquet.
- A.58 Honorary D.Sc., University of Utah, Salt Lake City, USA, 1968.
Includes Porter's speech on the occasion of the honorary degree ceremony.
- A.59, A.60 Honorary D.Sc., University of Sheffield, 1968.
2 folders.
Porter's speech on behalf of the honorary graduands is at A.60.
- A.61 Honorary D.Sc., University of East Anglia, 1970.
Honorary D.Sc., University of Durham, 1970.
- A.62 Honorary D.Univ., University of Surrey, 1970.
Includes Porter's speech on behalf of the honorary graduands.
- A.63 Honorary D.Sc., University of Leeds, 1971.
Includes Porter's speech on behalf of the honorary graduands.
- A.64, A.65 Honorary D.Sc., Heriot-Watt University, 1971.
2 folders.
Porter's speech on behalf of the honorary graduands is at A.65. See also D.350.

Biographical

- A.88 Foreign Associate of the US National Academy of Sciences, 1974.
- A.89, A.90 Enquiries as to whether Porter was interested in a number of posts, 1975-1978:
- A.89 Principalship, Queen Mary College, University of London, 1975.
Vice-Chancellorship, University of Liverpool, 1976.
- A.90 Mastership, St Peter's College, Oxford, 1977.
Vice-Chancellorship, University of Bradford, 1977.
Vice-Chancellorship, University of York, 1978.
- A.90¹-A.93⁷ Kalinga Prize for the Popularisation of Science for 1976.
(Awarded by UNESCO and received in 1978).
- A.90¹; A.91⁸ Correspondence and papers *re* arrangements for visit to India in January 1978 to receive the prize.
⁸⁴
2 folders.
- A.92⁵ Letters of congratulation. Unindexed.
- A.93, ~~A.94~~⁶ ~~Kalinga Prize for 1976-1977~~
Nomination of Porter for the Kalinga Prize;
Porter's Kalinga Prize address.
- A.96 Information about the prize.
- A.97 Information about the prize.
- A.97 ~~Information about the prize.~~
- A.98 Royal Society, Rumford Medal, 1978
Letters of congratulation. Unindexed.
- A.99 Honorary D.Sc., University of Hull, 1980.

Biographical

- A.66, A.66A Honorary degree, The City University, 1971.
- A.66 includes Porter's speech on behalf of the honorary graduands. Papers *re* Porter's Presidency of the City University Chemical Society, 1972-1973, are at A.66A.
- A.67 Royal Society Davy Medal, 1971.
- Letters of congratulation. Unindexed.
- A.68-A.83 Knight Bachelor, 1972.
- A.68, A.69 Correspondence and papers *re* conferral of knighthood on Porter.
- 2 folders.
- A.70-A.83 Letters of congratulation. Unindexed.
- In alphabetical order.
- 14 folders.
- A.84 Honorary D.Sc., University of Manchester, 1972.
- Honorary D.Sc., University of St Andrews, 1972.
- A.85 Honorary D.Sc., University of London, 1972.
- Includes Porter's speech on behalf of the honorary graduands.
- A.86 Honorary D.Sc., University of Kent at Canterbury, 1973.
- Invitation (declined), Honorary Professorial Fellow, Department of Chemistry, University College of Swansea, University of Wales, 1973.
- A.87 Honorary D.Sc., University of Oxford, 1974.

Biographical

- A.88 Foreign Associate of the US National Academy of Sciences, 1974.
- A.89, A.90 Enquiries as to whether Porter was interested in a number of posts, 1975-1978.
- A.89 Principalship, Queen Mary College, University of London, 1975.
Vice-Chancellorship, University of Liverpool, 1976.
- A.90 Mastership, St Peter's College, Oxford, 1977.
Vice-Chancellorship, University of Bradford, 1977.
Vice-Chancellorship, University of York, 1978.
- A.91-A.97 Kalinga Prize for the Popularisation of Science for 1976.
(Awarded by UNESCO and received in 1978).
- A.91-A.94 Correspondence and papers *re* arrangements for visit to India in January 1978 to receive the prize.
4 folders.
- A.95 Letters of congratulation. Unindexed.
- A.96 Nomination of Porter for the Kalinga Prize; Porter's Kalinga Prize address.
- A.97 Information about the prize.
- A.98 Royal Society, Rumford Medal, 1978
Letters of congratulation. Unindexed.
- A.99 Honorary D.Sc., University of Hull, 1980.

Biographical

- A.100 Professor Honoris Causa of the Federal University of Rio de Janeiro, Brazil, 1980.
Porter's address at the degree ceremony.
- A.101 Enquiries as to whether Porter was interested in a number of posts, 1980, 1982:
Mastership, Pembroke College, Cambridge, 1980.
Mastership, Churchill College, Cambridge, 1982.
- A.102 Honorary D.Sc., Instituto Quimico de Sarria, Barcelona, Spain, 1981.
Honorary Membership, Asociacion de Quimicos del Instituto Quimico de Sarria, Barcelona, 1982.
- A.103 Honorary D.Sc., University of Pennsylvania, USA, 1983.
Includes typescript notes for after-dinner speech.
- A.104 Honorary D.Sc., University of Coimbra, Portugal, 1983.
- A.105 Honorary D.Univ., Open University, 1983.
- A.106 Honorary D.Sc., University of Lille, France, 1984.
Includes Porter's speech on the occasion of the honorary degree ceremony.
- A.107 Presidency of the Royal Society, 1985.
Announcement only.
- A.108 Honorary Fellow, Queen Mary College, University of London, 1986.
- A.109, A.110 Honorary D.Sc., University of Notre Dame, Indiana, USA, 1986.
2 folders.

Biographical

- A.111-A.136 'Flash Photolysis and its Applications', meeting in honour of Porter, Royal Institution, London, 14-16 July 1986.
- More than 120 former students, co-workers and close colleagues gathered on Porter's retirement as Director of the Royal Institution and elevation to the Presidency of the Royal Society. The proceedings of the meeting were published in a special issue of the *Faraday Transactions* of the Royal Society of Chemistry in December 1986. Those attending the meeting decided to establish a Porter medal in recognition of his contribution to chemistry.
- The organisers were Professor David Phillips and Professor Frank Wilkinson.
- A.111 Correspondence *re* setting-up the meeting.
- A.112-A.116 General correspondence *re* invitations, invitations declined, late cancellations etc.
- 5 folders.
- A.117-A.119 Correspondence *re* keynote lecturers, chairmen and Faraday Division invitations.
- 3 folders.
- A.120-A.123 Correspondence *re* accommodation, reception and banquet.
- 4 folders.
- A.124, A.125 Correspondence *re* donations in support of the meeting.
- 2 folders.
- A.126 Circulars.
- A.127 Programme.

Biographical

- A.128-A.131 Lists of participants.
4 folders.
- A.132 Preprints.
- A.133 Copies of letters of thanks.
- A.134 Correspondence and papers *re* 'Flash Photolysis and its Applications',
special volume of *Faraday Transactions* in honour of Sir George Porter.
- A.135, A.136 Correspondence and papers *re* Porter medal.
2 folders.
- A.137 Honorary D.Sc., University of Bristol, 1986.
- A.138, A.139 Honorary D.Sc., University of Reading, 1986.
2 folders.
- A.140 Foreign Member, American Philosophical Society, 1986.
Honorary Professor, Beijing Institute of Technology, China, 1986.
Nomination by Royal Society of Chemistry for Maison de la Chimie
Foundation Prize, 1986.
Honorary member, Fondation de la Maison de la Chimie, Paris, France,
1986.
Foreign Fellow, Indian National Science Academy, 1986.
Honorary Member, Japan Academy, 1986.
Honorary Member, Society of Free Radical Research, 1986.

Biographical

- A.141 Melchett Medal of the Institute of Energy, 1987.
Honorary Fellow, The Royal Medical Society, Edinburgh, 1987.
Honorary Fellow, Imperial College, London, 1987.
Foreign Member, European Academy of Arts, Sciences and Humanities,
Paris, France, 1987.
Foreign Member, Accademia Nazionale Dei Lincei, Italy, 1987.
Honorary D.Sc., University of Loughborough, 1987.
Laurea in Chimica Honoris Causa, University of Bologna, Italy, 1988
- A.142-A.158 Order of Merit, 1989.
- A.142 Official correspondence and papers.
- A.143-A.158 Letters of congratulation with photocopies of Porter's replies.
In alphabetical order. Unindexed.
16 folders.
- A.159-A.187 Peerage, 1990.
Contents of two binders: letters of congratulation with photocopies of Porter's
replies. Unindexed.
- A.159-A.179 Contents of binder no.1
- A.159 Members of the Royal Family.
- A.160-A.179 Alphabetical sequence.
20 folders.
- A.180-A.187 Contents of binder no.2.
Alphabetical sequence.
8 folders.

Biographical

- A.188 Royal Society, Copley Medal, 1992.
Photocopy of reply to letter of congratulations.
- A.189-A.195 FAMILY 1968-1983**
- A.189-A.192 John Brooke Porter (son)
Correspondence and papers principally *re* secondary and higher education,
1968-1976, 1982.
4 folders.
- A.193-A.195 Andrew Christopher George Porter (son)
Correspondence and papers principally *re* secondary and higher education,
1969-1974, 1983.
3 folders.
- A.196-A.200 FINANCES 1965-1988**
- A.196 'Fees Record'. Notebook so labelled used for record of payments received
by Porter, 1973-1988.
Includes payments received from broadcasting organisations, industrial
concerns, publishers and universities.
- A.197-A.200 Miscellaneous financial papers, 1965-1987.
- A.197 Fees received from the BBC for the year ending 5 April 1965.
- A.198 Emmanuel College Building Fund, 1966.
Emmanuel Boat Club Henley Fund Association, 1970.

Biographical

A.199 Correspondence with Inland Revenue *re* expenses and residence in the Director's flat at the Royal Institution, 1979.

A.200 Appeals, 1981-1987.

A.201-A.203A SOCIAL AND PUBLIC ENGAGEMENTS 1969-1991

A.201-A.203A Correspondence, invitation cards, table plans etc *re* miscellaneous social and public engagements, 1969-1991.

4 folders.

At A.203A are papers *re* Royal Institution occasions, 1976, 1981 misfiled with papers *re* Porter's life peerage, 1990 (A.159-A.187).

A.204-A.212 FAN MAIL 1972-1986

'Fan Mail'. Contents of folder so inscribed: 1972-1986.

A.204-A.207 'Fan Mail (Nobel Prize)'. Letters so labelled: letters from autograph collectors interested in Nobel Prize winners, 1972-1985. Unindexed.

4 folders.

A.208-A.212 Other letters from the 'Fan Mail' folder presented in a chronological sequence, 1974-1986. Unindexed.

5 folders.

A.213-A.218 SAILING 1960-1979

'Sailing Clubs, Boat, etc.'. Contents of folder so inscribed: correspondence and papers *re* Porter's interest in sailing, membership of sailing clubs, purchase of boats etc., 1960-1979. Unindexed.

6 folders.

Biographical

A.219-A.222	PHOTOGRAPHS	N.d
A.219	Portrait photograph of Porter, n.d.	
A.220	Photograph of Porter with colleagues at the Institute of Physical Chemistry, University of Uppsala, Sweden, n.d.	
A.221	Photograph with label attached on verso: 'Professor George Porter explains "The Laws of Disorder" in the last of his series of four films on this subject, made in conjunction with the Royal Institution by Millbank Films Ltd'.	
A.222	5 photographic slides of Porter ? relate to lecture demonstrations, n.d.	

SECTION B

RESEARCH

B.1-B.382

B.1-B.85	RESEARCH NOTES AND RELATED PAPERS
B.86-B.242	RESEARCH GRANTS
B.243-B.252	RESEARCH EQUIPMENT
B.253-B.285	DAVY FARADAY RESEARCH LABORATORY
B.286-B.303	PHOTOCHEMISTRY DISCUSSION GROUP
B.304-B.382	PATENTS

Research

B.1-B.85	RESEARCH NOTES AND RELATED PAPERS	1945-1990
B.1, B.2	'Apparatus'. Contents of filing cabinet divider so labelled. Typescript notes, circuit diagrams, off-print, etc., 1945-1958.	
B.1	'Lamps - Light Sources'. Contents of folder so inscribed.	
B.2	Includes notes on synthetic fused silica and apparatus for micro gas analysis.	
B.3-B.18	'Research Notes from Cambridge'. Contents of filing cabinet divider so labelled: correspondence, photographs, duplicated typescript notes etc., 1952-1955, n.d.	
B.3	Correspondence with Cambridge colleagues, ICI Research Department (J.C. Wood) and others, 1953-1955.	
B.4, B.5	Manuscript and typescript notes and drafts, data etc., n.d. 2 folders.	
B.4	Includes notes headed 'Research Programme', 'Recent Results', 'Summary of Results' and 'Photolysis and kinetics in the solid state'.	
B.5	Includes typescript draft of 'Discussion' headed 'Spectroscopic Studies of the Phosphorescent States of Aromatic Hydrocarbons' and typescript draft headed 'Explanation of Viscosity Dependence Postulate A'.	
B.6-B.12	Photographs. A number of photographs are inscribed 'M.W. Windsor' or 'M.W.W.' on verso. One photograph only dated 23 March 1952 (B.6). 7 folders.	

Research

- B.32 'Ion-Ion Recombination' (by Wooding), Fourth International Congress on Ionization Phenomena in Gases, Uppsala, Sweden, August 1959.
Typescript draft.
- B.33 'Sub-microseconds Impulse Light Sources' (by Wooding), n.d., latest bibliographical reference, 1959.
Typescript draft + figures.
- B.34 'Submicrosecond Impulse Capacitors' (by Wooding), n.d., latest bibliographical reference, 1960.
Typescript draft.
- B.35 Research data etc, n.d.
Letter from Wooding, 3 August 1966, enclosing off-print.
- B.36-B.52 'Photographs'. Contents of filing cabinet divider so labelled divided into seventeen for ease of reference: photographs, figures and data, 1952-1959 and n.d.
The contents of the divider were found in very considerable disorder.
- B.53-B.58 Contents of untitled wallet file: 1959 and n.d.
- B.53 Notebook used for experimental data etc., first page dated 20 October 1959.
- B.54 Notebook inscribed on first page 'References', n.d.
Loose papers enclosed.
- B.55-B.58 Research data, n.d.
4 folders.

Research

- B.59-B.65 'Research Notes, General'. Contents of filing cabinet divider so labelled: correspondence and papers, 1964-1965, n.d.
- B.59 'Chlorophyll (Corr)'. Contents of folder so inscribed: correspondence and papers, 1964-1965.
- B.60 'Biphotonic Processes'. Correspondence and papers so labelled, 1964-1965.
- B.61 'W.A. Gibbons - Photoionization of toluene and related hydrocarbons'. Drafts and covering note from Gibbons to Porter so labelled, ca 1965.
- A paper by Gibbons, Porter and M.I. Savadatti on the photo-ionization of aromatic hydrocarbons was published in *Nature* in 1965.
- B.62 'W.A. Gibbons - Energy Transfer'. Covering letter and draft paper by Gibbons so labelled. The covering letter from Gibbons at the Bell Telephone Laboratories is undated. Latest bibliographical reference in the draft is 1965.
- B.63 'Research Notes - General'. Manuscript notes so labelled, n.d.
- B.64, B.65 Miscellaneous manuscript and typescript notes and drafts, n.d.
- 2 folders.
- B.65 includes manuscript notes headed 'Research Programme' and typescript draft headed 'Preliminary Proposals for Research Programme'.
- B.66-B.70 'Histories Nanosec flash photolysis'. Contents of wallet file so inscribed: correspondence, drafts, research reports, printed papers *re* research at Sheffield and the Royal Institution ca 1965-1968.
- 5 folders.
- B.71-B.74 'Conc. Quenching'. Contents of folder so inscribed divided into four for ease of reference: manuscript and typescript drafts, off-prints, pre-print, etc, 1963-1979.

Research

- B.75 Annotated papers from folder inscribed 'Energy Transfer', 1966, 1971.
- B.76 Annotated papers, 1983-1985.
- B.77-B.79 'Research Students'. Contents of folder so inscribed divided into three for ease of reference: manuscript and typescript reports, data and grant application, 1984 and n.d.
- B.80 Annotated papers and literature survey, latest bibliographical reference, 1984.
- B.81 1p typescript note, bibliographical reference, 1984.
- B.82 'Efficiency in photochemical reactions', typescript draft, n.d.
- B.83 Miscellaneous research notes, n.d.
- B.84 Notebook used 1977-1980.
Loose papers enclosed.
- B.85 Notebook inscribed inside front cover 'Imperial College 1990'.
- B.86-B.242 **RESEARCH GRANTS** **1955-1987**

Arranged alphabetically by funding body.
- B.86, B.87 **Agricultural Research Council** **1970-1972**

Correspondence, applications and reports.
2 folders.

Research

- B.88-B.115 **CEC (Commission of the European Communities)** 1975-1985
- The papers relate to contracts in respect of the CEC Solar Energy Research and Development Programme.
- B.88-B.102 'CEC Contract No. 017 - 76 - ESUK: October 1976 - June 1980'. Contents of folder so inscribed: correspondence, applications, contracts, reports, etc found in two folders within the larger folder, 1975-1981.
- B.88-B.94 'CEC Contract No. 017 - 76 - ESUK October 1976 - June 1979 and extension July 1979 - June 1980 Applications, Contracts and Related Correspondence'. Contents of folder so inscribed, 1975-1980.
- B.88 'Correspondence re establishing Solar Energy Programme of Research for Support by CEC'. Correspondence and papers so labelled, 1975-1976.
- B.89 'Application for Research Grant from CEC January 1976 and Related Correspondence'. Correspondence and papers so labelled, 1976.
- B.90 Correspondence with Department of the Environment, Department of Energy and others *re* European Economic Community Energy Research and Development, 1976-1979.
- B.91 'Contract No. 017-76-ESUK Renewal Application 18-7-77'. Correspondence and papers so labelled, 1977.
- B.92 'Application and Correspondence Relating to One-Year Extension of Contract to June 1980'. Correspondence and papers so labelled, 1978-1980.
- B.93 'Contract No. 017-76-ESUK 1 October 1976-30 September 1977'. Correspondence and papers so labelled, 1976.
- 'Supplement No.1 to 017-76-ESUK Contract'. Correspondence and papers so labelled, 1976.

Research

- B.94 'Supplement No.2 to 017-76-ESUK Contract'. Correspondence and papers so labelled, 1977.
- 'Supplement No.3 to 017-76-ESUK Contract Extension for 12 months July 1979-June 1980'. Correspondence and papers, so labelled, 1980.
- B.95-B.102 'CEC Contract No. 017-76-ESUK "The photochemical dissociation of water by means of visible light" Reports'. Contents of folder so inscribed: correspondence and papers, 1977-1981.
- B.95 Correspondence and papers, 1977.
- B.96 Correspondence and papers, 1978.
- B.97 Correspondence and papers, 1979-1981.
- B.98-B.102 Final Report.
- 98pp typescript + tables and figures.
- 5 folders.
- B.103-B.109 'CEC Contract No. ES-D-011-UK(N): July 1980-June 1983'. Contents of folder so inscribed: correspondence, application, contract, reports etc, found in two folders within the larger folder, 1979-1983.
- B.103-B.105 'CEC Contract No. ES-D-011-UK(N): 1st July 1980-30th June 1983 Application, contract and correspondence relating thereto'. Contents of folder so inscribed, 1979-1983.
- B.103 Correspondence and papers *re* application for four-year grant submitted 13 December 1979.
- B.104 Correspondence and papers *re* revised application for three-year grant submitted 29 April 1980.
- B.105 Copy of contract no. ES-D-011-UK and related papers, 1980-1983.

Research

- B.106-B.109 'CEC Contract No. ES-D-011-UK(N): July 1980-June 1983 "Development of a Process for the Sensitized Photochemical Dissociation of Water by Sunlight" Reports'. Contents of folder so inscribed: correspondence and papers, 1981-1985.
- B.106 Correspondence and papers, 1981-1982.
- B.107 Correspondence and papers, 1983-1985.
- B.108, B.109 Final Report.
40pp typescript + references, tables and figures.
2 folders.
- B.110-B.113 'CEC Solar Energy R&D Programme Project D - Photochemical, Photoelectrical and Photobiological Conversion Coordination Meetings of Contractors'. Contents of folder so inscribed: correspondence and papers, 1978-1982.
- B.110 'Second Contractors' Meeting: Copenhagen 1978'. Correspondence and papers so labelled, 1978-1979.
- B.111 'Third Contractors' Meeting: Brussels 1979'. Correspondence and papers so labelled, 1979.
- B.112 'First Contractors' Meeting (Second Solar Energy R&D Programme): Munich 1980'. Papers so labelled, 1980.

'Second Contractors' Meeting (Second Solar Energy R&D Programme): France 1981'. Papers so labelled, 1981.
- B.113 'Third Contractors' Meeting (Second Solar Energy R&D Programme): Brussels 1982'. Correspondence and papers so labelled, 1982.

'Report for the Grenoble meeting', n.d.

Research

- B.114 'CEC Contract Proposal: 1985'. Contents of folder so inscribed: correspondence and papers, 1982-1985 including grant application submitted 20 December 1985.
- B.115 Reports and Newsletters.
Printed and duplicated papers, 1977-1985.
1 bundle.
- B.116 **Courtaulds' Educational Trust Fund** 1965-1968
In 1966 Porter was awarded £4,000 for the purchase of equipment at the Davy Faraday Research Laboratory of the Royal Institution.
Correspondence and papers including application, 1965-1968.
- B.117-B.144 **Department of Scientific and Industrial Research (DSIR)/ Science Research Council (SRC)** 1957-1979
See also B.184-B.201.
- B.117-B.122 'SRC (and DSIR) Grants: 1958-1966 (University of Sheffield)'. Contents of folder so inscribed: correspondence, applications, reports etc, found in four folders within the larger folder, 1957-1967.
- B.117 'DSIR Grant 3/9/158 "Unstable Intermediates in Chemical Reactions" Awarded May 1958'. Contents of folder so inscribed: correspondence and papers, 1957-1963.
- B.118, B.119 '1962 Application (University of Sheffield) for Equipment and Research Assistant Salary Awarded 1962 for one year (B/SK/498) Supplements in 1963, 1964 and 1965'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers including application and final report, 1962-1965.

The research grant was entitled 'Radiationless conversion in organic molecules'.
- B.120, B.121 'SRC Grant B/SR/2478 "Reactivity of Excited States" Awarded 1 October 1965 for 2 years'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers including application and reports, 1965.

Research

- B.122 'SRC Grant SR/C/2576 "Development of Flash Photolysis" Awarded February 1966 for One Year'. Contents of folder so inscribed: correspondence, application, press-release, report etc., 1965-1967.
- B.123, B.124 'Transfer of Grants and Equipment: University of Sheffield → Royal Institution'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers including lists of grants and equipment, 1966.
- B.125-B.136 'SRC Grant B/SR/3147: September 1966-August 1975'. Contents of folder so inscribed: correspondence, applications, reports, etc., found (with the exception of the record of research costs at B.134) in three folders within the larger folder, 1966-1975.
- B.125-B.129 'Applications 1966-1974'. Contents of folder so inscribed: correspondence and papers, 1966-1974.
- B.125 Application 1966.
- B.126 Application March 1968.
Application September 1968.
- B.127 Application 1970.
- B.128 Application 1972.
- B.129 Application 1973.
Application 1974.
- B.130-B.133 'Correspondence about Equipment'. Contents of folder so inscribed divided into four for ease of reference: correspondence, duplicated papers and photographs, 1962-1974

Photographs are at B.133.

Research

- B.134 Record of research costs.
- B.135, B.136 'Reports to the SRC'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers, 1969-1975.
- B.137-B.140 'SRC Grant B/RG/86511: 1975-78'. Contents of folder so inscribed: correspondence and papers, 1974-1979.
- B.137, B.138 Correspondence and papers including application and press-release *re* SRC grant for work on 'Primary Photoprocesses', 1974-1975.
- A three year grant was awarded from 1 September 1975.
- 2 folders.
- B.139 'Supplement Request 1976'. Correspondence and papers so labelled, 1976-1977.
- 'Supplement Request/Award 1977'. Correspondence and papers so labelled, 1977.
- 'Supplement Request/Award 1978 (May)'. Correspondence and papers so labelled, 1978.
- B.140 'Reports on Grant B/RG/86511'. Correspondence and papers so labelled, 1979.
- B.141-B.144 'SRC Various Grants: 1969-1976'. Contents of folder so inscribed: correspondence and papers, most found in two folders within the larger folder, 1969-1977.
- B.141 '1969 Application for Equipment only Awarded (B/SR/7935) for one year from 1 December 1969'. Contents of folder so inscribed: correspondence and papers including application and report, 1969-1973.
- B.142 Correspondence with H.J. Milledge, Chemistry Department, University College London *re* application from her for work on 'Electron-diffraction studies of transient gas-phase species', 1972.

Research

- B.143, B.144 '1973 Application to support Dr Mary Archer Awarded 3 year Grant: 1 September 1973 to 31 August 1976 Supplement (transfer between headings) 8 April 1975'. Contents of folder so inscribed: correspondence and papers, 1973-1977.
- B.143 Correspondence and papers including application, 1973-1976.
- B.144 Reports, 1975-1977.
- B.145-B.150 **General Electric Company** 1973-1987
The General Electric Company, Research and Development Center, Schenectady, New York provided financial support for research at the Royal Institution in the field of (a) photochemical utilization of solar energy and (b) efficient conversion of solar energy via photodissociation reactions and photo-induced electron transfer reactions.
Correspondence and papers including research proposals and reports.
- B.145 1973-1974.
- B.146 1975-1977.
- B.147 1978-1979.
- B.148 1980-1982.
- B.149 1983-1984.
- B.150 1985-1987.
- B.151, B.152 **Leverhulme Trust** 1978-1984
Correspondence and papers *re* Leverhulme Research Fellowship.
- B.151 Application, 1976.

Research

- B.152 Correspondence and reports, 1976-1984.
- B.153-B.178 **Ministry of Defence** 1969-1979, 1993
- B.153-B.162 'MOD Agreement: A/70/Gen/9961 "Triplet State Absorption": 1970-1971'. Contents of folder so inscribed: correspondence, agreement, reports, etc, 1969-1973.
- B.153 'Agreement No. A/70/Gen/9961 Correspondence/Proposal/Contract'. Correspondence and papers so labelled, 1969-1970.
- B.154 'Correspondence with MOD (Mr T.K. Overton) re Research Agreement, etc)'. Correspondence and papers so labelled, 1970-1971.
- B.155-B.157 Documents sent to Porter, February 1970.
3 folders.
- B.158-B.161 'Research Reports: Agreement No.A/70/Gen/9961 "Triplet State Absorption"'. Correspondence and papers so labelled, 1970-1973.
4 folders.
- B.162 Ministry of Defence Technical Memorandum 'Progress in Ocular Protection from Nuclear Flash', April 1972.

In original folder inscribed 'Refers to "Triplet State Absorption" Contract'.
- B.163-B.169 'MOD Agreement : 'A/70/Gen/10096 (later AT/2217/MAT/SC) : "Mechanisms of Photochromism": 1972-1973'. Contents of folder so inscribed: correspondence, research proposal, contract, reports etc., 1971-1976.
- B.163 Correspondence, research proposal and contract, 1971-1974.

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- B.164-B.169 Reports, 1972-1976.

6 folders.

Reports at B.167-B.169 in original folders.
- B.170-B.178 'MOD Contract: Laser-Induced Transitions A/CTS/SI/6086: Reports and Correspondence'. Contents of folder so inscribed: 1974-1979, 1993.
- B.170 Correspondence and papers including research proposal, 1974-1979, 1993.
- B.171, B.172 Correspondence and papers *re* personnel, 1974-1975.

2 folders.
- B.173-B.178 Reports, 1975-1978.

6 folders.
- B.179-B.182 **NATO (North Atlantic Treaty Organization)** 1971-1977, 1984
- B.179, B.180 'Joint NATO Grant: University of Western Ontario/The Royal Institution: 1972/73'. Contents of folder so inscribed divided into two for ease of reference: research proposal and correspondence with Professor Paul de Mayo, Department of Chemistry, University of Western Ontario, 1971-1973.
- B.181, B.182 'Joint NATO Grant: Instituto Superior Tecnico, Portugal / Royal Institution / University of Leicester: 1975/7'. Contents of folder so inscribed: applications and correspondence, 1974-1977, 1984.
- B.181 Application and correspondence *re* 'Joint NATO Grant: 1975/6', 1974-1975.
- B.182 Application and correspondence *re* 'Joint NATO Grant: 1976/7', 1976-1977, 1984.

Research

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|-------------|--|------------|
| B.183 | Royal Society | 1955, 1966 |
| | Correspondence and papers <i>re</i> equipment awarded to Porter under the Grant-in-Aid Fund, 1955, 1966. | |
| B.184-B.201 | Science Research Council (SRC)/Science and Engineering Research Council (SERC) | 1978-1987 |
| B.184-B.187 | 'SRC Special Grant: GR A59590 1978-1980'. Contents of folder so inscribed: correspondence and papers, 1977-1981. | |
| B.184 | 'Application: December 1977 for Support from September 1978 for 4 Years'. Application and covering letter so labelled, December 1977. | |
| B.185 | 'SRC Chemistry Committee Panel Visitation to DFRL'. Correspondence and papers so labelled, 1978. | |
| B.186 | 'Correspondence with SRC re Award of Special Grant (Rolling Grant). Ref. GR/A59590'. Correspondence and papers so labelled, 1977-1981. | |
| B.187 | Miscellaneous correspondence, 1977-1980. | |
| B.188-B.194 | 'SRC Special Grant: GR/B44187 1980-1982'. Contents of folder so inscribed: correspondence and papers found in two folders within the larger folder, 1979-1983. | |
| B.188-B.191 | 'SRC Special (Rolling) Grant: GR/B44187 1980 Application'. Contents of folder so inscribed: correspondence and papers, 1979-1982. | |
| B.188 | 'Application: March 1980 for Extension of Rolling Grant for 4 Years from 1 September 1980'. Application and correspondence so labelled, 1979-1980. | |
| B.189 | Copy of application with manuscript revision, 1980. | |
| B.190 | 'SRC Chemistry Panel Visitation to DFRL 27 May 1980'. Correspondence and papers so labelled, 1980. | |

Research

- B.191 'Correspondence with SRC re Extension of Rolling Grant for Four Years from 1 September 1980 Ref. GR/B44187'. Correspondence and papers, 1980-1982.
- B.192-B.194 'S[E]RC Rolling Grant Reports 1980-1982 GR/B44187'. Correspondence and papers, 1982-1983.

3 folders.
- B.195-B.199 'SERC Special Grant: GR/C/18663 1982-1986'. Contents of folder so inscribed: correspondence and papers found in two folders within the larger folder, 1981-1986.
- B.195-B.198 'SERC Special (Rolling) Grant: GR/C/18663 1982-86 1982 Application'. Contents of folder so inscribed: 1981-1986.
- B.195 'Application - March 1982 - for Extension of Rolling Grant for Four Years from 1 September 1982'. Application and correspondence so labelled, 1981-1982.
- B.196 'Correspondence with SERC re Extension of Rolling Grant 1982-1986 Ref. GR/C/18663'. Correspondence and papers so labelled, 1981-1986.
- B.197 'SERC Special Grant Panel Visitation to DFRL 14 May 1982'. Correspondence and papers so labelled, 1982.

'Correspondence re equipment'. Correspondence and papers so labelled, 1982.
- B.198 Miscellaneous correspondence and papers, 1983-1984.
- B.199 'Rolling Grant Report 1982-1984 GR/C/18663'. Contents of folder so inscribed: 1984.
- B.200, B.201 'Research Grants'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers *re* SERC grants, 1986-1987.

Research

- B.202-B.225 **United States Air Force** 1956-1970
- B.202-B.216 'US Air Force Grants: "The Triplet State" and "Kinetics of the Triplet State" - 1958-1966'. Contents of folder so inscribed: correspondence and papers, 1956-1966.
- B.202 'Correspondence re Initiation of Research Contracts between British Universities and the U.S. Air Force'. Correspondence and papers so labelled, 1956-1957.
- B.203-B.208 'U.S. Air Force Contract: AF 61(052)-32 "The Triplet State" January-December 1958 January-December 1959 and extended to February 1962'. Correspondence and papers so labelled, 1958-1962.

6 folders.
- B.209 'US Air Force Grant: AF EOAR 62-113 "Kinetics in the Triplet State" March 1962 - August 1963'. Correspondence and papers so labelled, 1961-1962.
- B.210-B.215 'US Air Force Grant: AF 61 (052)-722 "Kinetics of the Triplet State" September 1963-August 1964 September 1964-August 1965 (AF 61(052)-848 September 1965-August 1966'. Correspondence and papers so labelled, 1963-1966.

6 folders.
- B.216 Statements of income and expenditure, 1958-1965.
- B.217-B.225 'US Air Force Grant: "Primary Photoprocesses in Organic Materials" - 1967-1969'. Contents of folder so inscribed: correspondence and papers, 1966-1970.
- B.217-B.219 'US Air Force Contract: F61052-68-C-0010 Research Proposals'. Correspondence and papers so labelled, 1966-1969.

3 folders.

Research

- B.220-B.223 'US Air Force Contract: F61052-68-C-0010 "Primary Photoprocesses in Organic Materials" 1967-1969: Davy Faraday Research Laboratory Correspondence/Contract'. Correspondence and papers so labelled, 1967-1970.
4 folders.
- B.224, B.225 'US Air Force Contract: F61052-68-C-0010 Reports'. Correspondence and papers so labelled, 1968-1969.
2 folders.
- B.226-B.239 **United States Army** 1957-1984
- B.226-B.236 'US Army Contract: "Recombination of Atoms and Free Radicals": 1958-1963'. Contents of folder so inscribed: correspondence and papers, 1957-1963
- B.226, B.227 'US Army Contract: DA-91-508-EUC-271' "The Recombination of Atoms and Free Radicals" January-December 1958'. Correspondence and papers so labelled, 1957-1958.
2 folders.
- B.228 'US Army Contract: DA-91-591-EUC-988' "The Recombination of Atoms and Free Radicals" January-December 1959'. Correspondence and papers so labelled, 1958-1959.
- B.229 'US Army Contract: DA-91-591-EUC-988' "The Recombination of Atoms and Free Radicals" January-December 1960'. Contract and reports so labelled, for 1960.
- B.230 'US Army Contract: DA-91-591-EUC-1670 "The Recombination of Atoms and the Free Radicals" January-December 1961'. Correspondence and papers so labelled, 1960 including contract for 1961.
- B.231-B.233 'US Army Contract: DA-91-591-EUC-2091 "Further Studies of Iodine Atom Recombination" January-December 1962. Correspondence and papers so labelled, 1961-1962.
3 folders.

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- B.234, B.235 'US Army Contract: DA-91-591-EUC-2091 "The Recombination of Atoms and Free Radicals" January-December 1963'. Correspondence and papers so labelled, 1962-1963.
- 2 folders.
- B.236 Statements of income and expenditure, 1961-1963.
- Booklet on the United States Army Research and Development Liaison Group, n.d.
- B.237 'US Army Grant: DA-ERO-75-G.058 - 1975-1976'. Contents of folder so inscribed: correspondence and papers, 1976.
- B.238, B.239 'US Army/Navy: Miscellaneous Reports and Correspondence'. Contents of folder so inscribed divided into two for ease of reference: correspondence and papers, 1973-1984.
- B.240-B.242 **Miscellaneous** 1965-1970
- B.240-B.242 'Research Funding: Miscellaneous Correspondence'. Contents of folder so inscribed divided into three for ease of reference: correspondence and papers, 1965-1970.
- B.243-B.252 **RESEARCH EQUIPMENT** 1955-1979
- 'Equipment - Research'. Contents of folder so inscribed: correspondence and papers, principally with suppliers, 1955-1979.
- B.243 1955.
- B.244 1956-1957.
- B.245 1958-1959.

Research

- B.246 1960-1962.
Includes photograph of 'Professor's room', 18 December 1960.
- B.247, B.248 1966.
2 folders.
- B.249 1967-1968.
- B.250 1972-1979.
- B.251 'Flash Photolysis Apparatus'. Duplicated typescript, diagrams etc by P.F. Cole, Experimental Officer, Chemistry Department, University of Sheffield, n.d.
- B.252 Lists of equipment, diagrams, etc., n.d.
- B.253-B.285 DAVY FARADAY RESEARCH LABORATORY 1966-1987**
- B.253 Note recording that files relating to research personnel, research symposia and research lectures were transferred to Imperial College in 1987.
- B.254-B.261 'D.F. Correspondence (General)'. Contents of folder so inscribed: 1966-1985.
- B.254 Correspondence *re* Davy Faraday Committee, 1966-1967.
Correspondence *re* transfer of D.C. Phillips's equipment to Oxford, 1966.
- B.255 Correspondence *re* loan of equipment to P. Pauling at University College London, 1966.
Correspondence and papers *re* agreement between Northern Precision Ltd and the Laboratory, 1970.

Research

- B.256 Correspondence *re* procedure for reporting to the Managers admissions of research workers in the Laboratory, 1966-1968.
Correspondence and papers *re* research personnel, 1968-1981.
- B.257 Correspondence *re* reference book entries about research in progress, 1967.
Correspondence and papers *re* student reports, 1983.
- B.258 Correspondence and papers *re* European research resources, 1968-1969.
- B.259 Correspondence *re* legacy to the Laboratory from Mr F.I.G. Rawlins, 1969-1970.
- B.260 Correspondence and papers *re* research fellowships offered, 1983-1985.
- B.261 Miscellaneous correspondence and papers, 1966-1977.
- B.262, B.263 'Dewar Research Fellowship'. Contents of folder so inscribed: correspondence and papers, 1956-1981.
- B.262 Correspondence and papers *re* holders of the Fellowship, 1956-1978:
U.W. Arndt (appointed 1955).
C.W. Bunn (appointed 1963).
M.D. Archer (appointed 1975).
A. Harriman (appointed 1978).
- B.263 Background papers *re* Fellowship, *ca* 1969-1981.
- B.264-B.269 'D.F. Laboratory Link / Collaboration with University of London'. Contents of folder so inscribed: correspondence and papers, 1965-1982.

Research

- B.264, B.265 'Correspondence concerning registration of postgraduate students in the Davy Faraday Laboratory for higher degrees of the University of London and establishment of SERC quota studentships to DFRL'. Correspondence and papers so labelled, 1965-1977.
- 2 folders.
- B.266 'Access to UL Computer Centre'. Correspondence and papers so labelled, 1977-1980.
- B.267 'Student demonstrating'. Correspondence and papers so labelled, 1980.
- B.268 'Examples of Annual Reports on Student Progress to University of London'. Papers so labelled, 1976.
- B.269 Miscellaneous correspondence and papers, 1970, 1979-1982.
- B.270-B.275 'Ph.D Examinations'. Contents of folder so inscribed: correspondence and papers, 1959-1985.
- Predominantly from Porter's time at the Royal Institution but includes some earlier University of Sheffield papers.
- B.270-B.273 'Examiners' Reports'. Correspondence and papers so labelled, 1959-1977.
- 4 folders.
- B.274 'Nominations of Examiners'. Correspondence and papers so labelled, 1975-1985.
- B.275 Miscellaneous correspondence and papers, 1970-1979.
- B.276-B.279 'Research Reports'. Contents of folder so inscribed divided into four for ease of reference: miscellaneous papers *re* research at the Royal Institution, 1966-1985.
- Includes at B.276 'Research in the Department of Chemistry 1965-1966' at the University of Sheffield.

Research

- B.280, B.281 'Research Group Talks'. Contents of folder so inscribed divided into two for ease of reference: schedules of talks, 1967-1986.
- Papers, 1967-1975 (B.280) relate to the Photochemistry Discussion Group. See also B.286-B.303.
- B.282 'Research Visitors'. Contents of folder so inscribed: correspondence, 1973-1986.
- B.283 'Research Dinners'. Contents of folder so inscribed: correspondence and papers, 1967-1973.
- B.284 'Director's Socials - Photochemistry Group'. Contents of folder so inscribed: correspondence and papers so inscribed, 1972-ca 1983.
- Includes photograph (two prints) of research group ca 1983.
- B.285 Davy Faraday Research Laboratory 'Notes for Research Workers and Staff', January 1987.
- B.286-B.303 PHOTOCHEMISTRY DISCUSSION GROUP 1972-1985**
- The papers relate to symposia which were held at the Royal Institution. Many were chaired by Porter.
- See also B.280.
- B.286-B.295 'Photochemistry Discussion Group 1972-1979'. Contents of folder so inscribed: programmes, lists of participants, abstracts, etc. *re* symposia, 1972-1979.
- B.286 Mailing list.
- B.287 Photochemistry Discussion Group and British Photobiology Society One-Day Symposium on 'The Detection and Relevance of Excited States in Photosynthesis and Vision', 30 May 1972.

Research

- B.288 Photochemistry Discussion Group One-Day Symposium on 'Radiationless Transitions in Aromatic Molecules', 15 May 1973.
- B.289 Photochemistry Discussion Group Two-Day Symposium on 'Pulsed Methods in Photochemistry', 13 and 14 May 1975.
- B.290 Photochemistry Discussion Group One-Day Symposium on 'Energy Transfer in Photosynthesis', 20 November 1975.
- B.291 Photochemistry Discussion Group Half-Day Symposium on 'Excited State Complexes', 19 February 1976.
- B.292 Photochemistry Discussion Group Half-Day Symposium on 'Inorganic Photochemistry', 12 May 1976.

Photochemistry Discussion Group Half-Day Symposium on 'Intermediates in Photochemical Reactions', 11 November 1976.
- B.293 Photochemistry Discussion Group One-Day Symposium on 'Photobiology and Photochemistry', 8 March 1977.

Information *re* conference on 'Lasers in Chemistry', Royal Institution, 31 May-2 June 1977.

Found with Photochemistry Discussion Group papers.
- B.294 Photochemistry Discussion Group Half-Day Symposium on 'Photochemical Reorientation', 9 November 1978.
- B.295 Photochemistry Discussion Group One-Day Symposium on 'Fast Reactions in Chemistry and Biology', 22 March 1979.

Photochemistry Discussion Group One-Day Symposium on 'Fluorescent Probes in Proteins and Membranes', 8 November 1979.
- B.296-B.303 'Photochemistry Discussion Group 1980-1985'. Contents of folder so inscribed: programmes, lists of participants, abstracts, etc, 1980-1985.

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- B.296 Photochemistry Discussion Group One-Day Symposium on 'Alternative Approaches to the Photodissociation of Water', 29 May 1980.
- B.297 Photochemistry Discussion Group and British Photobiology Society One-Day Symposium on 'Primary Photosynthetic Processes in Vivo and in Vitro', 11 December 1980.
- Photochemistry Discussion Group One-Day Symposium on 'Recent Studies in Luminescence Spectroscopy', 26 February 1981.
- Photochemistry Discussion Group One-Day Symposium on 'Photophysics of Synthetic Polymers', 10 December 1981.
- B.298 Photochemistry Discussion Group One-Day Symposium on 'Photogeneration of Hydrogen', 11 March 1982.
- Photochemistry Discussion Group One-Day Symposium on 'Photochemistry of Porphyrins', 9 June 1982.
- B.299 Photochemistry Discussion Group One-Day Symposium on 'Picosecond Chemistry and Biology', 25 November 1982.
- B.300 Photochemistry Discussion Group One-Day Symposium on 'Photocatalysis', 24 March 1983.
- Photochemistry Discussion Group One-Day Symposium on 'Time-Resolved Laser Raman Spectroscopy', 13 December 1983.
- B.301 Workshop meeting on 'Fast Reactions in Energetic Materials', 21-24 May 1984.
- Photochemistry Discussion Group One-Day Symposium on 'Intramolecular Energy and Electron Transfer', 11 December 1984.
- B.302 Photochemistry Discussion Group and Society for Free Radical Research Joint Meeting on 'Light and Free Radicals in Industry and Medicine', 21 June 1985.
- Joint Royal Institution and Royal Society of Chemistry Photochemistry Discussion Meeting on 'Recent Advances in Radiation Curing of Polymers', 12 December 1985.

Research

B.303 Correspondence, royalty statements *re* publication of symposia proceedings, 1982-1985.

B.304-B.382 PATENTS 1969-1984

B.304-B.314 'Patent Specification "Catalytic Photo-oxidation of Water" - Harriman and Porter (U.K. and 6 other countries)'. Contents of folder so inscribed divided into eleven for ease of reference, 1977.

Papers at B.304-B.307 were found in a folder which is preserved at B.304.

B.315-B.325 'Patent Specification "Photochemical Method and Apparatus (Solar Energy Collection)" - George Porter (UK and 6 other countries)'. Contents of folder so inscribed divided into eleven for ease of reference, 1977.

Papers at B.315-B.318 were found in a folder which is preserved at B.315.

B.326-B.344 'Patents I and II: Correspondence with Patent Agents'. Contents of folder so inscribed: 1977-1984.

B.326-B.334 Correspondence with Page, White & Farrer, Patent Agents *re* Patent Application 'Catalytic Photo-oxidation of Water' by Harriman and Porter', 1977-1984.

9 folders.

B.335-B.344 Correspondence with Page, White & Farrer, Patent Agents *re* Patent Application 'Photochemical Method and Apparatus (Solar Energy Converter)' by Porter, 1977-1981.

10 folders.

B.345-B.349 'Patent Specifications: Correspondence / Negotiations with National Research Development Corporation'. Contents of folder so inscribed divided into five for ease of reference: 1977-1984.

Research

- B.350-B.355 'Patent Specifications: Correspondence with Possible Industrial Collaborators'. Contents of folder so inscribed, 1977-1980.
- B.350 Correspondence with ICI *re* patent, 1977.
- B.351 Correspondence with International Synthetic Rubber Company Limited relating to Patent Application, 1977, 1979.

Includes photographs.
- B.352-B.354 Correspondence with Metal Box Ltd *re* Patent etc., 1977-1980.

3 folders.
- B.355 Miscellaneous correspondence, 1979-1980.
- B.356-B.382 Applied Photophysics/Dr M.A. West'. Contents of box so labelled: research notes, notebooks, correspondence *re* patents etc., 1969-1978.
- B.356-B.365 'Page, White & Farrer *re* Fluorimeter'. Contents of folder so inscribed divided into ten for ease of reference: correspondence with Patent Agents, Page, White & Farrer, patent applications etc, 1970-1977.
- B.366-B.373 'P[erkin] E[lmer] 1000 [Fluorimeter] Overseas Patents'. Contents of folder so inscribed divided into eight for ease of reference: correspondence, patent applications, printed papers etc, 1971-1978.
- B.374-B.377 'Perkin Elmer 1000 Fluorimeter'. Contents of folder so inscribed divided into four for ease of reference: correspondence, drafts, graphs, printed papers, 1969-1978.

The papers were found in considerable disorder.
- B.378-B.380 Contents of plastic wallet: correspondence, notes *re* photochromic research divided into three for ease of reference, 1975-1978.

Research

- B.381 Notebook inscribed 'Mike West' inside front cover. Includes experimental work dated 1971-1973.
- B.382 Notebook used for experimental work, n.d.