

Catalogue of the papers and correspondence of

**Brian Hilton Flowers FRS,  
Baron Flowers of Queen's Gate in the  
City of Westminster**

(b. 1924)

**VOLUME I**

List of Contents  
General Introduction  
Sections A - E

by Adrian Nardone and Alan Hayward  
NCUACS catalogue no. 76/5/98

Title: Catalogue of the papers and correspondence of Brian Hilton Flowers  
FRS, Baron Flowers of Queen's Gate in the City of Westminster (b. 1924),  
physicist

Compiled by: Adrian Nardone and Alan Hayward

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## GENERAL INTRODUCTION

### PROVENANCE

The papers were received in December 1995 and May 1998 from Lord Flowers and in April 1997 from the University of Manchester.

### OUTLINE OF THE CAREER OF LORD FLOWERS

Brian Hilton Flowers was born in Blackburn, Lancashire on 13 September 1924, although his family moved to Swansea, Wales in 1932. He attended Bishop Gore Grammar School, Swansea and was awarded a State Scholarship to Trinity College, Cambridge to read mathematics. However, Flowers was then offered a State Bursary to take physics and electronics at Gonville and Caius College, Cambridge, in order to assist the war effort. This guaranteed him two years of study before call-up, rather than one. At Gonville and Caius Flowers won an Exhibition and graduated with a wartime degree after two years. In September 1944 he crossed the Atlantic to join the Anglo-Canadian Atomic Energy Project in Canada, working initially at the University of Montreal until moving to Chalk River, Ontario in 1945.

Flowers returned to England in the summer of 1946 and began work at the Atomic Energy Research Establishment, Harwell, where he joined O.R. Frisch's group in the Nuclear Physics Division. His work during this period included measuring the thermal cross-section of tritium and devising a method of measuring the photodisintegration of the deuteron. In 1948 Flowers transferred to the Theoretical Physics Division at Harwell where he undertook work on nuclear reactions under M.H.L. Pryce. In 1950 Flowers was granted study leave to carry out research under R.E. Peierls at the Department of Mathematical Physics, University of Birmingham. During the next two years he worked largely on problems of nuclear structure relating to the nuclear shell model, in collaboration with A.R. Edmonds. His work during this period was the basis of his successful submission to the University of Birmingham for a D.Sc. in 1953.

In the autumn of 1952 Flowers returned to Harwell and was soon appointed Head of the Theoretical Physics Division in succession to K.E.J. Fuchs. He undertook to reconstruct the Division to make it more like a university department, whilst continuing with his own research in collaboration with J.P. Elliott. In 1958 Flowers was appointed Chief Research Scientist but decided in the same year to return to academic life at the University of Manchester, firstly as Professor of Theoretical Physics and then from 1961 as Langworthy Professor of Physics and Head of Department. At Manchester Flowers took on undergraduate teaching responsibilities and some of his lectures formed the basis of his book *Properties of Matter* published in 1970 (with E. Mendoza).

In 1967 Flowers took unpaid leave of absence from the University of Manchester and moved into scientific administration by accepting appointment for a term of five years as Chairman of the Science Research Council (SRC). During that period his achievements as Chairman included ensuring United Kingdom participation in the 300 GeV project at CERN and the SRC's establishment and development of the Engineering Board to sponsor and encourage engineering. He also succeeded in raising the SRC's public profile. In 1972 he agreed to a second term of office as Chairman, this time for three years, and resigned the Langworthy Professorship at Manchester. Almost immediately, however, he was offered and accepted the position of Rector of Imperial College of Science and Technology, London.

Flowers took up his duties as Rector of Imperial College in 1973 and in the same year was also appointed Chairman of the Royal Commission on Environmental Pollution, a position he held until 1976. The 4th, 5th and 6th Reports of the Royal Commission were published during his chairmanship and proved influential, with many of their recommendations subsequently accepted by Government. Flowers continued at Rector of Imperial College until 1985, when he was appointed as Vice-Chancellor of the University of London. Flowers retired in 1990, although he continued to play a very active part in public life and in 1994 was appointed Chancellor of the University of Manchester.

Flowers contributed articles to scientific periodicals about the structure of the atomic nucleus, nuclear reactions, science policy, energy and the environment. He published the books *Properties of Matter*, with E. Mendoza in 1970 and *An Introduction to Numerical Methods in C++* in 1995.

Flowers played an active role in public life from the 1960s, frequently acting as chairman of committees and other bodies. These include the Computer Board for Universities and Research Councils, 1966-1970, the Standing Commission on Energy and the Environment, 1978-1981, the Committee of Vice-Chancellors and Principals, 1983-1985, the House of Lords Select Committee on Science and Technology, 1989-1993 and the Nuffield Foundation, 1987-1998. Flowers served on the Advisory Council on Scientific Policy, 1962-1964 and the Council for Scientific Policy, 1965-1967, and was also President of several societies and organisations including the Institute of Physics, 1972-

1974, the European Science Foundation, 1974-1980 and the Parliamentary and Scientific Committee, 1993-1997.

Flowers was a founder member of the Social Democratic Party in 1981, having been persuaded to join by Shirley Williams MP. As a life peer he served, in his spare time, as a front bench spokesman on issues relating to science, education, energy and the environment until he decided in 1989 to return to the cross benches.

Flowers was accorded many honours and awards for his contributions to both science and public life. He was elected to the Fellowship of the Royal Society in 1961 and awarded the Rutherford Medal by the Institute of Physics and Physical Society in 1968. In the following year he received a knighthood and this was followed in 1979 with a life peerage. Flowers's achievements were also honoured by the French Government in 1975 and 1981 with the titles of Chevalier de la Légion d'Honneur and Officier de la Legion d'Honneur respectively.

#### DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the list of contents. It covers the period from the early 1940s to 1998.

Section A, Biographical, documents most stages of Flowers's career from 1958 to 1990, including papers relating to his various appointments and the honours and awards he received. His undergraduate studies at Cambridge are also represented, through five notebooks from the early 1940s. There is material reflecting his concerns for science education and research, as well as material relating to his wider political interests such as the Suez Crisis of 1956, the entry of Britain into the Common Market in 1971 and his resignation from the Social Democratic Party in 1989. The section also contains some family material, photographs of Flowers with colleagues at various functions and a large collection of press cuttings illustrating his public profile over the period 1969 to 1981.

Section B, University of Manchester, covers the career of Flowers at that institution from 1960 to 1967 when he was Professor of Theoretical Physics (1958-1961) and Langworthy Professor of Physics (1961-1967) and from 1994 to 1997 when he was Chancellor. There is correspondence and papers relating to University Grants Committee visits, the Department of Physics Steering Committee, the establishment of the Honours School of Liberal Studies in Science, and the office of Chancellor of the University of Manchester.

Section C, Research, consists of a notebook on pulse chambers from the late 1940s and a copy of Flowers's D.Sc. submission to the University of Birmingham in 1953.

Section D, Speeches, lectures and broadcasts, is substantial. Its principal component is a main sequence of invitation and public speeches and lectures covering the period 1946-1995. Flowers gave numerous speeches and lectures over the years especially during his Rectorship of Imperial College, London from 1973 to 1985 and these are well represented, as are his contributions to House of Lords debates from 1979 to 1995. There are also lecture courses which Flowers gave while a lecturer at University of Birmingham (1950-1952) and at the University of Manchester (1958-1967). There is some broadcast material for BBC radio over the period 1957 to 1983.

Section E, Publications, consists of a series of correspondence and drafts chiefly covering the late 1940s to early 1980s. As well as material relating to articles by Flowers and interviews about him there are also papers relating to his books *Properties of Matter* with E. Mendoza (John Wiley & Sons Ltd, 1970) and *An introduction to numerical methods in C++* (Clarendon Press, 1995) as well as two unpublished books from the 1950s entitled 'The Structure of Light Nuclei' and 'Group Theory and Nuclear Structure'. There is also editorial material from the 1970s and a large collection of offprints of Flowers's publications from the late 1940s to the 1990s.

Section F, Societies and organisations documents Flowers's involvement with numerous UK, overseas and international bodies over the period, 1957-1998. His interest in the policy-making and administration of higher education both at home and abroad is represented through papers relating to the Committee of Enquiry into the Organisation of the Academic Year, the Hong Kong University of Science and Technology, the Catching Up with European Higher Education Fund and the Hungarian Accreditation Committee. Flowers's association with the United Kingdom Atomic Energy Authority between 1958 and 1977 is well documented and there is also a considerable body of material relating to his chairmanship of the Computer Board for Universities and Research Councils, the National Physical Laboratory's Steering Committee, the House of Lords Select Committee for Science and Technology and the Nuffield Foundation. Political concerns are reflected through correspondence and papers relating to Pugwash Conferences for the period 1962-1967, while his continued interest and involvement in the affairs of Imperial College of Science and Technology, London and the University of London, following his retirement in 1990, are also well represented in this section.

Section G, Correspondence, includes an extensive sequence described by Flowers as 'personal correspondence', addressed to him in his various official capacities. The subject matter is broad, covering a wide range of professional issues and more personal matters relating to colleagues, friends and family. There is also a sequence of day files from 1990 to 1997. Other series of correspondence are those with J.W. Bray MP in 1966 and Lord Rothschild in the 1970s and 1980s. There is also a large sequence of references and recommendations.

There is also an index of correspondents.

#### ACKNOWLEDGEMENTS

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

A.F. Nardone  
A.P. Hayward  
BATH 1998

**SECTION A**

**BIOGRAPHICAL**

**A.1-A.180**

- A.1            BIOGRAPHICAL AND PERSONAL
  
- A.2-A.6        UNDERGRADUATE NOTEBOOKS
  
- A.7-A.137     CAREER, HONOURS AND AWARDS
  
- A.138-A.152   POLITICAL INTERESTS
  
- A.153-A.156   FAMILY
  
- A.157-A.165   PHOTOGRAPHS
  
- A.166-A.174   PRESS CUTTINGS
  
- A.175-A.180   MISCELLANEOUS BIOGRAPHICAL MATERIAL

**Biographical**

- A.1**                    **BIOGRAPHICAL AND PERSONAL**                    **1979**
- A.1                    Biographical sketch, 1p typescript, March 1979.
- A.2-A.6**                **UNDERGRADUATE NOTEBOOKS**                    **1940s**
- Flowers was an undergraduate student at Gonville and Caius College, Cambridge in the early 1940s.
- Arranged in alphabetical order by subject.
- A.2-A.6                Five notebooks with manuscript notes. 1940s. The subject titles on front and inside covers are reproduced in the entries below.
- A.2                    Hardback with intercalated material.  
                          'Electromagnetics'; 'Electricity and Magnetism (Field Theory)' (at back).
- A.3                    Softback with intercalated material.  
                          'Electronics'.
- A.4                    Softback.  
                          'Magnetism and electricity'.
- A.5                    Hardback.  
                          'Mechanics; Properties of matter; Quantum theory (at back)'.
- A.6                    Softback with intercalated material.  
                          'Mineralogy'.

**Biographical**

- |                  |                                   |                  |
|------------------|-----------------------------------|------------------|
| <b>A.7-A.137</b> | <b>CAREER, HONOURS AND AWARDS</b> | <b>1958-1990</b> |
|------------------|-----------------------------------|------------------|
- Arranged in chronological order.
- A.7 Atomic Energy Research Establishment, Harwell, 1958.  
Letter *re* promotion, 17 March 1958.  
Official Secrets Act declaration, 24 September 1958.
- A.8 Professor, Department of Theoretical Physics, University of Manchester, 1958, 1959.  
Flowers took up his duties on 1 October.  
Correspondence *re* appointment, February-July 1958; 1p typescript form *re* conditions of appointment inscribed 'Original signed 7/10/58' with 1p typescript note attached entitled 'The determination of office of a professor'.  
2pp typescript report by Flowers *re* 1958-1959 session of the Department of Theoretical Physics, *ca* 1959.
- A.9 Correspondence *re* offer of appointment as Deputy Director of the Atomic Energy Research Establishment, Harwell, (declined), February-May 1960.
- A.10, A.11 Langworthy Professor of Physics, University of Manchester, 1961-1972.  
Flowers took up his duties on 1 January 1961 and resigned on 30 September 1972. Flowers took leave of absence from the post in October 1967 to assume the Chairmanship of the Science Research. Flowers did not resume his chair and resigned on 30 September 1972.
- A.10 Correspondence *re* appointment, December 1960-February 1961; 1p typescript form *re* conditions of appointment (unsigned).
- A.11 Correspondence *re* resignation with 1p typescript resolution of thanks from the University Senate and Council attached, November 1972.

### Biographical

- A.12-A.15 Fellowship of the Royal Society. 1961.  
Letters and telegrams of congratulation. Flowers has numbered the letters 1-116 and has included some additional unnumbered letters at the end.  
4 folders.
- A.16 Award of M.Sc., University of Manchester. 1962.  
Letter informing Flowers of decision to award him degree, 16 May 1962.
- A.17 'Jobs rejected etc.'. Contents of folder so inscribed. 1964-1966.  
Correspondence *re* offers of appointments etc declined:  
Principal, University of Swansea, December 1964.  
Vice-Chancellor, University of Sheffield, March, April 1965.  
Letter from J. Fulton, Vice-Chancellor of the University of Sussex *re* Flowers career, 1 April 1965.  
National Physical Laboratory, Teddington, Middlesex, 28 July 1965.  
Principal, Queen Elizabeth College, University of London, November 1965.  
Vice-Chancellor of proposed new University for Northern Ireland, November 1965.  
Vice-Chancellor, University of Technology, Loughborough, Leicestershire, October 1966.
- A.18 'Farewell Card from Manchester 1967'. Contents of envelope so inscribed. 1967.  
Best wishes card with signatures.
- A.19-A.31 Chairman, Science Research Council. 1967-1973  
Flowers took up his duties on 1 October 1967 obtaining leave of absence from his post as Langworthy Professor of Physics at the University of Manchester in order to do so. He resigned from the Science Research Council on 30 September 1973.
- A.19 Correspondence *re* appointment including arrangements to take leave of absence from Langworthy Chair, October 1966-March 1967.

**Biographical**

- A.20-A.29            Letters of congratulation, January-March 1967.  
                         Arranged by surname.
- A.20                    A, B.
- A.21                    C, D.
- A.22                    F, G.
- A.23                    H, J.
- A.24                    K, L.
- A.25                    M, P.
- A.26                    R, S.
- A.27                    T, V.
- A.28                    W, Z.
- A.29                    Unidentified.
- A.30                    Letter of congratulation *re* re-appointment as Chairman, February 1972.
- A.31                    Correspondence *re* resignation, October 1973.

### Biographical

- A.32-A.48 Award of Knighthood, 1969.  
This honour was conferred on Flowers in the Birthday Honours List June 1969.
- A.32 Correspondence etc *re* notification of honour and arrangements for investiture ceremony, April-June 1969.
- A.33 Press cuttings etc, June 1969.
- A.34 Notebook with alphabetical list of persons who sent letters and telegrams of congratulation. *ca* June-September 1969.  
See also A.35-A.47.
- A.35-A.47 Letters and telegrams of congratulation, June-November 1969.  
Arranged by surname. Unindexed  
See also A.34.
- A.35 A.
- A.36 B.
- A.37 C.
- A.38 D.
- A.39 E, F.
- A.40 G.
- A.41 H.

### Biographical

- A.42 J-L.
- A.43 M.
- A.44 N-P.
- A.45 R, S.
- A.46 T-Z.
- A.47 Unidentified.
- A.48 'Investiture - July 1969', two 2pp typescript draft accounts by Lady Flowers *re* investiture of Sir Brian, *ca* July 1969.
- A.49-A.72 Appointment as Rector of Imperial College, London, 1973.  
Flowers took up his duties on 1 October 1973 and resigned in 1985.
- A.49, A.50 'Imperial College - appointment as Rector'. Contents of folder so inscribed divided into two for ease of reference. 1972-1973.
- A.49 Correspondence *re* appointment, March 1972- January 1973.
- A.50 Typescript papers *re* Murray Report on the governance of the University of London found with preceding, 1973.  
10pp minutes of Imperial College, London, Board of Studies special meeting, 10 January; two 6pp typescripts by the Board of Studies commenting on the report, with annotations, 14 February, 9 March.

### Biographical

- A.51-A.72 'Congratulations letters of Rectorship of Imperial College'. Contents of folder so inscribed, divided into twenty-two for ease of reference.
- A.51 Material *re* official announcement of appointment, 1972.  
  
1p typescript formal circular letter on behalf of Flowers, 26 May; 1p typescript press release from Imperial College, London, 26 May 1972; press cutting, *The Times*, 29 May 1972.
- A.52 6pp typescript address list of persons thanked by Flowers for their letters or telegrams of congratulation, *ca* May-July 1972.  
  
See also A.53-A.72.
- A.53-A.72 Letters and telegrams of congratulation, 1972.  
  
Arranged by surname.
- A.53 A.
- A.54 B.
- A.55 D.
- A.56 E.
- A.57 F.
- A.58 G.
- A.59 H.
- A.60 J.
- A.61 K.

**Biographical**

A.62 L.

A.63 M.

A.64 N.

A.65 P.

A.66 R.

A.67 S.

A.68 T.

A.69 V.

A.70 W.

A.71 Z.

A.72 Unidentified.

A.73 Honorary Fellowship, Gonville and Caius College, Cambridge. 1974.  
Letter of thanks from Flowers to the Fellows *re* his election, February 1974.

A.74 Chevalier de la Légion d'Honneur. 1975.  
Correspondence *re* award, January-February 1975.  
See also D.139.

### Biographical

- A.75                      Honorary Membership, Royal Irish Academy. 1976.  
  
1p typescript letter informing Flowers of election, 16 March 1976.
- A.76                      Knight of Mark Twain. 1978.  
  
1p typescript letter etc informing Flowers of his election, 18 October 1978.
- A.77-A.109              Award of Life Peerage, 1979.  
  
Flowers was appointed a life peer in the New Years Honours List of 1 January 1979.
- A.77                      'Press cuttings new year's honours list '78-'79'. Contents of folder so inscribed. December 1978-January 1979.
- A.78                      Announcement of honour in the Imperial College newsletter *Topic*, front page, 22 January 1979.
- A.79, A.80              'Introduction of Lord Flowers into House of Lords'. Contents of folder so inscribed, divided into two for ease of reference. Correspondence and papers. 1978-1979.  
  
The introduction took place on 28 March 1979.
- A.79                      December 1978-February 1979.
- A.80                      March-May 1979.
- A.81-A.83              'Maiden Speech'. Contents of folder so inscribed, divided into three for ease of reference. January-July 1979.  
  
Flowers gave his maiden speech in the House of Lords on 5 July 1979.  
  
Correspondence etc *re* proposed European and Economic Social Policy Research Institute and maiden speech.
- A.81                      17 January-5 February.

**Biographical**

- A.82                    8 February-19 June.
- A.83                    5 July, including 12pp A5 typescript of speech with annotations.
- A.84                    33pp typescript list of those sending letters and telegrams of congratulation to Flowers, *ca* January 1979.  
  
See also A.85-A.109.
- A.85-A.109            Letters and telegrams of congratulation etc, August 1978-April 1979.  
  
Arranged by surname. Unindexed  
  
See also A.84.
- A.85                    A.
- A.86                    B.
- A.87                    C.
- A.88                    D.
- A.89                    E.
- A.90                    F.
- A.91                    G.
- A.92                    H.
- A.93                    I.

**Biographical**

A.94 J.

A.95 K.

A.96 L.

A.97 M.

A.98 N.

A.99 O.

A.100 P.

A.101 Q.

A.102 R.

A.103 S.

A.104 T.

A.105 U.

A.106 V.

A.107 W.

A.108 Z.

### Biographical

- A.109 Unidentified.
- A.110 Officier de la Légion d'Honneur. 1981.  
1p photocopy of typescript letter to Flowers announcing the honour, 2 February 1981.  
See also D.279 and G.8.
- A.111 Proposal to elect Flowers Governor Emeritus of the Weizmann Institute of Science, Rehovot, Israel, (declined). 1983.  
Correspondence, November 1983, January 1984.
- A.112 Honorary D.Sc., University of Oxford. 1985.  
Encaenia booklet containing biographical notes on those receiving degrees on 26 June 1985.
- A.113-A.137 Vice-Chancellor, University of London. 1985.  
Flowers took up his duties on 1 September 1985 and retired in 1990.
- A.113 *Annual Report 1984-85*, Imperial College, London, 1985.  
Incomplete copy of Report with article *re* Flowers's retirement as Rector and appointment as Vice-Chancellor of the University of London.
- A.114-A.135 Letters of congratulation, November 1984-February 1985.  
Many of the letters below are accompanied by photocopies of Flowers's acknowledgements. Arranged by surname.
- A.114 A.
- A.115 B.
- A.116 C.

**Biographical**

A.117 D.

A.118 E.

A.119 F.

A.120 G.

A.121 H.

A.122 I.

A.123 J.

A.124 K.

A.125 L.

A.126 M.

A.127 N.

A.128 P.

A.129 Q.

A.130 R.

A.131 S.

**Biographical**

- A.132 T.
- A.133 W.
- A.134 Y.
- A.135 Unidentified.
- A.136 Honorary life membership, University of London Union. 1990.  
Certificate of honorary life membership, with typescript note attached, presented to Flowers on the occasion of his retirement as Vice-Chancellor, 3 May.
- A.137 Leaflet *re* presentation of graduates to Flowers as Vice-Chancellor, Royal Albert Hall, London, 9 May 1990.
- A.138-A.152 POLITICAL INTERESTS 1956-1990**
- A.138-A.147 Science policy and education
- A.148-A.151 General politics
- A.152 Visit to Bulgaria
- A.138-A.147 Science policy and education 1963-1974**
- A.138-A.140 'Politics'. Contents of folder so inscribed, divided into three for ease of reference. 1963-1966.  
Correspondence *re* the state of science administration and higher level science education in England and its future.
- A.138 May 1963, March 1965.
- A.139 April-July 1965.

### Biographical

- A.140 November 1965-December 1966.
- A.141-A.143 'Labour Party science meetings'. Contents of folder so inscribed, divided into three for ease of reference. 1964.
- Correspondence and papers *re* Bonnington Science Meeting, London, 29 February, 1 March 1964.
- The meeting concerned the Robbins Report (*Report of the Committee on Higher Education*, HMSO, 1963) and the Trend Report (*Report of the Committee of Enquiry into the Organisation of Civil Science*, HMSO, 1963).
- A.141 Extract from official report on the House of Commons Science Debate, 17pp typescript, 24 February 1964; 2p manuscript notes.
- A.142, A.143 Letter and papers *re* arrangements, 22 February 1964.
- 2 folders.
- A.144-A.146 'Eton Discussion 1967'. Contents of folder so inscribed, divided into three for ease of reference. 1967.
- Correspondence and papers *re* meeting at Eton College, Berkshire, to discuss the supply of graduate teachers in science, 23 May 1967. Flowers attended in his capacity as Chairman of the Science Research Council.
- A.144 *The demand for and supply of teachers 1963-1986*, HMSO, 1965.
- A.145 Correspondence and papers *re* arrangements including 9pp typescript discussion paper entitled 'The future of science education in Britain' by J. Goodier, March-April 1967.
- A.146 Includes correspondence with Tony Benn MP, Minister of Technology *re* findings of meeting.

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- A.147 Council of Engineering Institutions and Science Research Council Conference on Science and Technology, 30 October 1973.
- Flowers raised the issue of university education and its relationship to the Total Technology concept.
- Brief correspondence *re* amendments by Flowers to the account of his contribution in the report of the Conference, including 1p typescript extract with annotation, February 1974.
- A.148-A.151                      General politics    1956-1990**
- A.148 Suez Crisis. 1956.
- Copies of 1p typescript letter to Anthony Eden MP, Prime Minister and 1p typescript letter to A.M.S. Neave MP, Parliamentary Private Secretary to the Secretary of State for the Colonies, November 1956.
- A.149 Common Market entry. 1971.
- 'Common Market Correspondence'. Contents of folder so inscribed.
- Correspondence *re* Flowers's views on Britain's entry into the common market, July 1971.
- A.150 Israeli military policy in the Middle East. 1972.
- Correspondence *re* proposed letter from Flowers to A. Sabin, President of the Weizmann Institute of Science, Rehovot, Israel, September 1972.
- A.151 Resignation from Social Democratic Party. 1989-1990.
- Correspondence etc *re* Flowers's resignation, October 1989-March 1990.
- A.152                                      Visit to Bulgaria    1977**
- A.152 Visit to Bulgaria. 19-29 March 1977
- Flowers was invited to Bulgaria by the President of the Committee for Science, Technical Progress and Higher Education. At the time Flowers was Chairman of the Royal Commission on Environmental Pollution and President of the European Science Foundation.
- 17pp typescript report.

### Biographical

- |                    |  |                        |
|--------------------|--|------------------------|
| <b>A.153-A.156</b> | <b>FAMILY</b>  | <b>1947, 1971-1985</b> |
| A.153, A.154       | 'Correspondence <i>re</i> Father's death No 36 etc'. Contents of folder so inscribed, divided into two for ease of reference. 1947, 1971-1985.                           |                        |
|                    | Correspondence and papers <i>re</i> Flowers's parents, Harold Joseph Flowers and M.V. 'Madge' Flowers.   |                        |
|                    | 2 folders.   |                        |
| A.155              | 2pp typescript copy of letter by Flowers <i>re</i> his marriage, 17 February 1953.   |                        |
| A.156              | Letter and form <i>re</i> proposed application of Flowers's step-son to undergraduate study at Gonville and Caius College, Cambridge.                                    |                        |
| <b>A.157-A.165</b> | <b>PHOTOGRAPHS</b>   | <b>1960s-1990</b>      |
|                    | The photographs in folders A.158-A.160, A.162, and A.163, A.164 are accompanied by photocopies annotated by Flowers indicating persons, locations and dates where known. |                        |
| A.157              | Department of Theoretical Physics, University of Manchester, (two photographs), <i>ca</i> 1960s.   |                        |
| A.158              | First meeting of the Council for Scientific Policy, 1965.  |                        |
| A.159              | Visits made while Chairman of the Science Research Council, 1967-1973.   |                        |
|                    | NASA, Florida, USA.  |                        |
|                    | Royal Observatory, Edinburgh.  |                        |
| A.160              | Department of Theoretical Physics, University of Manchester, 1967.   |                        |
|                    | Daresbury Nuclear Physics Laboratory, Cheshire, [between 1967 and 1969].   |                        |

### Biographical

- A.161 'K Transparencies'. Contents of envelope so inscribed.  
Three transparencies of Flowers and his wife on the occasion of conferral of Knighthood on Flowers, July 1969.
- A.162 Conferral of Fellowship of Imperial College, London, 1972.  
Conferral of Honorary D.Sc., University of Wales, Aberystwyth, 1972.
- A.163 First Imperial College Commemoration Day Speech, Royal Albert Hall, London, 15 October 1973.  
See also D.92.
- A.164 Rutherford High Energy Laboratory, Chilton, Berkshire, ca 1970s.
- A.165 Retirement of W.M. Lomer, United Kingdom Atomic Energy Authority, Culham Laboratory, Abingdon, Oxfordshire, 1990.
- A.166-A.174 PRESS CUTTINGS 1969-1981**
- A.166-A.173 Folders of press cuttings, 1969-1979.  
The original reverse chronological order within each folder has been retained.
- A.166-A.170 Five folders each inscribed with 'Chairman Press Cuttings' and the years covered. 1969-1973.
- A.166 '1969'.  
December 1968-December 1969.
- A.167 '1970'.  
January-December 1970.

**Biographical**

- A.168 '1971'.  
December 1970-December 1971.
- A.169 '1972'.  
January-December 1972.
- A.170 '1973'.  
January-November 1973.
- A.171 February 1974-December 1975.
- A.172, A.173 Two folders each inscribed with 'Personal File Press Cuttings' and the years covered. 1976-1980.
- A.172 '1976'.  
January-December 1976.
- A.173 '1977, 78, 79 and 80'.  
January 1977-August 1980.
- A.174 'Miscellaneous Press Cuttings Sir Brian/Lord Flowers'. Contents of plastic sleeve so labelled. 1972-1981.  
  
Press cuttings, June 1972-December 1981 (including manuscript doodle on photograph of Flowers appearing on press cutting dated 7 December 1979); 1p manuscript doggerel inscribed 'Pomes [Poems] by Sir Denys Wilkinson not to be thrown away', n.d.

**Biographical**

<b>A.175-A.180</b>	<b>MISCELLANEOUS BIOGRAPHICAL MATERIAL</b>	<b>1961-1986</b>
A.175	Miscellaneous biographical correspondence. September 1961-April 1986.	
A.176-A.179	'Letters concerning Lord Flowers' ill-health, January to April 1985'. Contents of folder so labelled. Divided into four for ease of reference. 1985.	
A.176	January.	
A.177, A.178	February. 2 folders.	
A.179	March, June.	
A.180	Three University of London Vice-Chancellor seasonal greeting cards (each with a different illustration), ca 1986.	

**SECTION B UNIVERSITY OF MANCHESTER**

**B.1-B.29**

Flowers was Professor of Theoretical Physics at the University of Manchester from 1958 to 1961 and Langworthy Professor of Physics from 1961. In 1967 Flowers took leave of absence to assume the chairmanship of the Science Research Council (SRC) and in October 1972 he resigned his position as Langworthy Professor. His professional association with the University of Manchester was renewed when he was elected Chancellor in December 1994 and installed as such in a ceremony on 5 May 1995.

The material in this section has been arranged chronologically, it covers the periods 1960 to 1967 and 1994 to 1997.

B.1-B.3 Visit of the University Grants Committee (UGC) to the University of Manchester, 14-16 February 1961.

Flowers was appointed as a representative of the University Senate to meet the UGC on the occasion of their visit.

Correspondence and papers relating to the visit, 1960-1961.

3 folders.

B.4-B.6 Contents of folder inscribed 'Dept. of Physics Steering Cttee June 1961-Nov. 1966'. Divided into three for ease of reference.

Correspondence and printed matter *re* University of Manchester Department of Physics Steering Committee, 1961-*ca* 1966.

B.4 June 1961-*ca* 1964.

B.5 *ca* 1965.

B.6 *ca* 1966.

**University of Manchester**

- B.7-B.11                    Contents of folder inscribed 'Liberal studies in science', divided into five for ease of reference.
- Correspondence and papers *re* establishment of the Honours School of Liberal Studies in Science at the University of Manchester, 1962-1967.
- Flowers was a key figure in the establishment of this school designed to provide an education for those interested in the function and administration of science.
- See also D.537.
- B.7                            1962 July-November.
- B.8                            1964 April-1965 January.
- B.9                            1965 June-December.
- B.10                          1966 January-September.
- B.11                          1967 March.
- B.12                          Circular letter *re* survey of scientific and technological manpower by the UGC, 21 January 1965.
- B.13                          Correspondence and papers *re* UGC etc, 1965-1966.
- Includes papers *re* visit of the UGC to the University of Manchester on 10 and 11 November 1965.
- B.14                          Correspondence *re* proposed appointment of H. Kronberger as honorary Professor of Physics, December 1966-March 1967.
- B.15-B.29                    'University of Manchester Chancellor 1994-1997', contents of boxfile so inscribed, divided into fifteen for ease of reference. 1994-1997.
- The material below consists of two folders of correspondence *re* Flowers's election as Chancellor and one folder *re* installation details.

### University of Manchester

In December 1994 Flowers was elected Chancellor of the University of Manchester and installed on 5 May 1995.

- B.15-B.21 'University of Manchester 1994-end 1995'. Contents of folder so inscribed, divided into seven for ease of reference.
- Correspondence. 1994-1995.
- B.15 1994 September-December.
- B.16 1995 January-February.
- B.17 1995 March.
- B.18 1995 April, May.
- B.19 1995 June-August.
- B.20 1995 September.
- B.21 1995 October-December.
- B.22 Contents of folder *re* installation of Chancellor.
- 1p typescript statement of Vice-Chancellor announcing date of installation, 7 March 1995; programme; 'Fanfare for a new chancellor', 3pp sheet music composed by J. Casken for the installation ceremony; press cuttings, 9, 10 May 1995.
- B.23-B.29 'University of Manchester Jan 1996-Dec 1997'. Contents of folder so inscribed, divided into seven for ease of reference.
- Correspondence 1996-1997.
- B.23 1996 January, February.

**University of Manchester**

- |      |                          |
|------|--------------------------|
| B.24 | 1996 March.              |
| B.25 | 1996 April, May.         |
| B.26 | 1996 June, July.         |
| B.27 | 1996 August-October.     |
| B.28 | 1996 November, December. |
| B.29 | 1997 February-December.  |

**SECTION C**

**RESEARCH**

**C.1, C.2**

C.1

Softback notebook, *ca* 1947/1948.

'Theory of Pulse Chambers' inscribed on front cover. Contains manuscript notes, calculations, graphs, tables etc. Includes intercalated photograph of laboratory equipment.

'The notebook on pulse chambers was written for my own benefit. I was working on gridded pulse chambers at the time, and O R Frisch gave me some notes of his own on the subject. There was also some published stuff. I assembled what appeared relevant to my needs, working out a few things myself as I went along, although how much was original I can no longer guess. It was done while I was still in the Nuclear Physics Division in Harwell, around 1947-48.' (Lord Flowers, private communication, 10 April 1998).

C.2

D.Sc. submission 'Contributions to the theory of nuclear reactions and of nuclear structures' by Flowers, University of Birmingham, May 1953.

This contains some of Flowers' more important early research papers.

**SECTION D**

**SPEECHES, LECTURES AND BROADCASTS**

**D.1-D.577**

D.1-D.476 INVITATION AND PUBLIC SPEECHES AND LECTURES

D.1-D.469 Main sequence

D.470-D.476 Selected early speeches and lectures

D.477-D.572 TEACHING

D.477-D.525 Birmingham lecture course

D.526-D.572 Manchester lecture courses

D.573-D.577 BROADCASTS



### Speeches, lectures and broadcasts

#### 1948

- D.4 'Atomic energy for good or evil', Walter Road Congregational Church, [?], 7 March 1948.  
6pp manuscript.
- D.5 'Applications of atomic energy', Rotary Club, Swansea, 8 March 1948.  
6pp typescript.
- D.6 'Nuclear properties of the heavy elements', University College of Swansea, 10 March 1948.  
5pp manuscript.
- D.7 'The scattering of neutrons in helium', Harwell Colloquium, Atomic Energy Research Establishment (AERE), Harwell, Berkshire, April 1948.  
8pp manuscript.

#### 1950-1954

- D.8 'Theory of nuclear cross sections', Physics Colloquium, [?], 19 June 1950.  
9pp manuscript.
- D.9 'The nuclei above oxygen', with J.P. Elliott, Glasgow Conference, July 1952.  
6pp typescript + graphs and tables.
- D.10 'Nuclear power in the future', Rotary Club, Swansea, 22 June 1953.  
4pp typescript.
- D.11 'Statistical theory of fission', theoretical physics seminar, [?], 29 July 1953.  
7pp manuscript.

**Speeches, lectures and broadcasts**

- D.12 'Nuclear spectroscopy', Birmingham, July 1953.  
9pp typescript.
- D.13 'Imperial College Lectures', contents of folder so inscribed. ca October 1953.  
Flowers gave a series of eight lectures on 'Recent developments in the theory of the stationary states of nuclei', beginning 16 October 1953.  
1p typescript list of lectures with annotations; manuscript material for lectures, 39pp.
- D.14 'Low energy spectra of nuclei', Kapitza Club, Cambridge, 7 December 1954.  
11pp typescript draft with annotations.
- 1955**
- D.15 American Physical Society Meeting, [?], January 1955.  
7pp typescript describing research carried out on the Harwell cyclotron with J.M. Dickson and D.C. Slater.
- D.16 'Nuclear Physics Lectures'. Contents of folder so inscribed. May 1955.  
In May 1955 Flowers presented a series of six lectures on 'Recent developments in nuclear structure', at the Cavendish Laboratory, Cambridge.  
35pp typescript.
- D.17 'Theory of neutron reactions', Neutronics Symposium at the Atomic Energy Research Establishment, Harwell, Berkshire and Atomic Weapons Research Establishment, Aldermaston, Berkshire, 25-28 October 1955.  
7pp typescript; 2pp typescript programme and attached note.
- D.18 'The work of the Theoretical Physics Division, [Harwell]', Colloquium at University College, London, 1955.  
15pp typescript with annotations.

### Speeches, lectures and broadcasts

- D.19 'Low-lying energy levels of nuclei', Meeting of the Physical Society, Atomic Energy Research Establishment, Harwell, Berkshire 1955.  
5pp typescript + figures.
- D.20 'U.C.L.A. University of California, Los Angeles, Lecture course'. Contents of folder so inscribed. 1955.  
Flowers gave a series of six lectures on 'Recent developments in nuclear structure'.  
56pp typescript.
- D.21 'The structure of nuclei', Ritchie Lecture, University of Edinburgh, ca 1955.  
7pp typescript with annotations.
- D.22 'Betu-Brueckner theory of the nucleus', [?], ca 1955.  
14pp manuscript draft.
- 1956-1959**
- D.23 'Recent work at Harwell on nuclear structure', Copenhagen, Denmark, April 1956.  
13pp typescript with annotations and 1p manuscript notes.
- D.24 'Some reactor calculations of current interest', Stockholm, Sweden, April 1956.  
12pp typescript
- D.25 'Personal relations in a research establishment', Research Group Management Conference, AERE, Harwell, Berkshire, 20-24 May 1957.  
15pp typescript draft; published transcript of four talks given at conference including that given by Flowers, 27pp typescript with attached 7pp typescript entitled 'Communication in research work'.

### Speeches, lectures and broadcasts

- D.26 'Interpretation of transition probabilities in light nuclei', Moscow Conference on Nuclear Reactions, USSR, latest bibliographical reference 1957.  
6pp typescript + 4 diagrams.
- D.27 'Lecture series on nuclear physics', annotated 'AERE/TRE Malvern', ca 1958.  
Flowers gave six lectures.  
21pp typescript.
- D.28 Lecture on atomic energy, Administrative Staff College, Henley, ca 1958.  
10pp typescript.
- D.29 'Polarization of nuclear spins', [?], ca 1958.  
6pp manuscript draft.
- D.30 'Structure of the atomic nucleus', Manchester University Chemical Society, 19 November 1959.  
20pp manuscript draft with annotations.  
See also E.18.
- 1961-1966**
- D.31 'The fundamental structure of matter', Percival Lecture, [?], 1961.  
11pp typescript.
- D.32 'Symmetry in physics', Manchester Mathematical Society, 14 February 1962.  
11pp typescript draft with annotations and 2pp manuscript notes.
- D.33 'Organisation of civil research (as seen from a university)', [?], 25 April 1963.  
12pp typescript draft with annotations.

### Speeches, lectures and broadcasts

- D.34 Introduction of M. Ryle Guthrie Lecturer for 1964, [?].  
1p typescript.
- D.35 'Recent developments in nuclear structure', Institute of Physics and the Physical Society Conference, Liverpool, September 1965.  
17pp typescript draft with annotations.
- D.36 'The irrelevance of scientific research', Leeds, 12 October, 1966.  
33pp typescript draft with annotations.
- D.37 Talk on a report *re* computers for research, Department of Education and Science, London, 8 December 1966.  
Correspondence *re* arrangements, August-November 1966.

### 1967

- D.38 'Financing science', Nuclear Physics Conference Dinner, Manchester, 27 September 1967.  
Correspondence etc *re* arrangements and issues arising from speech, September-October 1967; 7pp typescript notes sent to Flowers by R. Lindgren, 21 September 1967; 7pp manuscript draft and 4pp typescript, *ca* September 1967.
- D.39 Annual Dinner, Institute of Physics, Liverpool and North Wales Branch, 23 November 1967.  
5pp typescript.
- D.40 'Technology and the research councils', Institution of Mechanical Engineers, North Western Branch, Manchester, 7 December 1967.  
47pp typescript draft.

### Speeches, lectures and broadcasts

#### 1968

- D.41 'Other research councils', IPCS [?Institution of Professional Civil Servants] Science Research Council Branch Annual Delegate Conference, [?], 10 February 1968.  
  
16pp typescript.
- D.42 Banquet speech, Fourth International Vacuum Conference, Manchester, 18 April 1968.  
  
7pp typescript.
- D.43 Chairman's opening speech, Second International Cryogenic Engineering Conference, Brighton, 7 May 1968.  
  
Correspondence etc *re* arrangements, December 1967-January 1968; 9pp typescript notes.
- D.44 Inauguration of Hybrid Computing Facility, University of Cambridge Engineering Department, 18 June 1968.  
  
Correspondence *re* arrangements etc, April-July; 15pp typescript of speech by Flowers; 8 photographs of the Computing Facility and the opening ceremony; 1p typescript programme; background material *re* control engineering studies.
- D.45 Reply on behalf of fellow honorary graduates, Degree Ceremony, University of Sussex, Brighton, 9 July 1968.  
  
15pp typescript draft.
- D.46 Opening speech, Summer School in Spectroscopy, Royal Institute of Chemistry, London, 4 September 1968.  
  
Correspondence *re* arrangements etc, June-September 1968; 10pp typescript draft with annotations.
- D.47 Address, Presentation Ceremony, Borough Polytechnic and National College for Heating, Ventilating, Refrigeration and Fan Engineering, London, 27 November 1968.  
  
9pp typescript draft with annotations.

### Speeches, lectures and broadcasts

#### 1969

- D.48                    Announcement of new radio telescope, Cavendish Laboratory, University of Cambridge, 6 February 1969.
- Correspondence *re* arrangements, January 1969; 6pp typescript; 3pp typescript draft with annotations.
- D.49                    'Science, industry and government', University of East Anglia, Norwich, 25 March 1969.
- 43pp typescript draft with annotations.
- D.50                    'Industry and the universities', Confederation of British Industries, Leeds, 17 April 1969.
- Due to illness Flowers was unable to give the lecture and it was delivered instead by C. Jolliffe.
- Correspondence *re* arrangements etc, September 1968-April; 3pp typescript notes; 19pp typescript draft with annotations.
- D.51                    'Science and society: priorities', Science and Technology Conference, Fabian Society, London, 12 July 1969.
- Correspondence *re* arrangements etc, April-August 1969; 3pp typescript proposal for conference; 3pp typescript programme; 4pp typescript report of conference proceedings and findings; 6pp manuscript notes for lecture by Flowers; 2pp article by unidentified author 'Would Mr Heath have more to offer', *Nature*, **222**, (21 June 1969).
- D.52                    After-dinner address, Conference on Computational Physics, Institute of Physics, [?], 30 July 1969.
- 13pp typescript with annotations.
- D.53                    1969 International Symposium on Electron and Photon Interactions at High Energies, University of Liverpool, 14-20 September 1969.
- Flowers appears to have addressed the conference on 18 September.
- 10pp manuscript notes for address inscribed 'Daresbury [Nuclear Physics Laboratory, Lancashire] 18/9/69'; 58pp typescript, list of participants, programme and list of contributions.

**Speeches, lectures and broadcasts**

- D.54                    Opening of King's College Computer Centre, King's College, London, 16 October 1969.
- 13pp typescript with annotations.
- 1970**
- D.55                    'Engineering and the SRC', Institution of Electrical Engineers, [?], 5 February 1970.
- 56pp typescript with annotations and 2pp manuscript notes of references.
- D.56                    'Science in universities', University of Nottingham, 6 March 1970.
- 17pp typescript.
- D.57                    Thanks for Lord Bessborough's opening speech, London Science Fair, British Association for the Advancement of Science, Imperial College, London, 13 July 1970.
- 3pp typescript.
- D.58                    Opening of the Sir Harold Hartley Computing Laboratory, University of Manchester Institute of Science and Technology, 2 October 1970.
- Correspondence etc *re* arrangements, July-October 1970; 18pp typescript draft; 7pp typescript draft with annotations; 6pp typescript paper + tables *re* grant aid from the University Science and Technology Board.
- D.59                    Memorial address for Hans Kronberger, West London Synagogue, 26 October 1970.
- '1970, The Kronberger File. Royal Society: Dr. Hans Kronberger', contents of folder so inscribed.
- Correspondence *re* memorial address, memorial service and biographical memoir by L. Rotherham, October 1970-June 1972; 17pp typescript draft with annotations.
- D.60                    Awards presentation address, Colchester Lathe Company Limited, Essex, 3 December 1970.
- 12pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.61 Awards presentation address, unidentified school, London, *ca* 1970.  
18pp A5 typescript
- D.62 Notes for French Institute, [?], *ca* 1970.  
2pp manuscript notes inscribed 'Notes for French Institute', n.d. with note attached *re* a speech by Flowers illustrating success stories resulting from Science Research Council support, 22 October 1970.
- 1971**
- D.63, D.64 Degree Conferment Ceremony address, Brighton Polytechnic, Sussex, 2 April 1971.
- D.63 Correspondence *re* arrangements etc, January-April 1971; programme.
- D.64 8pp typescript draft with annotations.
- D.65 Opening of Imperial College High Volt Electron Microscope, Imperial College, London, 20 April 1971.  
Correspondence etc *re* arrangements, February, April 1971; 4pp typescript draft with annotations; 4pp typescript.
- D.66, D.67 'Science, industry and government', Copenhagen, Denmark, [22] April 1971.
- D.66 Correspondence etc *re* arrangements, January-May 1971.
- D.67 36pp typescript.
- D.68 Annual Dinner, Institution of Chemical Engineers, Manchester, 27 April 1971.  
8pp typescript with annotations.

### Speeches, lectures and broadcasts

- D.69-D.71 'The scientific background of electrical engineering in the year 2000', Centenary Congress, Institution of Electrical Engineers, [?], 18 May 1971.
- D.69 Correspondence *re* arrangements, and in response to content of Flowers's speech, August 1970-July 1971; 4pp typescript of speech by H.K. Bourne entitled 'The emerging seventies', April 1970; 4pp typescript notes by W.D.H. Greening *re* Flowers's speech and resulting topics for discussion, 29 May 1971.
- D.70 20pp programme with synopsis of speech by Flowers and biographical note.
- D.71 23pp typescript.
- D.72 Opening of the Oxford Nuclear Physics Laboratory, 20 July 1971.  
  
Correspondence *re* arrangements, March-July 1971; 3pp typescript with annotations.
- D.73 'Science and the Common Market', British Association Meeting, Swansea, 6 September 1971.  
  
13pp typescript.
- D.74 NATO Advanced Study Institute, [?], 22 September 1971.  
  
8pp A5 typescript with annotations.
- D.75 Reply on behalf of guests, Weizmann Dinner, Weizmann Institute for Science, Rehovot, Israel, 20 October 1971.  
  
6pp typescript with annotations.
- D.76, D.77 'Technology and man', First Leverhulme Memorial Lecture, University of Liverpool, 25 October 1971.
- D.76 Correspondence *re* Flower's lecture, November 1971-February 1972; dinner seating plan, 25 October 1971.
- D.77 52pp typescript with annotations.

### Speeches, lectures and broadcasts

#### 1972

- D.78 Reply on behalf of guests, Pharmaceutical Society Dinner, [?], 29 February 1972.  
  
6pp typescript with annotations.
- D.79 Silvanus Thompson Memorial Lecture, British Institute of Radiology, London, 20 April 1972.  
  
16pp typescript.
- D.80 Graduation ceremony, Royal Military College of Science, Shrivenham, Wiltshire, 7 July 1972.  
  
13pp A5 typescript.
- D.81 Address at the CER's (Controller, Research and Development Establishments and Research) Winter Conference, Institution of Electrical Engineers, London, 8 December 1972.  
  
The address was a revised version of 'Engineering and the universities', Maitland Lecture 1972, Institution of Structural Engineers, Queen Elizabeth Hall, London, 9 November 1972.  
  
Correspondence *re* arrangements, October, November 1972. 1p manuscript notes; 6pp incomplete typescript draft with annotations + manuscript graphs and tables.

#### 1973

- D.82 'The idea of a research council', University of Newcastle Upon Tyne, 15 March 1973.  
  
Correspondence *re* arrangements, subsequent publication (*Physics Bulletin*, 24 (1973), pp 345-349); correspondence in reaction to lecture from colleagues, December 1971-July 1973; 18pp typescript; 5pp proof.
- D.83 'The organization of scientific research in the United Kingdom', Conference organised by the Association of Research Personnel of the Higher Council for Scientific Research (Spain), Madrid, 12 April 1973.  
  
16pp typescript draft with annotations.

**Speeches, lectures and broadcasts**

- D.84                    Toast to the Institution, Annual Dinner of the Institution of Civil Engineers, London, 16 April 1973.  
  
12pp A5 typescript with annotations.
- D.85                    'The Queen's Lecture', Berlin, West Germany, 23 May 1973.  
  
24pp typescript.
- D.86                    Address on receipt of Honorary D.Sc., University of Leicester, 13 July 1973.  
  
3pp typescript.
- D.87                    'Rector's welcome to postgraduate students', Imperial College, London, 1 October 1973.  
  
7pp typescript draft with annotations.
- D.88                    'Rector's welcome to undergraduate students', Imperial College, London, 1 October 1973  
  
5pp typescript draft with annotations.
- D.89                    Reply to farewell speech by Margaret Thatcher MP, Admiralty House, London, 4 October 1973.  
  
11pp A5 typescript draft with annotations.
- D.90                    Welcome address to guests at sherry party, College and Union Overseas Students Committees, Imperial College, London, 16 October 1973.  
  
Note and 2pp typescript notes for welcome address, 16 October 1973; 3pp typescript.
- D.91                    Speech, Farewell Dinner for Flowers, Science Research Council, 17 October 1973.  
  
11pp A5 typescript notes with annotations.

**Speeches, lectures and broadcasts**

- D.92 Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 15 October 1973.  
18pp A5 typescript with annotations.  
See also A.163.
- D.93 President's welcome, Reception to mark the 50th anniversary of the *Journal of Scientific Instruments (Journal of Physics E)*, Institute of Physics, London, 23 October 1973.  
3pp A5 typescript notes with annotations.
- D.94 'Reply by the rector to the toast to the guests', Annual Dinner, Royal College of Science Association, Imperial College, London, 9 November 1973.  
5pp A5 typescript with annotations.
- D.95 'Government administration of science', Institute of Physics, Scottish Branch, Edinburgh, 16 November 1973.  
11pp A5 typescript with annotations.
- D.96 'Gamekeepers and poachers', Old Centralians' Luncheon, [?], 13 December 1973.  
5pp typescript.
- 1974**
- D.97 Rector's welcome to Margaret Thatcher MP at hall dinner, Imperial College, London, 22 January 1974.  
2pp A5 typescript with annotations.
- D.98 Address, Presentation Ceremony for students of the Polytechnic of Central London, Royal Festival Hall, London, 25 January 1974.  
20pp A5 typescript with annotations.

### Speeches, lectures and broadcasts

- D.99                    Address by the President, Opening of the Institute of Physics Exhibition to mark the Physical Society Centenary, Science Museum, London, 14 February 1974.
- Includes 8pp A5 typescript with annotations; 1p proof of published version of speech entitled 'Past, present and future' in *Physics Bulletin*, **25**, (January 1974), p 8.
- See also D.105, E.31 and E.33.
- D.100                  Welcome address, Meeting with Schools, Imperial College, London, 18-29 March 1974.
- 8pp A5 typescript with annotations.
- D.101                  President's opening and plenary session addresses, Institute of Physics Franco-British Centenary Conference, St Helier, Jersey, Channel Islands, 5 April 1974.
- Opening address, 2pp typescript; plenary session address, 27pp typescript.
- D.102                  Presentation of the Holweck Prize, St Helier, Jersey, Channel Islands, 7 April 1974.
- 2pp typescript.
- D.103                  Welcome by the Rector, British Institute of Radiology 33rd Annual Congress, Imperial College, London, 18 April 1974.
- 14pp A5 typescript.
- D.104                  Possible lecture, unidentified, *ca* April 1974.
- 2pp manuscript notes; 2pp typescript notes; press cuttings *re* views of Lord Stokes, chairman of British Leyland Motor Corporation on higher education, 19 April 1974.
- D.105                  President's welcome to guests, Institute of Physics Centenary Banquet, London, 7 May 1974.
- 10pp typescript.
- See also D.99

**Speeches, lectures and broadcasts**

- D.106                      President's introduction, Institute of Physics Celebrity Lectures, London, 8 May 1974.  
  
12pp typescript.
- D.107                      Rector's welcome, Meeting of University Information Officers, Imperial College, London, 16 May 1974.  
  
6pp typescript.
- D.108                      Rector's introduction to K. Berrill, Second Joan Woodward Memorial Lecture, Imperial College, London, 30 May 1974.  
  
4pp typescript.
- D.109                      Open Day, Department of Physics, University of Surrey, Guildford, 12 June 1974.  
  
11pp A5 typescript draft intercalated with 5pp manuscript additions.
- D.110                      'The work of the Royal Commission on Environmental Pollution', National Society for Clean Air, Imperial College, London, 3 July 1974.  
  
46pp A5 typescript with annotations.
- D.111                      Speech of thanks on behalf of the Honorary Graduates, Congregation for Conferment of Honorary Degrees, University of Liverpool, 12 July 1974.  
  
16pp A5 typescript; printed orations, *ca* July 1974.
- D.112                      Rector's welcome, 11th International Congress on High Speed Photography, Imperial College, London, 15 September 1974.  
  
3pp typescript.
- D.113                      Rector's welcome to undergraduate freshmen, Imperial College, London, 30 September 1974.  
  
8pp typescript draft.

**Speeches, lectures and broadcasts**

- D.114 Rector's welcome to postgraduate students, 30 September 1974.  
6pp typescript.
- D.115 Rector's address, Imperial College, Commemoration Day, Royal Albert Hall, London, 24 October 1974.  
24pp A5 typescript with annotations.
- D.116 President's speech, European Science Foundation Dinner, Strasbourg, France, 18 November 1974.  
3pp typescript.
- D.117 Hall Dinner, Imperial College Silwood Park, Sunning Hill, Ascot, Berkshire, 22 November 1974.  
2pp A5 typescript notes with annotations; letter and note *re* arrangements, October, November 1974.
- D.118 Opening of the Braddick Library, Schuster Laboratory, University of Manchester, 9 December 1974.  
7pp typescript.
- D.119, D.120 Rector's farewell to Lord Sherfield, Board of Governors Meeting, Imperial College, London, 20 December 1974.
- D.119 1p typescript.
- D.120 7pp A5 typescript.
- 1975**
- D.121 Rector's address, Opening Ceremony for Computer Laboratory, Imperial College, London, 3 February 1975.  
8pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.122 Rector's speech, British Society for Social Responsibility in Science, Imperial College London Branch, 4 February 1975.  
2pp typescript notes.
- D.123 Rector's speech, Registrar's Dinner, Imperial College, London, 13 February 1975.  
3pp typescript notes.
- D.124 Address to the European Medical Research Councils (EMRC), [?], 11 March 1975.  
4pp typescript.
- D.125 European Science Research Councils Conference, Lady Margaret Hall, Oxford, 7, 8 April 1975.  
10pp typescript.
- D.126 Rector's introduction of O. Kahn-Freund, Third Joan Woodward Memorial Lecture, Imperial College, London, 7 May 1975.  
3pp typescript.
- D.127 Opening of Computer Gallery, Science Museum, London, 30 May 1975.  
2pp typescript.
- D.128 Rector's address, Control of Air and Water Pollution, British Council Course, Imperial College, London, 7 July 1975.  
3pp typescript.
- D.129 President's address, Social Science Meeting, European Science Foundation, Stockholm, Sweden, 23 July 1975.  
5pp typescript.

**Speeches, lectures and broadcasts**

- D.130                    Opening address, International Scientific Symposium on Man and His Environment - Crisis or Climacteric?, University of Birmingham, 18 September 1975.
- 30pp typescript with annotations.
- D.131                    Rector's welcome to undergraduate freshmen, Imperial College, London, 29 September 1975.
- 22pp A5 typescript.
- See also E.35.
- D.132                    Rector's welcome to postgraduate students, Imperial College, London, 29 September 1975.
- 14pp A5 typescript.
- D.133                    Rector's welcome to overseas students, Imperial College, London, 30 September 1975.
- 6pp A5 typescript with annotations.
- D.134                    Farewell address to A.R.J.P. Ubbelohde, Imperial College, London, 10 October 1975.
- 13pp A5 typescript with annotations.
- D.135                    Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 23 October 1975.
- 23pp A5 typescript.
- D.136                    Rector's introduction, University Grants Committee Visitation, Imperial College, London, 28 October 1975.
- 3pp typescript notes; 4pp manuscript notes.
- D.137                    Acceptance speech, Honorary Membership of the Institution of Electrical Engineers, [? London], 12 November 1975.
- 2pp typescript.

**Speeches, lectures and broadcasts**

- D.138 Rector's reply to Prime Minister's speech, Naming of Blackett Laboratory, Imperial College, London, 3 December 1975.

3pp A5 typescript.

- D.139 Acceptance speech, Conferment of the Chevalier de la Légion d'Honneur, Official Residence of the French Ambassador, Kensington Palace Gardens, London, 15 December 1975.

2pp A5 typescript with annotations.

See also A.74.

**1976**

- D.140 Opening of New Common Room, Department of Biochemistry, Imperial College, London, 3 March 1976.

2pp A5 typescript with annotations.

- D.141 Address, Committee on Science and Technology of the Parliamentary Assembly of the Council of Europe, [?], 25 March 1976.

17pp A5 typescript with annotations.

- D.142 Opening address, Symposium on Design for Need, Royal College Art, London, 12 April 1976.

7pp typescript.

- D.143 'Science in Europe', Monsignor Padrig de Brun Memorial Lecture, University College, Galway, Republic of Ireland, 23 April 1976.

71pp A5 typescript with annotations and 1p A5 manuscript intercalated addition.

- D.144 Introduction to the presidential address, Institute of Physics, London, 5 May 1976.

2pp typescript.

**Speeches, lectures and broadcasts**

- D.145                   Vote of thanks, Opening of the Charles Hayward Research Laboratory, Imperial College, London, 20 May 1976.  
  
2pp typescript.
- D.146                   Rector's introduction of Lord Ashby, Fourth Joan Woodward Memorial Lecture, 27 May 1976.  
  
5pp typescript.
- D.147                   British Council Scholars Dinner, [?], 21 June 1976.  
  
28pp A5 typescript with annotations.
- D.148                   Remarks, National Energy Conference, [?Imperial College, London], 22 June 1976.  
  
6pp A5 typescript with annotations and 1p manuscript addition.
- D.149                   Welcoming address, International Conference on Steel Plated Structures, Imperial College, London, 6 July 1976.  
  
10pp A5 typescript with annotations.
- D.150                   'The nuclear issue as seen by a watchdog of the public interest', Financial Times Conference on Nuclear power and the public interest, [?], 8 July 1976.  
  
24pp A5 typescript with annotations; 1p typescript distribution list.  
  
See also E.36.
- D.151                   Introduction to press conference, Nuclear Power and the Environment, Sixth Report of the Royal Commission on Environmental Pollution, London, 22 September 1976.  
  
13pp A5 typescript.
- D.152                   British Pugwash Group Discussion Meeting, [?], 28 September 1976.  
  
16pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.153 Rector's welcome to undergraduate freshmen, Imperial College, London, 4 October 1976.  
20pp A5 typescript.
- D.154 Rector's welcome to postgraduate students, Imperial College, London, 4 October 1976.  
14pp A5 typescript.
- D.155 Rector's welcome to overseas students, Imperial College, London, 5 October 1976.  
7pp A5 typescript.
- D.156 'Air pollution control: the recommendations of the Royal Commission', 43rd Clean Air Conference, National Society for Clean Air, Edinburgh, 13 October 1976.  
27pp A5 typescript with annotations and 1p manuscript addition; 1p typescript distribution list.
- D.157 Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 21 October 1976.  
22pp typescript with annotations.
- D.158 President's speech, European Science Foundation Dinner, [?], 26 October 1976.  
4pp A5 typescript.
- D.159 Speech *re* 2nd Annual Report of the European Science Foundation, British Embassy, Washington D.C., USA, 1 November 1976.  
3pp typescript notes.
- D.160 Speech annotated 'Presidents Introduction to the Annual Report: 1976', 1 November 1976.  
9pp typescript with annotations.

**Speeches, lectures and broadcasts**

- D.161 Academy of Sciences, Washington D.C., USA, 2 November 1976.  
8pp typescript.
- D.162 Rector's vote of thanks, Opening of the Huxley Building, Imperial College, London, 4 November 1976.  
3pp A5 typescript with annotations.
- D.163 Rector's introductory remarks, Meeting on Health and Safety in Universities, Imperial College, London, 25 November 1976.  
2pp typescript.
- D.164 'Nuclear power and public policy', British Nuclear Energy Society, [?], 2 December 1976.  
71pp A5 typescript with annotations; 19pp typescript draft distribution list with annotations, notes etc.  
See also E.37-E.39.
- D.165 Environment Committee, Chemical Industries Association Ltd, [?], 14 December 1976.  
12pp photocopy of annotated typescript draft.
- D.166 Speech to postgraduate students, Birkbeck College, London, 15 December 1976.  
10pp A5 typescript with annotations.
- 1977**
- D.167 Introductory remarks, Impact of a U.K. Fast Reactor Programme, Imperial College Energy Studies Group, Department of Mechanical Engineering, Imperial College, London, 15 January 1977.  
9pp typescript.

**Speeches, lectures and broadcasts**

- D.168                      Conservative Back Bench Committee, House of Commons, Westminster, London, 3 February 1977.  
  
9pp photocopy of annotated typescript draft.
- D.169                      Speech at Geographical Society Annual Dinner, University College London, 18 February 1977.  
  
13pp A5 typescript with annotations.
- D.170                      Rector's welcome to the Secretary of State for Education and Science, Meeting with Schools, Imperial College, London, 31 March 1977.  
  
6pp A5 typescript with annotations.
- D.171                      'The approach of the European Science Foundation', Science Policy Foundation Symposium on Strategies for Europe, Brussels, Belgium, 14-16 April 1977.  
  
Flowers delivered his speech on 15 April 1977.  
  
17pp typescript; 2pp typescript abstract; 1p typescript distribution list, 20 April 1977
- D.172                      Informal address, Anglo-Swedish Society and the Danish and Swedish Societies of Engineers in Great Britain, [?], 21 April 1977.  
  
33pp A5 typescript with annotations.
- D.173                      Rector's introduction of A. Weinstock, Fifth Joan Woodward Memorial Lecture, Imperial College, London, 11 May 1977.  
  
4pp A5 typescript with annotations.
- D.174                      Rector's introduction, Conference on Technological Assessment and Public Benefit, Council for Science and Society, Imperial College, London, 16 May 1977.  
  
4pp typescript.

**Speeches, lectures and broadcasts**

- D.175                    21st Plenary European Committee for Future Accelerators Meeting (ECFA),  
[?], 25 May 1977.  
  
2pp typescript notes.
- D.176                    Farewell Party for R. Malone, Imperial College, London, 29 June 1977.  
  
4pp A5 typescript with annotations.
- D.177                    'HMPI [?Her Majesty's Pollution Inspectorate] in wonderland and other  
vexations', National Society for Clean Air, [?], 6 July 1977.  
  
26pp A5 typescript with annotations; 1p typescript distribution list.
- D.178                    Opening of the Eastwood Muscular Dystrophy Research Facility, Imperial  
College, London, 7 September 1977.  
  
Note *re* distribution of copies; 5pp A5 typescript.
- D.179                    'The nuclear debate', Temple University, Philadelphia, Pennsylvania, USA,  
23 September 1977.  
  
62pp A5 typescript with annotations; 5pp typescript distribution list.  
  
See also E.41.
- D.180                    Rector's welcome to undergraduate freshmen, Imperial College, London, 3  
October 1977.  
  
16pp A5 typescript with annotations.
- D.181                    Rector's welcome to postgraduate students, Imperial College, London, 3  
October 1977.  
  
11pp A5 typescript.
- D.182                    Rector's welcome to overseas students, Imperial College, London, 4 October  
1977.  
  
7pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.183                   Address to visiting group of German university professors, Imperial College, London, 6 October 1977.  
  
5pp typescript; 27pp A5 typescript with annotations.
- D.184                   Prize giving, Hampton School, Middlesex, 10 October 1977.  
  
23pp A5 manuscript.
- D.185                   'Fast reactors and the fuel cycle', Royal Institution Forum, London, 11, 12 October 1977.  
  
15pp typescript;  
  
See also E.40.
- D.186                   Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 27 October 1977.  
  
14pp A5 typescript draft with annotations.
- D.187                   President's introduction to J.C. Kendrew's lecture, European Science Foundation, Palais des Congres, Strasbourg, France, 1 November 1977.  
  
4pp A5 typescript with annotations; 3pp A5 typescript with annotations (French).
- D.188                   President's introduction to the Annual Report 1977, European Science Foundation, Palais des Congres, Strasbourg, France, 1 November 1977.  
  
5pp typescript; 8pp A5 typescript.
- D.189                   Response to the toast of the guests, Annual Dinner, Institution of Mechanical Engineers, London, 10 November 1977.  
  
8pp A5 typescript with annotations.
- D.190                   Rector's opening speech, First Meeting of the Education Forum, Imperial College, London, 15 November 1977.  
  
3pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.191 Rector's vote of thanks to I. Maddock, First Jubilee Lecture, Imperial College, London, 22 November 1977.  
4pp A5 typescript.
- D.192 Annual Dinner, British Computer Society, Imperial College, London, 2 December 1977.  
13pp A5 typescript with annotations.
- D.193 Clean Air Dinner, National Society for Clean Air, [?], 9 December 1977.  
10pp A5 typescript with annotations.
- D.194 Rector's opening address, Nuclear Data Forum, Imperial College, London, 12 December 1977.  
4pp A5 typescript.
- 1978**
- D.195 Rector's address, installation of new computer system, Imperial College, London, 19 January 1978.  
4pp typescript; 7pp typescript
- D.196 'The nuclear debate', Royal Irish Academy, Dublin, Republic of Ireland, 28 January 1978.  
60pp A5 typescript.
- D.197 'Social consequences of nuclear dependence', Catholic Chaplaincy for West London, 19 February 1978.  
17pp typescript.
- D.198 Opening speech, Conference on New Energy Policies, Department of Extra-Mural Studies, University of London, 27, 28 February 1978.  
4pp typescript, 27 February 1978; 8pp A5 typescript with annotations; 2pp typescript programme etc.

**Speeches, lectures and broadcasts**

- D.199 Environmental Policy Making, Royal Commission on Environmental Pollution, [?], 22 March 1978.  
45pp A5 typescript with annotations.
- D.200 Rector's introduction of Lord Plowden, Meeting with Schools, Imperial College, London, 13 April 1978.  
4pp A5 typescript with annotations.
- D.201 Introduction of B.J. Mason, Institute of Physics Presidential Address, Department of Physics, Imperial College, London, 3 May 1978.  
2pp A5 typescript; 1p typescript notes *re* lecture by Mason and 1p typescript biographical note.
- D.202 'Energy and the environment - the public debate', Gerald Walters Memorial Lecture, University of Bath, Avon, 16 May 1978.  
27pp typescript; 56pp A5 typescript; 1p typescript distribution list.  
See E.43, E.44.
- D.203 Committee of Vice Chancellors and Principals (CVCP) Meeting with French University Presidents, Imperial College, London, 9 June 1978.  
16pp A5 typescript draft with annotations.
- D.204 Rector's introduction of M.F. Perutz, Opening of the Biophysics Section, Imperial College, London, 9 June 1978.  
5pp A5 typescript.
- D.205 Rector's introduction of Tony Benn MP, 'Industry and democracy', Second Jubilee Lecture, Imperial College, London, 15 June 1978.  
6pp A5 typescript.
- D.206 Dinner, Committee of Vice Chancellors and Principals (CVCP) Introductory Course for University Administrators, Imperial College, London, 13 September 1978.  
4pp typescript.

**Speeches, lectures and broadcasts**

- D.207 Rector's address, farewell drinks for C. Grey, Imperial College, London, 27 September 1978.  
4pp A5 typescript with annotations.
- D.208 'Energy and the environment - the public debate', 45th Clean Air Conference, Brighton, Sussex, 2 October 1978.  
47pp A5 typescript.
- D.209 Rector's welcome to undergraduate freshmen, Imperial College, London, 2 October 1978.  
9pp typescript.
- D.210 Rector's welcome to postgraduate students, Imperial College, London, 2 October 1978.  
14pp typescript.
- D.211 Rector's welcome to overseas students, Imperial College, London, 3 October 1978.  
7pp typescript.
- D.212 Rector's speech, ICI (Imperial Chemical Industries) Symposium Dinner, Imperial College, London, 11 October 1978.  
3pp A5 typescript with annotations.
- D.213 Rector's speech, Opening Ceremony, Anti-Racist Festival, Imperial College, London, 23 October 1978.  
6pp A5 typescript with annotations.
- D.214 Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 26 October 1978.  
4pp typescript.

**Speeches, lectures and broadcasts**

- D.215                      President's introduction of L. van Hove, Second Annual Lecture, European Science Foundation, Paris, France, 7 November 1978.
- 2pp A5 typescript.
- D.216                      President's introduction to the Annual Report, European Science Foundation, Paris, France, 7 November 1978.
- 9pp A5 typescript.
- D.217                      President's speech, Dinner, European Science Foundation, Jardins de l'Orangerie, Paris, France, 7 November 1978.
- 3pp typescript.
- D.218                      Chief guest's speech, 10th Anniversary Dinner, International Computers Limited (ICL), London, 15 November 1978.
- 12pp A5 typescript.
- D.219                      'The European Science Foundation', European Meeting of National Research Institutions, Rome, Italy, 20 November 1978.
- 16pp typescript with attached note.
- See also D.125.
- D.220                      Rector's speech, Annual Dinner, Royal College of Science Association, Imperial College, London, 24 November 1978.
- 4pp A5 typescript with annotations.
- D.221                      Rector's introduction of D. Davies, Sixth Joan Woodward Memorial Lecture, Imperial College, London, 28 November 1978.
- 4pp A5 typescript.
- D.222                      Farewell Party for L. Scarborough, Imperial College, London, 6 December 1978.
- 3pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

**1979**

- D.223 'European Science Policy', Department of Science and Technology, Delhi, India, 1 January 1979.  
  
16pp typescript with annotations.  
  
See also D.124.
- D.224 'The nuclear debate', Department of Science and Technology, Delhi, India, 2 January 1979.  
  
38pp typescript with annotations.
- D.225 Cocktail party in celebration of Flowers' peerage, [Imperial College, London], 16 January 1979.  
  
3pp A5 manuscript notes.
- D.226 'Problems of nuclear power', Colloquium on Nuclear Energy, Groupe de Belleve, Geneva, Switzerland, 15 February 1979.  
  
24pp typescript.
- D.227 'The work of the standing commission on energy and the environment', speech to the Parliamentary Liaison Group for Alternative Energy Strategies, House of Commons, London, 5 March 1979.  
  
35pp A5 typescript with annotations and attached distribution list.
- D.228 Rector's introduction of Sir John Hackett, Third Jubilee Lecture, Imperial College, London, 13 March 1979.  
  
4pp A5 typescript with annotations.
- D.229 'The work of the Commission on Energy and the Environment', Seminar to M.Sc. Environmental Technology students, Imperial College, London, 21 March 1979.  
  
45pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.230 Rector's address and introduction of G. Allen, Meeting with Schools, Imperial College, London, 29 March 1979.  
4pp A5 typescript.
- D.231 Chairman's introduction of D.E.C. Wedderburn, Inaugural Lecture, Department of Social and Economic Studies, Imperial College, London, 1 May 1979.  
4pp A5 typescript with annotations.
- D.232 Rector's welcome at 'Meet Imperial College', Imperial College, London, 2 May 1979.  
24pp A5 typescript with annotations.
- D.233 'The European Science Foundation - an experiment in international collaboration in science and the humanities', Tenth J.D. Bernal Lecture, Birkbeck College, London, 10 May 1979.  
43pp A5 typescript with annotations.
- D.234 Prize giving, Queenswood School, Hertfordshire, 24 May 1979.  
11pp typescript.
- D.235 Dinner, Lycée Français, [?], 20 June 1979.  
3pp typescript.
- D.236 Toast to the College, Foundation Dinner, Wolfson College, Oxford, 25 June 1979.  
6pp A5 typescript with annotations.
- D.237 Farewell Party for M.J. Davies, Imperial College, London, 27 June 1979.  
6pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.238 Annual Dinner, British Academy, Middle Temple Hall, London, 28 June 1979.  
20pp A5 typescript with annotations and 1p attached distribution list.
- D.239 Farewell Party for J. Webb, Imperial College, London, 29 June 1979.  
2pp A5 typescript.
- D.240 Farewell Party for F.W.G. Annas and J. Annas, Imperial College, London, 4 July 1979.  
3pp A5 typescript.
- D.241 Introduction of incoming president, D. Ezra by Flowers (outgoing president), Council Meeting, National Society for Clean Air, [?], 19 July 1979.  
3pp A5 typescript with annotations.
- D.242 Presentation Dinner, Total Technology Undergraduate Course in Mechanical Engineering, Imperial College, London, 11 September 1979.  
8pp A5 typescript with annotations.
- D.243 Farewell Party for D. Huddie, Imperial College, London, 25 September 1979.  
6pp A5 typescript with annotations.
- D.244 Rector's welcome to undergraduate freshmen, Imperial College, London, 1 October 1979.  
8pp A5 typescript.
- D.245 Rector's welcome to postgraduate students, Imperial College, London, 1 October 1979.  
9pp A5 typescript with annotations.
- D.246 Rector's welcome to overseas students, Imperial College, London, 2 October 1979.  
5pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.247                    Inauguration of session, Institution of Electrical Engineers, [?London], 4 October 1979.  
  
6pp A5 typescript with annotations.
- D.248                    Presentation of an ambulance by Imperial College to the British Red Cross Society, Imperial College, London, 30 October 1979.  
  
3pp A5 typescript.
- D.249                    Speech on receipt of Chalmers Medal, Chalmers University of Technology, Gothenberg, Sweden, 5 November 1979.  
  
6pp A5 typescript with annotations.
- D.250                    Rector's introduction of H. Phelps Brown, Seventh Joan Woodward Memorial Lecture, Imperial College, London, 4 December 1979.  
  
3pp A5 typescript.
- 1980**
- D.251                    Rector's introduction of A. Salam, Special Lecture, Imperial College, London, 18 February 1980.  
  
3pp typescript.
- D.252                    President's introduction to the Annual Report 1979, European Science Foundation, [?], [?1 March 1980].  
  
8pp A5 typescript.
- D.253                    Address to the Joint Medical Advisory Committee of the Academic and Collegiate Councils, [?], 11 March 1980.  
  
13pp A5 typescript.
- D.254                    Rector's introduction of Lord Denning, Fourth Jubilee Lecture, Imperial College, London, 13 March 1980.  
  
3pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.255 'International co-operation in science and humanities', Inaugural Einstein Memorial Lecture, Israel Academy of Science and Humanities, Israel, 25 March 1980.  
70pp A5 typescript.
- D.256 'Issues of nuclear power', Meeting of the Eye Constituency Labour Party, Leiston, Suffolk, 12 May 1980.  
19pp typescript.  
See also D.270.
- D.257 Response to the toast of the guests, Tenth Standard Telephones and Cables Communication Lecture, London, 13 May 1980.  
7pp A5 typescript with annotations; 'What to say and how to say it' by Edward Heath MP, published lecture.
- D.258 Rector's speech, Imperial College Association of Scientific, Technical and Managerial Staffs (ASTMS) Commemoration Dinner, Imperial College, London, 23 May 1980.  
4pp typescript.
- D.259 Farewell to H. Ford, Imperial College, London, 15 July 1980.  
4pp typescript.
- D.260 Rector's welcome to undergraduate freshmen, Imperial College, London, 29 September 1980.  
8pp typescript with annotations.
- D.261 Rector's welcome to postgraduate students, Imperial College, London, 29 September 1980.  
5pp typescript with annotations.
- D.262 Rector's introduction of T. Beckett, 25th Anniversary of Management Science, Imperial College, London, 15 October 1980.  
9pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.263 Retirement presentation to C. Newens, Imperial College, London, 31 October 1980.  
8pp A5 typescript.
- D.264 General Council and International Conference of the Duke of Edinburgh's Award, Imperial College, London, 5 November 1980.  
3pp A5 typescript.
- D.265 President's speech, General Assembly, European Science Foundation, [?], 12 November 1980.  
8pp typescript.
- D.266 'Nuclear power policy and prospects', Churchill College, Cambridge, 17 November 1980.  
29pp typescript with annotations and notes *re* distribution of copies.
- D.267 Rector's presentation speech, Imperial College award scheme for members of the non-academic and related staff, Imperial College, London, 26 November 1980.  
1p typescript notes with annotations; letter and attached details *re* scheme 27 February 1980.
- D.268 Prize giving, Tiffin School, Kingston-upon-Thames, Surrey, 5 December 1980.  
11pp typescript with annotations.
- 1981**
- D.269 Rector's introduction of W.K.H. Panofsky, Special Lecture, Imperial College, London, 14 January 1981.  
2pp typescript with annotations.

**Speeches, lectures and broadcasts**

- D.270 'Issues of nuclear power', Catholic Chaplaincy for West London, 18 January 1981.  
  
Correspondence *re* arrangements, October 1980-January 1981.  
  
See also D.257.
- D.271 Unveiling Ceremony of the Donald Campbell Laboratory, Department of Aeronautics, Imperial College, London, 11 February 1981.  
  
7pp A5 typescript with annotations.
- D.272 Opening of Imperial College International Week, Imperial College, London, 16 February 1981.  
  
7pp A5 typescript.
- D.273 Speech by Flowers in debate on the nature and organisation of research funded from the public purse, especially in relation to forestry.  
  
*The parliamentary debates (Hansard): House of Lords: official report*, H.M.S.O., **417**, 23 February 1981.  
  
See columns 910-913.
- D.274 Rector's introduction of P. Baxendell, Fifth Jubilee Lecture, Imperial College, London, 10 March 1981.  
  
4pp A5 typescript with annotations.
- D.275 Annual General Meeting, Royal College of Science Association, Imperial College, London, 5 May 1981.  
  
5pp A5 manuscript notes.
- D.276 'Prospects for Universities', Diplomatic Scientific Club, London Diplomatic Corps, 6 May 1981.  
  
Correspondence *re* arrangements, April, May 1981; 7pp A5 manuscript notes.

**Speeches, lectures and broadcasts**

- D.277 'Energy and the environment', 1981 Marc Finnegan Memorial Lecture, Kensington, London, 21 May 1981.  
  
31pp A5 typescript with annotations.
- D.278 'Fundamental research and the universities of Europe', Fifth Parliamentary and Scientific Conference, Committee on Science and Technology, Council of Europe, Helsinki, Finland, 3-5 June 1981.  
  
4pp typescript with 1p manuscript distribution list.
- D.279 Acceptance speech for Conferment of Officier de la Légion d'Honneur, Official Residence of the French Ambassador, Kensington Palace Gardens, London, 9 June 1981.  
  
3pp typescript (French).  
  
See also A.110 and G.8.
- D.280 Speech as guest of honour, Reception, Friends of the Hebrew University of Jerusalem, Royal Academy of Arts, London, 21 September 1981.  
  
6pp A5 typescript.
- D.281 Chairman's welcome, Press Conference to launch report on Coal and the Environment, Commission on Energy and the Environment, [?], 30 September 1981.  
  
6pp typescript.
- D.282 Rector's introduction of Lord McCarthy, Ninth Joan Woodward Memorial Lecture, Imperial College, London, 13 October 1981.  
  
3pp typescript with annotations and 1p typescript guest list.
- D.283 Rector's welcome, 'International Year of Disabled People (IYDP) and then...?', Active Autumn Conference, Imperial College, London, 17 October 1981.  
  
2pp typescript with annotations; programme.

**Speeches, lectures and broadcasts**

- D.284                      Guest speaker, Oxford Students' Social Democratic Club, Lincoln College, Oxford, 28 October 1981.
- 9pp typescript.
- D.285                      Rector's introduction of M. Finniston, Total Technology Dinner, Imperial College, London, 10 November 1981.
- 4pp A5 typescript.
- D.286                      Introduction of Lord Todd, Centenary Lecture, Royal College of Science Centenary Celebrations, Imperial College, London, 16-27 November 1981.
- 2pp A5 typescript with annotations, 16 November 1981; programme.
- D.287                      'Universities' contribution to industry, particularly in science and engineering', Universities and Industry, Committee of Vice-Chancellors and Principals Imperial College, London, 19 November 1981.
- 11pp typescript.
- D.288                      Speech in support of Shirley Williams Social Democratic Party candidate for Crosby, Lancashire, 1981 by-election, 21 November 1981.
- 8pp A5 typescript with annotations.
- D.289                      Rector's introduction of G. Holton, lecture, Imperial College, London, 24 November 1981.
- 4pp A5 typescript with annotations.
- D.290                      Guest speaker, Annual General Meeting, Kensington Committee of Friendship for Overseas Students, London, 25 November 1981.
- 7pp typescript.
- D.291                      Rector's welcome and introduction of A.F. Huxley, Royal College of Science Association Ball, Imperial College, London, 27 November 1981.
- 4pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.292                      Speech by Flowers in debate on the effects of Government policies on education, training opportunities and industrial efficiency, House of Lords, London, 2 December 1981.
- 11pp typescript with annotations.
- D.293                      Guest of honour, Jubilee Speech Day, Chislehurst and Sidcup Grammar School, Kent, 16 December 1981.
- 10pp typescript with annotations; programme; correspondence *re* issue raised in speech, March 1982.
- D.294                      Farewell for J. Brown, Imperial College, London, *ca* 1981.
- 4pp A5 manuscript.
- 1982**
- D.295                      Rector's introduction, Nuclear Power and Radioactivity: a short course for elected members of local authorities, Imperial College, London, 7-8 January 1982.
- 8pp typescript, 7 January 1982.
- D.296                      Rector's introduction of C. Freeman, First Science, Technology and Public Policy Lecture, Imperial College, London, 9 February 1982.
- 5pp typescript.
- D.297                      Speech by Flowers in debate on Tidal power from the Severn Estuary, House of Lords, Westminster, London, 15 February 1982.
- 11pp typescript with annotations.
- D.298, D.299              Speech by Flowers in debate on the first report of the Select Committee on Science and Technology on 'Science and Government', House of Lords, London, 15 February 1982.
- D.298                      17pp manuscript draft.
- D.299                      14pp typescript with annotations.

**Speeches, lectures and broadcasts**

- D.300 Rector's introduction of Lord Zuckerman, Sixth Jubilee Lecture, Imperial College, London, 18 February 1982.  
4pp A5 typescript.
- D.301 Rector's introduction of K. Cornfield, Imperial College Industrial Society, Imperial College, London, 9 March 1982.  
6pp typescript.
- D.302 Annual Dinner, 75th Anniversary of the British Federation of University Women, London, 19 March 1982.  
8pp typescript.
- D.303 Speech for Hong Kong Imperial College Alumni Association Meeting, Hong Kong, 20 April 1982.  
1p typescript.
- D.304 Speech for Hong Kong Imperial College Alumni Association Inauguration Dinner, Hong Kong, 20 April 1982.  
7pp typescript.
- D.305 Discussion evening on the report on coal and the environment, Fellowship of Engineering, [?], 11 May 1982.  
16pp typescript.
- D.306 Speech by Flowers in debate on the report of the Commission on Energy and the Environment entitled 'Coal and the Government', House of Lords, London, 19 May 1982.  
14pp typescript with annotations.
- D.307 Bearwood College Speech Day, [Wokingham, Berkshire], 19 June 1982.  
7pp typescript.

**Speeches, lectures and broadcasts**

- D.308 Meeting of the Parliamentary and Scientific Committee, House of Commons Grand Committee Room, London, 22 June 1982.  
12pp typescript with annotations.
- D.309 Symposium in commemoration of the late F. Schneider, Bonn, West Germany, 8 July 1982.  
15pp typescript with annotations.
- D.310 Opening speech, Britain, Europe and the Environment 1982, Centre for Environmental Technology Conference, [Imperial College, London] 24 September 1982.  
4pp typescript.
- D.311 Rector's welcome to undergraduate freshmen, Imperial College, London, 4 October 1982.  
7pp typescript with annotations.
- D.312 Rector's welcome to postgraduate students, Imperial College, London, 4 October 1982.  
5pp typescript.
- D.313 Rector's speech, 'Class of '42' 40th Anniversary Dinner, Imperial College, London, 16 October 1982.  
3pp typescript with annotations and 1p manuscript addition.
- D.314 Press Conference, Launch of Imperial Software Technology Ltd, [Imperial College, London], 18 October 1982.  
3pp typescript.
- D.315 49th Conference, National Society for Clean Air, Llandudno, Gwynedd, 18 October 1982.  
21pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.316 Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 28 October 1982.  
8pp typescript with annotations.
- D.317 Rector's introduction of Lord Caldecote, Guest of Honour, Total Technology Dinner, Imperial College, London, 9 November 1982.  
5pp typescript with annotations.
- D.318 Rector's speech, Dinner to celebrate the 75th anniversary of the granting of the Imperial College Royal Charter, Imperial College, London, 16 November 1982.  
8pp typescript with annotations.
- D.319 'Relationship between university research and national research agencies', CRE [?Conference of Rectors, Presidents and Vice-Chancellors of the European Universities] Conference, Hamburg, West Germany, 18-19 November 1982.  
14pp typescript.
- D.320 Rector's introduction of P. Baxendell, Third Pryor Memorial Lecture, Imperial College, London, 22 November 1982.  
3pp A5 typescript.
- D.321 Rector's speech and toast, Farewell dinner for B. Neal, Imperial College, London, 1 December 1982.  
5pp A5 typescript.
- D.322 Speech by Flowers in debate on the continued development of the commercial fast reactor, House of Lords, London, 8 December 1982.  
12pp A5 typescript with annotations.
- D.323 Introduction of D. Rooke, W.A. Simmonds and P.A. Cabbage, Nuffield Lecture, [?London], 9 December 1982.  
3pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.324 Retirement presentations to J. Lindley, A. Loveday, M. Loveday, L. Pelham and E. Whitehead, Imperial College, London, 13 December 1982.

8pp typescript with annotations.

- D.325 Prize giving at South Hampstead High School, Camden, London, 13 December 1982.

13pp typescript with annotations.

**1983**

- D.326 Speech by Flowers in debate on the second reading of the Water Bill, House of Lords, London, 7 February 1983.

9pp A5 typescript with annotations and 2pp A5 manuscript additions.

- D.327 Speech by Flowers in debate on report of the European Communities Committee on Strategic Minerals, House of Lords, London, 21 February 1983.

10pp A5 typescript with annotations.

- D.328 Speech by Flowers in debate on reactivating the Commission on Energy and the Environment, House of Lords, London, 21 February 1983.

8pp A5 typescript with annotations.

- D.329 Rector's introduction of B.A.O. Williams, Seventh Jubilee Lecture, Imperial College, London, 24 February 1983.

4pp A5 typescript.

- D.330 'Issues of nuclear power', Harrow School, London, 12 March 1983.

20pp typescript with annotations.

- D.331 Speech by Flowers in debate on the second reading of the Nuclear Material Offences Bill, House of Lords, 21 March 1983.

9pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.332                      Speech by Flowers in debate on Government policies for protecting the Environment, House of Lords, London, 23 March 1983.
- 13pp A5 typescript with annotations.
- D.333                      Rector's introduction of M. Bullock, Imperial College, London, 24 March 1983.
- 2pp A5 typescript.
- D.334                      'The painter and the swordsman: insulting tales for engineers', Sefi: Second World Conference on Continuing Engineering Education, Paris, France, 6-8 April 1983.
- 37pp A5 typescript with annotations; 11pp typescript (French).
- See also E.46.
- D.335                      'Issues and non-issues', International Conference on the Urban Transportation of Irradiated Fuel, London, 12-14 April 1983.
- 46pp typescript.
- D.336                      Rector's introduction of P.F. Chester, Imperial College, London, 13 April 1983.
- 3pp A5 typescript with annotations.
- D.337                      Convocation address, Technical University of Nova Scotia, Canada, 7 May 1983.
- 23pp A5 typescript with annotations and 1p A5 manuscript addition.
- D.338                      Speech in support of Shirley Williams, Social Democratic Party parliamentary candidate for Crosby, Lancashire, 1983 General Election, Hightown and Melling, Merseyside, 27 May 1983.
- 16pp A5 typescript and manuscript with annotations.
- D.339                      Farewell for D.D. Raphael, Department of Humanities, Imperial College, London, 27 June 1983.
- 5pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.340 Farewell for A. Sloman, Chairman of the Committee of Vice Chancellors and Principals, [?], 1 July 1983.  
3pp A5 typescript with annotations.
- D.341 'Using our technological expertise', Conference on Industry and Higher Education: Future Collaboration, London Business School, 7 July 1983.  
28pp A5 typescript with annotations.
- D.342 'Coal and the Environment', Annual Conference, Royal Institution of Chartered Surveyors, Stratford upon Avon, Warwickshire, 20 July 1983.  
34pp A5 typescript with annotations.
- D.343 'Improving collaboration between universities and industry', Cranfield/University of Manchester Institute of Science and Technology Conference, Imperial College, London, 21 July 1983.  
48pp A5 typescript.
- D.344 Introduction to Lord Caldecote, Guest of Honour, Cranfield/University of Manchester Institute of Science and Technology Conference, Imperial College, London, 21 July 1983.  
6pp A5 typescript with annotations.
- D.345 Chairman's introduction to discussion on lecture by B. Williams, Thirteenth Commonwealth Universities Congress, Birmingham, 14-20 August 1983.  
8pp A5 typescript with annotations.
- D.346 Committee of Vice Chancellors and Principals Special Meeting, Imperial College, London, 28 September 1983.  
1p typescript programme.
- D.347 Rector's welcome to undergraduate freshmen, Imperial College, London, 3 October 1983.  
21pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.348 Rector's welcome to postgraduate freshmen, Imperial College, London, 3 October 1983.  
18pp A5 typescript with attached note *re* amendments.
- D.349 Farewell for H. Evans, Imperial College, London, 11 October 1983.  
2pp A5 typescript.
- D.350 Rector's address, Imperial College Commemoration Day, Imperial College, London, 27 October 1983.  
14pp typescript with annotations.
- D.351 'Malaysians', Imperial College, London, 21 November 1983.  
1p manuscript notes.
- D.352 Rector's welcome to Dutch administrators, Imperial College, London, 23 November 1983.  
5pp A5 typescript notes with annotations.
- D.353 Rector's opening address, Seminar on Traffic in Towns - 20 Years On, Department of Civil Engineering, Imperial College, London, 23 November 1983.  
7pp A5 typescript.
- D.354 'After Flowers', Surgical Specialists Annual Dinner, [?], 2 December 1983.  
18pp typescript with 1p manuscript notes.
- 1984**
- D.355 Speech by Flowers in debate on the Alvey Report, House of Lords, London, 18 January 1984.  
14pp typescript with annotations.

**Speeches, lectures and broadcasts**

- D.356                      Speech by Flowers in debate on the first joint report by the Chairman of the Advisory Council for Applied Research and Development and the Advisory Board for the Research Councils etc, House of Lords, London, 10 February 1984.
- 13pp typescript with annotations.
- D.357                      Conference on Anglo-Korean Collaboration in Science and Technology, London School of Economics, 1 March 1984.
- 10pp typescript; correspondence *re* conference June 1984.
- D.358                      Annual Dinner, Medical Society of London, 8 March 1984.
- 6pp typescript.
- D.359                      Speech by Flowers in debate on the need for change in universities, polytechnics and colleges in higher and further education, House of Lords, London, 14 March 1984.
- 11pp typescript with annotations.
- D.360                      Rector's introduction of J. Egan, Eighth Jubilee Lecture, Imperial College, London, 15 March 1984.
- 2pp typescript.
- D.361                      Annual Dinner, Institution of Chemical Engineers, 16 March 1984.
- 5pp typescript.
- D.362                      Assembly dinner, Annual Assembly of the Engineering Professors' Conference, University of Surrey, Guildford, 22 March 1984.
- 13pp typescript.
- D.363                      Spring meeting on the public image of the universities, Standing Conference of University Information Officers, King's College, London, 23 March 1984.
- 16pp typescript.

**Speeches, lectures and broadcasts**

- D.364                      Symposium dinner, APCOM '84 Application of Computers and Mathematics in the Mineral Industries, Eighteenth International Symposium, Imperial College, London, 29 March 1984.
- 8pp typescript with annotations.
- D.365                      Speech by Flowers in debate on report on 'Remote sensing and digital mapping', House of Lords, Westminster, London, 25 April 1984.
- 15pp typescript with annotations; 1p incomplete typescript.
- D.366                      Toast to the Institution, Anniversary Dinner, Institution of Structural Engineers, London, 10 May 1984.
- 10pp typescript with annotations.
- D.367                      Rector's introduction of W. Rodgers MP, First O'Sullivan Lecture, Imperial College, London, 23 May 1984.
- 4pp A5 typescript with annotations and attached note *re* lecture details.
- D.368                      Rector's introduction of Sir Denys Wilkinson, Eighth Science, Technology and Public Policy Lecture, Imperial College, London, 5 June 1984.
- 3pp typescript with annotations.
- D.369                      Rector's welcome to undergraduate freshmen, Imperial College, London, 1 October 1984.
- 15pp typescript.
- D.370                      Rector's welcome to postgraduate freshmen, Imperial College, London, 1 October 1984.
- 13pp typescript.
- D.371                      Rector's address, Imperial College Commemoration Day, Royal Albert Hall, London, 25 October 1984.
- 12pp typescript with annotations and attached distribution list.

**Speeches, lectures and broadcasts**

- D.372                      Speech by Flowers in debate on the Tenth Report of the Royal Commission on Environmental Pollution, House of Lords, London, 29 October 1984.
- 11pp typescript with annotations and attached note *re* arrangements.
- D.373                      Prize giving presentations, College Award Scheme for Non Academic Staff, Imperial College, London, 5 November 1984.
- 5pp A5 typescript with annotations.
- D.374                      'University research and industrial development', National Autonomous University of Mexico, 13 November 1984.
- 9pp typescript.
- D.375                      'The ESF - the first twenty years!', Annual Lecture, European Science Foundation, Strasbourg, France, 20 November 1984.
- 12pp typescript.
- D.376                      Degree day, Newcastle Polytechnic, Newcastle Upon Tyne, 28 November 1984.
- 11pp typescript with annotations.
- D.377                      'The future of co-operation', Confederation of British Industry (CBI) Conference on Innovation Through Co-operation with Higher Education, [?], 29 November 1984.
- 10pp typescript with attached notes *re* speech.
- D.378                      Rector's address to senate, Imperial College, London, 12 December 1984.
- 2pp A5 manuscript notes.
- 1985**
- D.379                      Rector's welcome and introduction of N.S.H. Lamont MP, Major Projects Symposium, Imperial College, London, 4 January 1985.
- 5pp typescript.

**Speeches, lectures and broadcasts**

- D.380                    Symposium on Organisation of Basic Research in the United Kingdom, Imperial College, London, 10 January 1985.  
  
5pp typescript notes.
- D.381                    Farewell for V. Mooney, Imperial College, London, 13 May 1985.  
  
3pp A5 typescript with annotations.
- D.382                    Vote of thanks for N.L. Franklin, Imperial College Science Policy Research Unit Lecture, Imperial College, London, 4 June 1985.  
  
2pp typescript notes; 1p manuscript notes.
- D.383                    Introduction of P.L. Brooke MP, Opening of the IBM Institute Project, Department of Chemical Engineering and Chemical Technology, Imperial College, London, 27 June 1985.  
  
3pp typescript with annotations.
- D.384                    Rector's farewell to the Governors, Imperial College, London, 2 July 1985.  
  
13pp typescript with annotations.
- D.385                    Annual Dinner, British Student Health Association, Imperial College, London, 18 July 1985.  
  
3pp typescript.
- Schuster Centenary Celebration, Schuster Laboratory, University of Manchester, 23 November 1988.  
  
See also G.68, G.72.
- 1989**
- D.386                    Toast to the couple, Wedding of Monica Flowers (Flowers's sister) and Thomas Stiff, Headington, Oxford, 9 September 1989.  
  
3pp typescript.

**Speeches, lectures and broadcasts**

**1990**

D.387 Opening address, 40th Pugwash Conference, Egham, Surrey, 16 September 1990.

16pp A5 typescript with annotations.

See also G.101.

D.388 Reply to Vice Chancellor, Collegiate Council Dinner, Senate House, University of London, 8 October 1990.

12pp A5 typescript with annotations.

D.389 Dinner, Launch of the Imperial College Computing Forum, Imperial College, London, 19 October 1990.

11pp A5 typescript.

D.390 Vote of thanks to J. Ziman, 24th Science and Public Policy Lecture, Imperial College, London, 20 November 1990.

7pp A5 typescript with 1p manuscript addition.

D.391 Farewell dinner for L. Cohen, Cafe Royal, London, 4 December 1990.

12pp A5 typescript with annotations.

**1991**

D.392 Opening speech, University of London Interdisciplinary Research Centre for Semiconductor Materials, Imperial College, London, 11 February 1991.

6pp A5 typescript with annotations.

D.393 Conference banquet, First Annual Public Health Forum on Malaria - waiting for the vaccine, London School of Hygiene and Tropical Medicine, 16 April 1991.

10pp A5 typescript with annotations and 2pp manuscript additions.

**Speeches, lectures and broadcasts**

- D.394 Conference dinner, Annual conference, United Kingdom Environmental Law Association, Nottingham, 20 April.  
19pp A5 typescript with annotations.
- D.395 Tribute by Flowers, thanksgiving service for the life of D.F. Jackson, Guildford Cathedral, Surrey, 24 April 1991.  
17pp A5 typescript with annotations.
- D.396 Speech by Flowers in debate on education, House of Lords, London, 1 May 1991.  
13pp A5 typescript with annotations.
- D.397 Computer Board Commemorative Dinner, London Zoo, 2 May 1991.  
9pp A5 typescript with annotations.
- D.398 Speech by Flowers in debate on reports by the Select Committee on Science and Technology, House of Lords, London, 23 May 1991.  
19pp A5 typescript with 1p manuscript addition.
- D.399 Centenary dinner celebration for Goldsmith's College, London, Worshipful Company of Goldsmiths, London, 23 May 1991.  
22pp A5 typescript with annotations.
- D.400 Seminar on Research Evaluation, Oslo, Norway, 29 May 1991.  
21pp A5 typescript.
- D.401 'Science and politics in the House of Lords - another sort of peer review', Royal Norwegian Academy, Oslo, Norway, 30 May 1991  
58pp A5 typescript with annotations; 1p typescript note *re* lecture (Norwegian).  
The speech was later adapted for use on other occasions, see D.411, D.415.

**Speeches, lectures and broadcasts**

- D.402 Conference dinner, Conference on Developing Medical Education, University of London, 26 June 1991.  
19pp A5 typescript with annotations.
- D.403 Speech by Flowers in debate on amendments to the British Technology Group Bill, House of Lords, London, 27 June 1991.  
8pp A5 typescript with annotations.
- D.404 Presentations to Fellows, Lloyd's Tercentenary Foundation, [?London], 12 July 1991.  
6pp A5 typescript.
- D.405 Birthday speech, [?], 21 July 1991.  
1p A5 typescript notes.
- D.406 Speech by Flowers in debate on amendments to the British Technology Group Bill, House of Lords, London, 22 July 1991.  
10pp A5 typescript with annotations and 1p manuscript addition.
- D.407 Lunch, Nuffield Council on Bioethics, [?], 26 July 1991.  
1p typescript notes, small note paper format.
- D.408 Presentation Day, Goldsmith's College, London, 27 September 1991.  
6pp A5 typescript with annotations.
- D.409 Speech by Flowers in debate on amendments to the British Technology Group Bill, House of Lords, Westminster, London, 15 October 1991.  
6pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.410 'The case of the Nature Conservancy Council', Centre for Environmental Technology M.Sc. Lecture, Imperial College, London, 28 October 1991.  
9pp typescript.
- D.411 'Science and politics in the House of Lords - another sort of peer review', Centre for Environmental Technology, M.Sc. Lecture, Imperial College, London, 28 October 1991.  
11pp typescript.  
See also D.401, D.415.
- D.412 Speech by Flowers in debate on second reading of the Further and Higher Education Bill, House of Lords, London, 21 November 1991.  
3pp typescript; 11pp A5 typescript with annotations and 2pp manuscript additions.
- D.413 Speech by Flowers in debate on committee stage of the Further and Higher Education Bill, House of Lords, London, [21 November 1991].  
5pp A5 typescript with annotations.
- D.414 'The future of higher education', Court and Council, University of Bristol, 19 December 1991.  
13pp typescript; 56pp A5 typescript with annotations.

**1992**

- D.415 Annual Luncheon, Parliamentary and Scientific Committee, London, 26 February 1992.  
An earlier speech by Flowers, 'Science and politics in the House of Lords - another sort of peer review', appears to have been used as the basis for the Parliamentary and Scientific Committee speech.  
25pp A5 typescript with annotations; 13pp typescript of Flowers's 'Science and politics...' speech with annotations.  
See also D.401, D.411.

**Speeches, lectures and broadcasts**

- D.416 'Who wants nuclear weapons now?', Birmingham Town and Gown Club, Birmingham, 9 March 1992.  
24pp A5 typescript.
- D.417 Awards ceremony, Faculty of Science, Engineering and Mathematics, Middlesex Polytechnic, London, 4 April 1992.  
16pp A5 typescript with annotations.
- D.418 Speech by Flowers in debate on Queen's speech, House of Lords, London, 13 May 1992.  
12pp A5 typescript with annotations.
- D.419 Speech by Flowers in debate on safety aspects of ship design and technology, House of Lords, London, 1 June 1992.  
15pp A5 typescript with annotations.
- D.420 Speech by Flowers in debate on the committee work of the House, House of Lords, London, 3 June 1992.  
12pp A5 typescript with annotations.
- D.421 Opening speech, Conference on Technology Transfer and Implementation, Queen Elizabeth Conference Centre, London, 6 July 1992.  
16pp A5 typescript.  
See also G.162.
- D.422 Speech by Flowers in debate on systematic biology, House of Lords, London, 9 July 1992.  
16pp A5 typescript with annotations and 1p manuscript addition.
- D.423 Reception in memory of A. Sier, Imperial College, London, 15 July 1992.  
10pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.424                      Presentation of A. Rutherford for Honorary Fellowship of the College, Presentation Day, Goldsmiths' College, London, 26 September 1992.  
  
18pp A5 typescript with annotations.
- D.425                      Farewell to D. Tyrrell, Nuffield Foundation, London, 5 November 1992.  
  
1p typescript notes.
- 1993**
- D.426                      Introduction to R.E. Peierls, Lunch Time Lecture, Imperial College, London, 20 January 1993.  
  
8pp A5 typescript with annotations.
- D.427                      Introduction to interim report *Review of the academic year*, Higher Education Funding Council for England Annual Conference, Birmingham, 6 April 1993.  
  
34pp A5 typescript with annotations.
- D.428                      Speech by Flowers in debate on forensic science, House of Lords, London, 15 April 1993.  
  
15pp A5 typescript with annotations.
- D.429                      Introduction to interim report *Review of the academic year*, Higher Education Funding Council for Wales Seminar, Cardiff, 17 May 1993.  
  
36pp A5 typescript with annotations.
- D.430                      'Science and parliament', Czech Academy of Sciences, Prague, Czechoslovakia, 28 May 1993.  
  
59pp A5 typescript.
- D.431                      'Structure of the academic year', AGCAS [Association of Graduate Careers Advisory Service] Conference, London, 9 June 1993.  
  
38pp A5 typescript with annotations.

### Speeches, lectures and broadcasts

- D.432 'Structure of the academic year', Northern Universities Working Group, Sheffield, 15 June 1993.  
34pp A5 typescript with annotations.
- D.433 'Innovate or perish', North West Innovation Lecture, Manchester, 12 October 1993.  
69pp A5 typescript with annotations.
- D.434 Welcome to the Chinese Committee for Science and Technology, Parliamentary and Scientific Committee, London, 12 November 1993.  
6pp A5 typescript with annotations.
- D.435 Dinner speech, Parliamentary and Scientific Committee, Chinese Embassy, London, 12 November 1993.  
7pp A5 typescript.
- D.436 Press launch *re* report *Review of the academic year*, Senate House, University of London, 1 December 1993.  
9pp A5 typescript with annotations.
- D.437 Talk *re* report *Review of the academic year*, 5th Annual Conference on 'Europe and beyond', European Association for International Education, The Hague, Netherlands, 3 December 1993.  
29pp A5 typescript with annotations.
- 1994**
- D.438 Talk *re* report *Review of the academic year*, Access and Community Education Services Conference, London 14 January 1994.  
45pp A5 typescript.

### Speeches, lectures and broadcasts

- D.439 Welcome and toast to guests, Annual Luncheon, Parliamentary and Scientific Committee, London, 2 February 1994.  
9pp A5 typescript with annotations.
- D.440 Speech by Flowers in debate on statutory instruments *re* scientific research, House of Lords, London, 7 February 1994.  
11pp A5 typescript with annotations.
- D.441 Faculty Research Day Programme, Middlesex University, London, 9 February 1994.  
8pp typescript notes with annotations and 1p manuscript notes.
- D.442 Speech by Flowers in debate on the report *Priorities for the science base*, House of Lords, Westminster, London, 3 March 1994.  
22pp A5 typescript with annotations.
- D.443 Talk *re* report *Priorities for the science base*, London Diplomatic Science Club, 21 March 1994.  
25pp A5 typescript with annotations.
- D.444 Speech by Flowers in debate on his move to amend the Education Bill 1994, House of Lords, London, 22 March 1994.  
9pp A5 typescript with annotations.
- D.445 Introduction to B. Wiik and the First Pickavance Lecture, Rutherford Appleton Laboratory, Oxford, 21 April 1994.  
7pp A5 typescript with annotations.
- D.446 Council dinner, General Dental Council, [?], 10 May 1994.  
19pp A5 typescript.

**Speeches, lectures and broadcasts**

- D.447                      Presentation Speech to St Mungo and Centrepoint, 50th anniversary of the Nuffield Foundation, Nuffield Foundation, London, 6 July 1994.
- 7pp A5 typescript.
- D.448                      Response to the toast of the guests, Livery dinner, Tallow Chandlers Company, 17 November 1994.
- 8pp A5 typescript with annotations.
- D.449                      Opening address, Annual Residential Conference on Communication, Learning and Technology, Association for Colleges, Glasgow, 22 November 1994.
- 19pp A5 typescript with annotations.
- D.450                      Opening address, General Assembly, European Science Foundation, Strasbourg, France, 24 November 1994.
- 21pp A5 typescript with annotations.
- 1995**
- D.451                      President's toast to the guests, Annual Luncheon, Parliamentary and Scientific Committee, London, 22 February 1995.
- 6pp A5 typescript with annotations.
- D.452                      'Environmental policy: the last 25 years and the next 25 years', Jubilee Seminar, Royal Commission on Environmental Pollution, London, 28 March 1995.
- 13pp A5 typescript with annotations.
- See also G.193, G.194.
- D.453                      Chancellor's speech, Convocation dinner, University of Manchester, 29 April 1995.
- 14pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.454                      President's vote of thanks, Presentation of Beacon awards by T. Boswell, Institution of Mechanical Engineers, London, 3 May 1995.
- 3pp A5 typescript with annotations.
- D.455                      Chancellor's response, Inauguration of the Chancellor, University of Manchester, 9 May 1995.
- 8pp A5 typescript.
- D.456                      Speech by Flowers in debate on second reading of Atomic Energy Authority Bill, House of Lords, London, 19 May 1995.
- 7pp A5 typescript with annotations.
- D.457                      Farewell dinner for J.L. Knill, Radioactive Waste Management Advisory Committee, St Ermin's Hotel, [?], 31 May 1995.
- 11pp A5 typescript.
- D.458                      President's speech, Annual General Meeting Reception, Association for Colleges, House of Commons, London, 14 June 1995.
- 6pp A5 typescript.
- D.459                      Chancellor's address, Degree Ceremony, University of Manchester, 3 July 1995.
- 7pp A5 typescript with annotations.
- D.460                      Speech by Flowers in debate on second reading of the Queen Mary and Westfield College Bill, House of Lords, London, 19 July 1995.
- 7pp typescript with annotations.
- D.461                      Address by Flowers at Annual Prize Giving, Colston Girls' School, Bristol, 22 September 1995.
- 13pp A5 typescript with annotations.

**Speeches, lectures and broadcasts**

- D.462 Funeral address for R.E. Peierls, Oxford Crematorium, Oxford, September 1995.  
9pp A5 typescript with annotations.
- D.463 Speech by Flowers as President of the Association for Colleges, Opening of New Building, Barnet College, London, 6 October 1995.  
8pp A5 typescript with annotations.
- D.464 Introduction, as President of the Association for Colleges, Conference on Catchwords and Policies, Association for Colleges, London, 26 October 1995.  
7pp A5 typescript with annotations.
- D.465 Chancellor's speech, Honorary Masters Degree Ceremony, University of Manchester, 1 November 1995.  
5pp A5 typescript with annotations.
- D.466 Videoconference launch, East Anglian Distance Learning Project, BT Centre, [?], 16 November 1995.  
6pp A5 typescript with annotations.
- D.467 Welcome speech, 1995 Annual Conference, Association for Colleges, London, 21 November 1995.  
3pp typescript.
- D.468 Chancellor's speech, University of Manchester Annual Alumni Dinner, The Reform Club, London, 1 December 1995.  
12pp A5 typescript with annotations.
- D.469 Chancellor's response, 'Spade in the ground ceremony', Chancellor's House, University of Manchester, 7 December 1995.  
6pp A5 typescript.

**Speeches, lectures and broadcasts**

- | <b>D.470-D.476</b> | <b>Selected early speeches and lectures</b>  | <b>1956-1965</b> |
|--------------------|--|------------------|
|                    | 'Selected early speeches and lectures by Brian Hilton Flowers IC September 1985'. Contents of folder so labelled. 1956-1965.   |                  |
| D.470, D.471       | 'The structure of the nucleus', Salford Lectures, [?], 1956.<br><br>A series of two lectures.  |                  |
| D.470              | 'Lecture 1 Nuclear Forces', 12pp manuscript.   |                  |
| D.471              | 'Lecture 2 Nuclear Structure', 10pp typescript.  |                  |
| D.472              | 'High energy physics', Properties of Matter Colloquium, [?], 18 March 1959.<br><br>22pp manuscript.  |                  |
| D.473              | 'Some reflections on reactor theory', [?], ca 1950s.<br><br>13pp manuscript.   |                  |
| D.474              | Going down dinner, Ashburne Hall, University of Manchester, July 1961.<br><br>4pp typescript, small note paper format.   |                  |
| D.475              | 'Science, state, society', Old Dy'vorians, Swansea, 18 October 1962.<br><br>20pp typescript.   |                  |
| D.476              | After dinner speech, Old Dy'vorians Annual Dinner, Swansea, 1 March 1965.<br><br>Correspondence <i>re</i> arrangements and biographical profile for the <i>Western Mail</i> ; 10pp A5 typescript; etc. |                  |



**Speeches, lectures and broadcasts**

- D.481 4. 'Normalisation and orthogonality', 'Expansion theorem', 8pp.
- D.482 5. 'Free Rotator', 'Continuous eigen values', ' $\delta$ -function', 7pp.
- D.483 6. [' $\delta$ -function'], 'Momentum representation', 'Harmonic oscillator', 12pp.
- D.484 7. 'Properties of Hermite polynomials', 4pp.
- D.485 [8]. 'Periodic potential', 'Uncertainty principals and complementarity', 23pp.
- D.486 9. 'Minimum uncertainty product', 'Spread of a wave packet with time', 6pp.
- D.487 10. 'Three dimensional wave equation', 4pp.
- D.488 11. 'Properties of the Legendre polynomials', 6pp.
- D.489 12. ['Angular momentum operators'], '3-dimensional square well potential', 7pp.
- D.490 13. 'Hydrogen atom (Bound States)', 'Momentum distribution of H-atom ground state', 10pp.
- D.491 14. 'Collision Problems', 10pp.
- D.492 15. 'Phase shift', 'Matrices', 7pp.
- D.493 16. ['Matrices and linear transformations'], 8pp.
- D.494 17. ['Matrix mechanisms'], 11pp.

**Speeches, lectures and broadcasts**

- D.495 18. 'Solution of Harmonic Oscillator in matrix mechanisms', 'Transformation from Schrödinger to Heisenberg equation of motion', 4pp.
- D.496 [19]. 'Angular momentum', 9pp.
- D.497 20. 'Variational method', 5pp.
- D.498 21. 'Helium atom', 7pp.
- D.499 22. 'Perturbation theory, (non-degenerate and discrete case)', 7pp.
- D.500 23. 'Stark effect of a one dimensional harmonic oscillator', 'Slightly anharmonic oscillator', 'Degenerate case', 'Discrete spectrum', 7pp.
- D.501 24. ['?Degeneracy in perturbation theory: two electron atom'], 'Stark effect in hydrogen', 7pp.
- D.502 25. 'A generalized perturbation treatment', 'Contour integration', 'Cauchy, Taylor, Laurent theorems', 'Singularities', 'Calculus of residues', 'Sketch of theory of contour integration', 'Perturbation treatment in the continuum: Born's approximation', 'Green's function', 13pp.
- D.503 26. 'Born approximation formula', 7pp.
- D.504 27. 'Rutherford formula', 'Complete integral equation for scattering', 'Transition matrix', 'Greens function', 'Phase shifts', 17pp.
- D.505 28. 'Time dependent perturbation theory', 5pp.
- D.506 29. 'Elastic scattering', 'Interaction representation', 15pp.
- D.507 30. '[Hamiltonian] oscillating in time', 'Theory of radiation', 'Hamiltonian for charged particles in electromagnetic field', 7pp.

**Speeches, lectures and broadcasts**

- D.508 31. ['Hamiltonian for charged particles in electromagnetic field'], 6pp.
- D.509 [32]. 'Spontaneous emission', 'Live breadth', 'Derivation of Planck's radiation hypothesis', 6pp.
- D.510 33. 'Quantization of the radiation field', 6pp.
- D.511 34. 'Methods depending upon  $\partial H/\partial t$ ', 6pp.
- D.512 35. 'Sudden approximation', 6pp.
- D.513 36. 'Identical particles', 'Distinguishability', 'Exclusion principle', 5pp.
- D.514 37. 'Spin', 'Addition of angular momenta', 'Spins of several particles', 6pp.
- D.515 38. 'Spin functions', 6pp.
- D.516 39. 'H-atom zero order perturbation [wave functions]', 'Scattering of identical particles', 'Exchange collisions of electrons with hydrogen', 7pp.
- D.517 40. 'Relativistic quantum mechanics', 'Diracs theory of the electron', 6pp.
- D.518 41. 'Dirac equation', 6pp.
- D.519 42. ['Diracs equation for the electron, anomalous magnetic movement of the electron'], 'Large and small components', 6pp.
- D.520 43. ['Large and small components'], 'Angular momentum', 'Polar variables, Hydrogen atom', 'Negative energy solutions', 12pp.
- D.521 44. 'Nuclear dispersion theory', 'Orthogonality', 4pp.

**Speeches, lectures and broadcasts**

- D.522 45. 8pp.
- D.523 46. 6pp.
- D.524 [47]. 'The Born-Oppenheimer approximations', 'Rotational and vibrational motion', 9pp.
- D.525 [48]. 'Crystal dynamics. The Phonon Field. 1. The Linear Chain', 'Specific heat', 'Fermi pseudo potential', 11pp.
- D.526 [49]. [?'Neutron scattering by crystals: Debye-Walter factor', 8pp].
- D.527 2pp manuscript entitled 'Further examples', 2pp manuscript calculations entitled 'Perturbation Theory in Matrix Form'.
- D.528-D.572 Manchester lecture courses 1958-1967**
- D.528-D.534 'The University of Manchester'. Contents of ring binder so inscribed, divided into seven for ease of reference. ca 1958-1960.
- D.528 'Electromagnetism 1958-9', 2pp typescript.
- D.529-D.534 'Relativity and Electrodynamics', 99pp manuscript lecture course so inscribed.  
The material has been annotated with dates from January to March 1960 but it is probable that it originally dates from 1958 (see D.528).  
6 folders.
- D.535, D.536 'The University of Manchester'. Contents of ring binder so inscribed. September 1959.  
'Jugoslav Summer Meeting Sept 1959 General Theory of Nuclear Reactions', 55pp manuscript lecture course so inscribed. September 1959.  
2 folders.

**Speeches, lectures and broadcasts**

- D.537-D.549            Lecture course entitled 'Properties of matter'.  
See also E.21-E.28.
- D.537-D.543            'Properties of matter Part I', lecture course so entitled. 1959.
- D.537                    3pp manuscript notes *re* lecture course, *ca* 1959 and 1966.  
See also B.7-B.11.
- D.538-D.543            114pp manuscript lecture course, October-December [1959].  
6 folders.
- D.544-D.549            'Properties of matter Part II', 117pp manuscript lecture course so inscribed.  
1960.  
6 folders.
- D.550-D.566            Two drafts of a nuclear physics course given by Flowers. *ca* 1961-1963.
- D.550-D.557            'Nuclear Physics Course (3H2)'. Contents of ring binder so inscribed, divided  
into seven for ease of reference.
- D.550                    1p typescript syllabus.
- D.551-D.557            158pp manuscript lecture course. Annotated with dates covering October  
1961-February 1962 but probably earlier.  
7 folders.
- D.558-D.566            177pp manuscript lecture course. *ca* 1962-1963.  
  
This lecture course is a later draft of D.550-D.557 and incorporates pages  
taken from the earlier draft.  
9 folders.



**Speeches, lectures and broadcasts**

D.577

Interview *re* university finance cuts, BBC Radio Four 'Today' programme. 1983.

Letter *re* broadcast, November 1983; 3pp typescript transcript, broadcast 9 November 1983.

**SECTION E**

**PUBLICATIONS**

**E.1-E.70**

E.1-E.56      DRAFTS

E.57-E.67      EDITORIAL CORRESPONDENCE

E.68-E.70      OFFPRINTS

### Publications

- | E.1-E.56 | DRAFTS   | 1947/1948-1982 |
|----------|--|----------------|
|          | Arranged in chronological order.   |                |
| E.1      | <p>'Theory of ionization chambers'. Contents of folder so inscribed, <i>ca</i> 1947/1948.</p> <p>9pp incomplete typescript draft entitled 'The Theory of Pulse Chambers'; 1p manuscript graph; 3pp incomplete manuscript notes.</p> <p>In a private communication of 10 April 1998 Lord Flowers indicated that he wrote an article on the theory of pulse chambers in the period 1947-1948 but that it was never published. The material above may relate to this.</p>  |                |
| E.2-E.6  | <p>'Unfinished Book. Group Theory and Nuclear Structure'. Contents of boxfile so inscribed. <i>ca</i> 1952-1954.</p> <p>In June 1952 the North-Holland Publishing Co., Amsterdam, wrote to Flowers inviting him to participate in the writing of a book on group theory as part of their series Monographs on Theoretical and Applied Physics. Flowers was to co-author the book with A.R. Edmonds.</p>   |                |
| E.2      | <p>'Book'. Contents of folder so inscribed, 1952-1954, n.d.</p> <p>Correspondence etc <i>re</i> negotiations with North-Holland Publishing Co., N.F. Mott and Clarendon Press; 1p typescript abstract entitled 'Group Theory and Nuclear Spectra', June-December 1952.</p> <p>Correspondence with A.R. Edmonds <i>re</i> book; 10pp typescript notes, and 4pp typescript scheme of book, October 1952-May 1954. 15pp typescript draft scheme for the book entitled 'Group Theory and Nuclear Spectra', n.d.</p> |                |
| E.3      | <p>'Chapter I. Group Theory and Nuclear Structure'. Contents of folder so inscribed, n.d.</p> <p>1p typescript entitled 'Notation'; 19pp manuscript draft entitled 'Chapter I. Non-Relativistic Quantum Mechanics'.</p>  |                |
| E.4      | <p>'Chapter II. The Concepts of Groups &amp; Rings'. Contents of folder so inscribed.</p> <p>23pp manuscript draft and later 27pp annotated typescript draft, n.d.</p>   |                |

### Publications

- E.5 'Chapter III. Representation Theory'. Contents of folder so inscribed.  
14pp manuscript draft and later 16pp typescript draft, n.d.
- E.6 'Chapter IV. the Group of the Hamiltonian'. Contents of folder so inscribed.  
7pp typescript draft entitled 'Chapter IV' and annotated by Flowers 'A R E's rough draft' with attached 4pp manuscript draft, in the hand of A.R. Edmonds, entitled 'Ch IV. continued. Diagonalisation of the Energy Matrix'. n.d.
- E.7-E.17 'Unfinished Book, The Structure of Light Nuclei'. Contents of boxfile so inscribed. The contents were further contained within a folder entitled 'The Structure of Light Nuclei' (retained at E.7). Latest bibliographical reference 1958.
- E.7 'The Structure of Light Nuclei', Atomic Energy Research Establishment (AERE), Harwell issue folder so inscribed enclosing E.8-E.17. The contents were subdivided by Flowers into a bundle consisting of nine manuscript draft chapters of the book (E.8-E.13) and 2 folders with further draft material (E.14-E.16 and E.17).
- E.8-E.13 Bundle consisting of manuscript drafts of chapters 1-9, with annotations, divided into six for ease of reference.
- E.8 'Chapter I. Introduction', 14pp; 'Chapter II. Nuclear Forces and the Many-Body Problem', 22pp.
- E.9 'Chapter III. The Simple Shell Model', 30pp+graph.
- E.10 'Chapter IV. Refinements of the Simple Shell Model', 40pp.
- E.11 'Chapters V. Angular Momentum and Tensor Operators', 20pp; 'Chapter VI. The Symmetries of Nuclear States', 21pp.
- E.12 'Chapter VII. Individual Particle Wave Functions', 21pp+table; 'Chapter VIII. Other Coupling Schemes', 12pp+table.

### Publications

- E.13 'Chapter IX. Fractional Parentage Coefficients', 18pp.
- E.14-E.17 Further draft material.
- E.14-E.16 Contents of folder. Typescript draft of chapters 1-9, divided into three for ease of reference. The typescript draft incorporates in the text changes made in annotated form to the manuscript draft bundle (see E.8-E.13).
- E.14 'Chapters I Introduction', 9pp; 'Chapter II Nuclear forces and the many body problem', 14pp.
- E.15 'Chapter III The simple shell model', 16pp; 'Chapter IV Refinements of the simple shell model', 26pp; 'Chapter V Angular momentum and tensor operators', 18pp; 'Chapter VI The symmetries of nuclear states', 16pp.
- E.16 'Chapters VII Individual particle wave functions', 18pp; 'Chapter VIII Other coupling schemes', 11pp complete draft, 7pp incomplete draft; 'Chapter IX Fractional parentage coefficients', 17pp.
- E.17 'Structure of light nuclei. Typed Chapters'. Contents of folder so inscribed.  
  
7pp incomplete typescript draft of Chapter 3 with manuscript graph and corrections; 8pp incomplete typescript draft of Chapter 6; 18pp typescript draft of Chapter 7 with manuscript graph.
- E.18 'The structure of the atomic nucleus', *The Times Science Review*, Spring 1960, pp 14, 17-18. The article was subsequently printed as 'The structure of the nucleus' in *Journal of Chemical Education*, **37**, (December 1960), pp 610-615.  
  
18pp typescript draft.  
  
See also D.30.
- E.19 *Computers in the service of medicine, I and II*, edited by G. McLachlan and R.A. Shegog, Oxford University Press, 1968.  
  
Flowers wrote an introduction.  
  
Correspondence etc *re* publication and critical response, December 1967-August 1968; 3pp typescript draft with annotation.

### Publications

- E.20 'Confidential. Prof. Sir Rudolph Peierls. Draft obituary notice. (1972!!)'. Contents of folder so inscribed. 1968-1972.
- Flowers wrote an obituary notice of Peierls at the invitation of the Oxford University Correspondent of *The Times*.
- Correspondence etc relating to the production of the obituary; typescript and manuscript bibliographies, three typescript drafts (4pp, 5pp and 4pp) with annotations and 2pp typescript notes *re* Peierl's war and post war atomic energy work.
- E.21-E.28 *Properties of Matter* by B.H. Flowers and E. Mendoza, John Wiley & Sons Ltd, 1970.
- The book was based on a lecture course on statistical properties of matter considered as a collection of interacting atoms and molecules first given at the University of Manchester in the 1959-1960 academic session.
- See also G.46.
- E.21-E.23 Correspondence *re* publication, subsequent new and foreign editions etc, 1968-1979.
- E.21 1968 March–1969 December.
- E.22 1970 January–1971 October.
- E.23 1972 July–1979 May.
- E.24-E.27 Folder of correspondence and proofs, divided into four for ease of reference. 1969-1970.
- E.24 Correspondence *re* proofs, November 1969-March 1970.
- E.25-E.28 Publishers proofs with annotations.
- E.25 'Chapter 1 The study of the properties of matter', 61pp.
- E.26 'Chapter 4 Energy, temperature and the Boltzmann distribution', 17pp; 'Chapter 5 The Maxwell speed distribution and the equipartition of energy', 20pp; 'Chapter 6 Transport properties of gasses', 20pp.

### Publications

- E.27 'Chapter 7 Liquids and imperfect gasses', 22pp; 'Chapter 8 Thermal properties of solids', 19pp; 'Chapter 9 Defects in solids: Liquids as disordered solids', 27pp; 'Index' 4pp.
- E.28 'Science on a tight budget', *Science*, **170**, (25 December 1970), p 1361.  
Flowers wrote a short editorial.  
Letter *re* publication including attached 1p proof with annotations.
- E.29 Authorised statement prepared for *The Times*, *New Scientist* etc.  
Two letters *re* statement made by Flowers as Chairman of the Science Research Council *re* parliamentary Green Paper, January 1972.
- E.30 *Tenth year anniversary publication*, Atlas Computer Laboratory, (1974).  
Flowers wrote a short article entitled 'Atlas plus and minus ten'.  
Correspondence *re* publication; 3pp typescript draft, October 1973-January 1974.
- E.31 'Past present and future', *Physics Bulletin*, **25**, (January 1974), p 8.  
Correspondence etc *re* publication; 1p proof with annotations and 3pp typescript draft, October-December 1973.  
See also D.99, D.105.
- E.32 'Funding research', *Physics Bulletin*, **25**, (July 1974), pp 293-298.  
Correspondence *re* publication including 6pp proof with annotations, 28 June 1974.
- E.33 '1874-1974 The Physical Society of London', *Physics Bulletin*, **25**, (October 1974), pp 435-437.  
3pp proof with annotations.  
See also D.99, D.105.

### Publications

- E.34 'Universities finance', *University of London Bulletin*, **21**, (December 1974), pp 2-3.  
  
Correspondence *re* publication; four typescript drafts 33pp, October-December 1974.
- E.35 'Rectors welcome to freshers', *FELIX*, Imperial College, London, newsletter, (29 September 1975).  
  
4pp typescript draft, annotated on first page 'Rector's article for *FELIX*-to be published on 29/9/75 sent to Felix on 15/9/75', 15 September 1975.  
  
See also D.131.
- E.36 'Nuclear power and the public interest a watchdog's view', *Bulletin of the Atomic Scientists*, (December 1976).  
  
Note with attached photocopied first page of article, 10 February 1977.  
  
See also D.150.
- E.37-E.39 'Nuclear power and public policy'.  
  
Originally a lecture given by Flowers to the British Nuclear Energy Society, 2 December 1976 it appeared in print in three different publications.  
  
See also D.164.
- E.37 'Nuclear power problems', *Morning Star*, *ca* February 1977.  
  
Correspondence *re* publication; 6pp typescript draft, January 1977.
- E.38 'Nuclear power and public policy', *J. Br. Nucl. Energy Soc.*, **16**, (April 1977), pp 113-121.  
  
Correspondence *re* publication; 8pp proof with corrections, February 1977; 29pp typescript of lecture annotations for publication.
- E.39 'Nuclear power and public policy', *Chemtech*, **7**, (August 1977), pp 484-494.  
  
Correspondence *re* publication; 6pp incomplete typescript draft with annotations, February-July 1977; 29pp typescript of lecture annotated for publication.

### Publications

- E.40 'Fast reactors and the fuel cycle', *Nuclear or not?: choices for our energy future: a Royal Institution forum*, edited by Gerald Foley and Ariane van Buren, Heinemann Educational (1978).
- Flowers's lecture at the Royal Institution Forum on 11/12 October 1977, was adapted for publication.
- Correspondence *re* publication including 15pp typescript of lecture annotated for publication, February 1978
- See also D.185.
- E.41 'The Nuclear Debate', *Bulletin of the Atomic Scientists*, (March 1978).
- Flowers's lecture at Temple University, Philadelphia, USA on 23 September 1977, was adapted for publication.
- Correspondence *re* publication; 38pp typescript of lecture annotated for publication. 1977 November–1978 March
- See also D.179.
- E.42 Foreword to proposed handbook.
- Flowers wrote a foreword to a proposed handbook 'Principia' to celebrate the centenary of the Royal College of Science Association. No evidence of publication.
- Letter *re* possible publication, 26 October 1981; 3pp typescript draft.
- E.43-E.44 'Energy and the environment - the public debate', *Energy policy: a common approach* edited by D. Ezra.
- Flowers's Gerald Walters Memorial Lecture at the University of Bath on 16 May 1978, was adapted for publication. No evidence of publication.
- See also D.202.
- E.43 Correspondence *re* publication, January 1980-June 1982.
- E.44 29pp typescript draft with annotations and 1p contents page of book.

### Publications

- E.45 'Ecology observed', *Ecology in the 80's* edited by J.N.R. Jeffers, Institute of Terrestrial Ecology, (1984).  
  
Correspondence *re* publication including 3 typescript drafts with annotations, October 1982-September 1984.
- E.46 'The painter and the swordsman: insulting tales for engineers'.  
  
Flowers keynote address at the Second World Conference on Continuing Engineering Education, Paris, France, 6 April 1983 entitled 'The painter and the swordsman: insulting tales for engineers', was adapted for publication in the *Journal of Engineering Education*. No evidence of publication.  
  
Letter *re* publication, 15 April 1985; 21pp typescript draft with annotations.  
  
See also D.334.
- E.47-E.56 *An introduction to numerical methods in C++*, Clarendon Press, 1995.  
  
'B.H. Flowers Draft C++ book', contents of ring binder so inscribed. Typescript draft with annotations, divided into ten for ease of reference.
- E.47 7pp figures.
- E.48 Title pages, 'Contents'; 7pp, 'Preface', 4pp; '1 Preliminaries', 17pp.
- E.49 '2 Expressions, statements and functions', 29pp.
- E.50 '3 Errors, theorems and speed', 12pp; '4 Roots of non-linear equations', 22pp.
- E.51 '5 Classes', 23pp; '6 Derived classes and streams', 22pp; '7 Integer arithmetic', 24pp with intercalated addition.
- E.52 '8 Tests or randomness', 16pp; '9 Vectors and matrices', 14p; '10 Direct solution of linear equations', 21pp.
- E.53 '11 Errors in matrix manipulation', 9pp; '12 Iterative solutions of systems of equations', 10pp; '13 Matrix eigenvalue problems', 27pp.

### Publications

E.54 '14 Interpolation and data fitting', 22pp; '15 Graphics', 23pp; '16 Differentiation and integration', 20pp with intercalated addition.

E.55 '17 Orthogonal polynomials', 24pp; '18 Differential equations', 27pp.

E.56 '19 More about differential equations', 22pp; '20 Recursive data types – lists', 29pp; '21 Elements of Fourier analysis', 9pp; 'Bibliography', 2pp; 'Appendix', 7pp.

**E.57-E.67 EDITORIAL CORRESPONDENCE 1973-1977**

Arranged alphabetically by publisher or journal title.

E.57 Cambridge University Press 1973

Invitation to comment on a book submitted for publication (declined), November 1973.

E.58 *Central* 1973

Correspondence *re* article on Flowers, September, October 1973; 11pp typescript draft with annotations.

E.59 *Financial Times* 1973-1974

Invitation to comment on a chapter of a proposed book entitled *The business of science* by D. Fishlock, December 1973, January 1974.

E.60 *Higher Education* 1976

Invitation to write reviews (declined), July, August 1976.

E.61 London Institute of World Affairs 1977

Invitation to write article for the 1978 yearbook on the subject of deficiencies in the international control of nuclear energy (declined), June 1977.

### Publications

E.62	<i>Nature</i>	1973-1974
	Invitations to write reviews (declined), 1973-1974.	
E.63	<i>New Scientist</i>	1974, 1977
	Invitation to write review (declined), December 1974.	
	Invitation to write article (declined), February 1977.	
E.64	Oxford University Press	1977
	Correspondence <i>re</i> invitation to write a book on energy resources (declined) and Flowers offer to assist in finding a suitable author, August 1977.	
E.65	<i>Scotsman</i>	1977
	Invitation to write article (declined), 28 April 1977.	
E.66	<i>Survival</i>	1977
	Invitation to write review (declined), November 1977.	
E.67	<i>Times Higher Education Supplement</i>	1977
	Invitations to write articles (declined), January, February and August 1977.	
<b>E.68-E.70</b>	<b>OFFPRINTS</b>	<b>1947-1992</b>
E.68	List of articles published by Flowers 1947-1969.	
E.69	Bundle of offprints, 1947-1974.	
E.70	Bundle of offprints, 1977-1995.	

Catalogue of the papers and correspondence of

**Brian Hilton Flowers FRS,  
Baron Flowers of Queen's Gate in the  
City of Westminster**

(b. 1924)

**VOLUME II**

Sections F - G

by Adrian Nardone and Alan Hayward  
NCUACS catalogue no. 76/5/98

**SECTION F**

**SOCIETIES AND ORGANISATIONS**

**F.1-F.686**

- |             |   |
|-------------|---|
| F.1         | ADVISORY COUNCIL ON SCIENCE AND TECHNOLOGY                      |
| F.2-F.28    | CATCHING UP WITH EUROPEAN HIGHER EDUCATION FUND                 |
| F.29        | CERN (EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH)               |
| F.30        | COMMISSION ON ENERGY AND THE ENVIRONMENT                        |
| F.31-F.67   | COMMITTEE OF ENQUIRY INTO THE ORGANISATION OF THE ACADEMIC YEAR |
| F.68-F.179  | COMPUTER BOARD FOR UNIVERSITIES AND RESEARCH COUNCILS           |
| F.180-F.184 | EUROPEAN SCIENCE FOUNDATION                                     |
| F.185-F.191 | HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY                  |
| F.192-F.271 | HOUSE OF LORDS  |
|             | HUNGARIAN ACCREDITATION COMMITTEE<br>See F.2-F.28               |
| F.272-F.294 | IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, LONDON              |
| F.295-F.297 | INSTITUTE OF PHYSICS  |
| F.298-F.310 | INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS                 |
| F.311-F.327 | LLOYD'S OF LONDON TRICENTENARY FOUNDATION                       |

**Societies and organisations**

F.328-F.346	LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE
F.347	MINISTRY OF DEFENCE
F.348-F.422	NATIONAL PHYSICAL LABORATORY, TEDDINGTON, MIDDLESEX
F.423-F.522	NUFFIELD FOUNDATION
F.523-F.556	PARLIAMENTARY AND SCIENTIFIC COMMITTEE
F.557-F.579	PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS
F.580-F.587	ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION
F.588-F.599	ROYAL SOCIETY
F.600-F.651	UNITED KINGDOM ATOMIC ENERGY AUTHORITY
F.652-F.661	UNIVERSITY GRANTS COMMITTEE
F.662-F.686	UNIVERSITY OF LONDON



### Societies and organisations

- F.2 1991 July-August.
- Includes correspondence *re* acceptance of the honorary presidency of the CEF Advisory Board; correspondence and itinerary *re* arrangements for Lord and Lady Flowers to visit Hungary, 29 August-5 September 1991; newspaper cutting (in Hungarian) mentioning Flowers, 31 August 1991.
- F.3 1991 September-October.
- Includes correspondence *re* arrangements for Flowers's attendance at meeting of CEF Curatorium, Budapest, Hungary, 21-22 October 1991; correspondence *re* applications for CEF funding.
- F.4 1991 November.
- F.5 1992 January.
- Includes correspondence *re* the handling of the CEF's affairs and the drafting of a 'Call for Applications'; correspondence *re* arrangements for Lord and Lady Flowers to visit Hungary, June 1992.
- The purpose of the visit to Hungary was to attend an Academia Europaea conference, a CEF Curatorium meeting (both held in Budapest) and to visit a number of higher education institutions.
- F.6 1992 February-March.
- Correspondence *re* arrangements to visit Hungary, June 1992 and *re* CEF business.
- F.7 1992 April-May.
- Includes correspondence *re* the World Bank's support for the CEF programme and for a proposed public health programme in Hungary; correspondence *re* arrangements to visit Hungary, June 1992.
- F.8 1992 June.

### Societies and organisations

- F.9 1992 July.  
2pp typescript letter from Flowers to J. Maddox *re* inaccuracies in a *Nature* article 'Hungarian science confronts its past', with copies of related material.
- F.10 1992 August-September.
- F.11 1992 October.  
Includes correspondence *re* CEF board meeting, 28 October 1992.  
Flowers was unable to attend the meeting but sent a 3pp fax message for distribution to members of the Advisory Board.
- F.12 1992 November-December.  
Includes invitation for Flowers to serve on a committee charged with the preparation of guidelines for the selection and evaluation of CEF projects (accepted); correspondence *re* the CEF's assessment procedures.
- F.13 1993 January.  
Includes invitation for Flowers to become a member of the Advisory Board of the Hungarian Accreditation Committee (accepted); correspondence *re* arrangements to visit Hungary for the CEF Curatorium meeting, 27 January 1993 (see also F.20, F.21) and *re* the CEF's assessment procedures.
- F.14 1993 February-March.  
Includes correspondence *re* meeting of the Hungarian Accreditation Committee and Advisory Board, 1-2 March 1993; 4pp typescript version of a paper, 'PhD study in Britain', given by Flowers at the meeting.
- F.15 1993 March.  
Correspondence between Flowers and J.A. Birch, British Ambassador to Hungary *re* the possible conferring of an honour.

### Societies and organisations

- F.16 1993 April-August.  
Includes correspondence *re* the establishment of the CEF in Hungarian law; invitation for Flowers to accept membership of the CEF's Board of Trustees (accepted).
- F.17 1993 December-1994 March.  
Includes correspondence etc *re* first Plenary Meeting of HAC's Advisory Board, 28 February 1994 (Flowers attended); invitation for Flowers to accept membership of the Committee's Advisory Board (accepted).
- F.18 1994 June-September.  
Includes papers *re* meeting of CEF Board, 2 July 1994 (Flowers was unable to attend); letter of resignation by Flowers from CEF Board, 7 August 1994.
- F.19 1994 December-1995 January.  
Includes letter of resignation by Flowers from HAC Advisory Board, 11 December 1994.
- F.20-F.22 Meetings 1993-1994**
- F.20, F.21 Papers *re* meeting of the CEF Curatorium, 27 January 1993 (some annotations).  
2 folders.
- F.22 Typescript extract minutes of the CEF board session, 26 February 1994.
- F.23-F.28 Background material 1991-1992, n.d.**
- F.23-F.28 Background material on higher education in Hungary etc.  
6 folders

### Societies and organisations

**F.29**                      **CERN (EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH)**                      **1960-1963**

F.29                      Three CERN press releases, 1960; brief correspondence *re* circulation of the Report of the Amaldi Working Party, 1963.

**F.30**                      **COMMISSION ON ENERGY AND THE ENVIRONMENT**                      **1981**

The Commission on Energy and the Environment was appointed in March 1978 by the Secretaries of State for Energy, the Environment, Scotland and Wales. Flowers served as Chairman of the Commission, 1978-1981.

In its 1981 report, *Coal and the Environment*, the Commission stated:

'Our major effort has been concentrated on a study of the longer term environmental implications of coal production, supply and use in the United Kingdom looking to the period around and beyond the end of the century, including likely new technologies and conversion to other fuels and raw materials'.

F.30                      *Coal and the Environment*, HMSO, 1981.

**F.31-F.67**                      **COMMITTEE OF ENQUIRY INTO THE ORGANISATION OF THE ACADEMIC YEAR**                      **1991-1994**

F.31-F.47                      Correspondence

F.48-F.50                      Reports

F.51-F.67                      Background material

The Committee of Enquiry into the Organisation of the Academic Year was established in September 1992. The review of the academic year was jointly commissioned by the Committee of Vice-Chancellors and Principals (CVCP), the Standing Conference of Principals (SCOP), the Higher Education Funding Councils for England (HEFCE) and Wales (HEFCW) and the Department of Education for Northern Ireland.

Flowers served as Chairman of the Committee of Enquiry, 1992-1993.

### Societies and organisations

F.31-F.47	Correspondence	1992-1994
	The correspondence was kept in a folder inscribed 'Funding Council Correspondence' and has been divided into seventeen folders for ease of reference.	
F.31	1992 July.	
	Includes correspondence (annotated) <i>re</i> the organisation of the review of the academic year, with draft terms of reference.	
F.32	1992 11 August-9 September.	
	Includes correspondence <i>re</i> experiences of methods of structuring the academic year; draft and final press releases <i>re</i> the enquiry into the organisation of the academic year.	
F.33	1992 10-23 September.	
F.34	1992 23-25 September.	
	Includes correspondence resulting from the press release announcing the enquiry into the academic year; 5pp typescript draft paper (annotated by Flowers) setting out issues to be addressed by the Committee of Enquiry.	
F.35	1992 25-29 September.	
F.36	1992 October.	
F.37	1992 November.	
F.38	1992 December.	
	Includes correspondence <i>re</i> the future organisation of the academic year at the University of London.	

### Societies and organisations

- F.39 1993 January-March.  
Includes typescript minutes of meeting of the Committee of Enquiry, 11 December 1992, with 2pp typescript paper 'Models for the re-organisation of the academic year' attached.
- F.40 1993 7-24 April.  
Includes correspondence *re* Flowers's presentation to English Vice-Chancellors and Principals at the HEFCE Annual Conference, Birmingham, 6 April 1993 and the Committee of Enquiry's interim report.
- F.41 1993 22-30 April.  
Includes correspondence and copies of newspaper cuttings *re* Flowers's presentation at the HEFCE Annual Conference, Birmingham, 6 April 1993.
- F.42 1993 May-June.
- F.43 1993 August.  
Includes correspondence *re* models for the structure of the academic year.
- F.44 1993 September-October.  
Includes correspondence *re* the Committee of Enquiry's recommendations for the future of accelerated degrees; 3pp typescript draft brief for Baroness Blatch, Minister of State, Department of Education, on the Committee's work for a meeting on 18 October 1993 (see also F.49).
- F.45 1993 November.  
Correspondence, copies of newspaper articles etc *re* the Committee of Enquiry's final report.
- F.46 1993 December.
- F.47 1994 January-April.



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The Computer Board was established in 1966 as a result of the recommendations by the Working Group on Computers for Research (of which Flowers was Chairman), set up by the University Grants Committee and the Council for Scientific Policy.

See F.172 for a copy of the Report of the Working Group on Computers and F.652-F.661 for material relating to the University Grant Committee's Interim Computer Panel, which operated between the publication of the report and the establishment of the Computer Board.

**F.68-F.117**                      **Main correspondence**                      **1966-1967**

The main correspondence sequence includes correspondence relating to applications to the Board together with copies of applications by universities, proposals by computer companies, papers for meetings and reports of meetings

F.68                      1966 March-June.

Includes correspondence *re* the recruitment of Americans to fill vacancies in British computing laboratories; correspondence *re* University of Edinburgh building proposals; invitation for Flowers to take on chairmanship of the Computer Board (accepted).

F.69                      1966 4-19 July.

Includes correspondence *re* membership of the Computer Board.

F.70, F.71                      1966 20-21 July.

Papers *re* Flowers's visit to University of Edinburgh, 25 July 1966.

2 folders.

F.72                      1966 19 July-8 August.

Includes correspondence *re* membership of the Computer Board; copies of the Computer Board's constitution and the proposed financial arrangements covering its operations; correspondence *re* computing facilities at the University of London.

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- F.73 1966 2-17 August.  
Includes 2pp typescript report by A.V. Cohen of meeting with Ministry of Technology employees on 2 August 1966 entitled 'Implementation of the Flowers Report. Likely availability of largest computers'; brief correspondence *re* the University of London's computing requirements; minutes of Edinburgh Regional Computing Centre Policy Committee meeting, 25 July 1966 (Flowers attended as an observer).
- F.74 1966 6-19 August.  
Typescript proposal by the Universities of Newcastle and Durham for a joint computer system, with related correspondence.
- F.75 1966 17-31 August.  
Includes 'A regional configuration', 15pp typescript paper by J.G. Laski, with related correspondence.
- F.76 1966 22 August-5 September.  
Includes correspondence *re* plans for computer facilities in Manchester.
- F.77 1966 31 August-1 September.  
Typescript proposal by the College of Aeronautics, Cranfield for a new digital computer, with related correspondence.
- F.78 1966 5-14 September.  
Correspondence arising from the first meeting of the Computer Board, 2 September 1966, including correspondence *re* the University of London computer situation.
- F.79 1966 15-26 September.  
Includes correspondence *re* arrangements for a meeting of representatives of the Computer Board and the University of London, 6 October 1966; correspondence *re* the proposal by the College of Aeronautics, Cranfield for a new digital computer; letter to Flowers *re* J.G. Laski's paper 'A regional configuration', with 2pp typescript notes attached.

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- F.80                      1966 21-30 September.  
  
Typescript application by Queen Mary College, London for a general purpose College computer, with related correspondence
- F.81                      1966 23 September.  
  
'Computer education'. Typescript copy of an interdepartmental working group report so entitled, sent to Flowers with covering letter.
- F.82                      1966 23-30 September.
- F.83                      30 September, n.d.  
  
Papers *re* meeting between representatives of the Computer Board and the University of London, 6 October 1966.
- F.84                      1966 3-11 October.  
  
Includes invitation (declined) for Flowers to become a founder member of a proposed Institution of Computer Sciences and Cybernetics; 2pp typescript proposal by the Medical Research Council to order a computer for work on molecular structure at Oxford, with covering letter.
- F.85                      1966 11-17 October.  
  
Papers *re* the meeting between representatives of the Computer Board and the University of London, 6 October 1966.
- F.86                      1966 14-17 October.  
  
Correspondence *re* the application to the Computer Board by Queen Mary College, London.
- F.87                      1966 18 October-2 November.  
  
Includes correspondence *re* Computer Board's decision on the University of London's computer requirements.

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- F.88 1966 1-8 November.  
Includes papers *re* a Parliamentary Question put down by P. Horden MP for oral answer on 10 November 1966.
- F.89 1966 15-24 November.  
Includes brief correspondence *re* issue of charging universities for computer time; typescript application by University of Bradford for computer equipment.
- F.90 1966 24 November-2 December.  
Includes correspondence *re* the computing needs of universities in the south-west and *re* the cost of operating regional computer centres.
- F.91 1966 5-12 December, n.d.  
Papers *re* a Parliamentary Question put down by J. Ellis MP for oral answer on 10 November 1966.
- F.92 1966 6-23 December.  
Includes correspondence *re* Edinburgh Regional Computer Centre and *re* computer systems at the Universities of Bradford, Essex and Lancaster.
- F.93 1966 22-30 December.
- F.94 1967 4-27 January.
- F.95 1967 16-27 January.  
Includes correspondence *re* financial resources available to improve computer facilities at the University of London and correspondence *re* the Edinburgh Regional Computer Centre.
- F.96 1967 23-24 January.  
'Computing requirements of the hospital and medical school'. Report, by D.E. Clarke, University of Manchester, with related letter.

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- F.97                      1967 25 January-8 February.  
  
Includes 2pp typescript proposal to upgrade computer at University College, London.
- F.98                      1967 30 January.  
  
'1908 Technical Report for University of London'. 36pp typescript with card cover by International Computers and Tabulators Ltd (ICT).
- F.99                      1967 3-13 February.  
  
Includes correspondence *re* funds for a large machine in London.
- F.100                     1967 14-21 February, n.d.  
  
Includes papers *re* first meeting of the Large Machine Working Party, 28 February 1967.
- F.101                     1967 20 February.  
  
'Computer Policy. Note of third meeting held in Joint Parliamentary Secretary (Dr. Bray)'s office on 16 February 1967'. 4pp typescript so entitled.  
  
Flowers attended part of this meeting.
- F.102                     1967 3-9 March.  
  
Includes correspondence *re* arrangements for meeting of representatives of the University of London and the Computer Board, 10 March 1967; typescript draft minutes of first meeting of the Large Machine Working Party with related correspondence.
- F.103                     1967 17-31 March.  
  
Includes correspondence *re* the ICT 1908 computer system.
- F.104                     1967 *ca* March.  
  
Papers *re* second meeting of the Large Machine Working Party, 31 March 1967.

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- F.105                      1967 31 March-10 April, n.d.
- Includes correspondence *re* the London Regional Centre; 'The design of the 1908 Computer', 4pp typescript by D.W. Davies with related correspondence and diagrams; 2pp typescript copy of application for computer equipment by the University of Sussex.
- F.106                      1967 11-14 April, n.d.
- Includes typescript draft minutes of second meeting of the Large Machine Working Party; manuscript notes by L.F. Rutterford *re* the 1908 computer system etc; papers *re* application by University of London for a CDC 6600 computer.
- F.107                      1967 17-24 April.
- Includes correspondence *re* proposal to install a CDC 6600 computer at the University of London and the related building problem.
- F.108                      1967 25 April-16 May.
- Includes correspondence *re* computing at the University of Birmingham.
- F.109                      1967 2-3 May.
- Papers *re* meeting of representatives of the Computer Board and English Electric-Leo-Marconi Computers Ltd (EELM), 8 May 1967.
- Includes copy of EELM 'Extracts', summarising the Company's proposals for computing facilities for the South West Region.
- F.110                      1967 2-13 May.
- Includes papers *re* the costs of installing a CDC 6600 at the University of London.
- F.111                      1967 15 May-5 June.
- Includes correspondence *re* the CDC 6600 proposal by the University of London; correspondence *re* the design of the ICT 1908 computer system.

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- F.112                      1967 *ca* June.  
Papers sent by D.W. Davies *re* a national data communication network.
- F.113                      1967 2-8 June.  
Includes correspondence *re* provision of a CDC 6600 for the University of London.
- F.114                      1967 16 June.  
Papers *re* a possible multi-access computer for Imperial College, London.
- F.115                      1967 20-29 June.  
Includes correspondence *re* proposal for University of London to rent a CDC 6600 and *re* tentative proposals for Imperial College, London to acquire a new computer.
- F.116                      1967 4-6 July.
- F.117                      1967 7-26 July.  
Includes correspondence *re* proposal for University of London to rent a CDC 6600.
- F.118-F.120              General correspondence    1966-1967**  
  
Material found in two files marked 'General'.
- F.118                      'General'. Contents of file so inscribed, November 1966.  
  
Includes brief correspondence *re* applications to the Computer Board; letter to the Computer Board from A. Kirk *re* deficiencies in KDF9 software.
- F.119, F.120              'General'. Contents of file so inscribed, divided into two folders for ease of reference, January-May 1967.

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- F.119 1967 January-February.  
Includes invitation for Flowers to address a Manchester Business School course, July 1967 (declined).
- F.120 1967 March, May.  
Includes correspondence *re* Elliott-Automation Computers Ltd and *re* large computers.
- F.121-F.140                      Subject files                      1966-1967**
- Material kept in these subject files includes correspondence, papers for Computer Board meetings, reports, manuscript notes etc. Inscriptions on the files have been reproduced in the entries below.
- F.135-F.140 were found in numbered files. These numbers relate to the agenda items for the third meeting of the Computer Board, 18 November 1966.
- F.121-F.123 'Computer Board - Edinburgh University', September-October 1966, February 1967.  
Correspondence and papers *re* Edinburgh Regional Computer Centre.  
3 folders.
- F.124 'Computer Board - Manchester University', September 1966.  
Papers *re* proposed Manchester Regional Computer Centre.
- F.125-F.128 'Computer Board - Software. KDF9', September-November 1966, May 1967.  
Papers *re* KDF9 Software Project etc.  
4 folders.
- F.129 'Senior Principal Scientific Officer Interviews. Friday 21st Oct. 1966'.  
Papers (annotated) *re* interviews on 29 September and 21 October 1966.

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- F.130 'Computer Board - Data Transmission', October 1966.  
Paper *re* the General Post Office's transmission facilities with related correspondence.
- F.131 'International Comp. Centre', October-November 1966.  
Correspondence *re* arrangements for S.R. Thakore of the Physical Research Laboratory, Ahmedabad, India to visit computer facilities in England.
- F.132 'Computer Board - Newcastle and Durham', October 1966, n.d.  
Paper for meeting of Computer Board, 14 October 1966, *re* proposal to buy a new computer for the universities of Newcastle and Durham etc.
- F.133 'Computer Board - NERC' (Natural Environment Research Council), October 1966.  
Paper (annotated) for meeting of Computer Board, 14 October 1966, *re* NERC proposal to purchase computers and data systems.
- F.134 'Computer Board - Bristol', October 1966.  
Paper (annotated) for meeting of Computer Board, 14 October 1966 *re* University of Bristol's computer requirements etc.
- F.135 'Computer Board -13 - Bristol, Bath and Exeter Universities', October 1966.  
Submission (annotated) for the provision of a new computer at Bath.
- F.136 'Computer Board - 15 - Cardiff University Financial Submission', October-November 1966.  
Papers *re* application for a supplementary grant for University College, Cardiff.
- F.137 'Computer Board - 17 - Oxford (Phys.Chem.Lab) Computer Proposal', October 1966.  
Application for a small computer for the Physical Chemistry Laboratory, University of Oxford, with covering letter.



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- F.144 Meeting of representatives of the Computer Board and representatives of the University of Manchester, University of Manchester Institute of Science and Technology and other university institutions in the Manchester area, University of Manchester, 2 December 1966.  
Manuscript agenda (in Flowers's hand); typescript minutes of meeting.
- F.145 Meeting between J.K. Steward (a member of the Computer Board) and IBM representatives, USA, 6 December 1966.  
Typescript report, 5 January 1967.
- F.146 Meeting on the KDF9 Software Project between representatives of the Computer Board and English Electric-Leo-Marconi Computers Ltd (EELM), London, 8 December 1966.  
Typescript notes and proposed agenda for the meeting by K.W. Morton, 1 December; formal agenda, 5 December.
- F.147-F.150 Fourth meeting of the Computer Board, London, 13 January 1967.  
Agenda and papers for meeting.  
4 folders.
- F.151 Meeting between Computer Board members and representatives of the University of London, 2 February 1967.
- F.152, F.153 Fifth meeting of the Computer Board, London, 10 February 1967.  
Agenda and papers for meeting.  
2 folders.
- F.154 Meeting between the Computer Board and representatives from International Computers and Tabulators Ltd (ICT), London, 1 March 1967.  
Agenda and typescript notes for meeting.

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- F.155 Meeting between the Computer Board and representatives from English Electric-Leo Marconi Computers Ltd (EELM), London, 1 March 1967.  
Agenda and typescript notes for meeting.
- F.156 Meeting between the Computer Board and representatives from Elliott-Automation Ltd, London, 2 March 1967.  
Agenda and typescript notes etc for meeting.
- F.157 Meeting between the Computer Board and representatives from International Business Machines Ltd (IBM), London, 2 March 1967.  
Agendas and typescript notes for meeting.
- F.158 Sixth meeting of the Computer Board, London, 10 March 1967.  
Agenda and papers for meeting.
- F.159, F.160 Seventh meeting of the Computer Board, London, 14 April 1967.  
Agenda and papers for meeting.  
2 folders.
- F.161-F.163 Eighth meeting of the Computer Board, London, 12 May 1967.  
Papers for meeting (agenda missing).  
3 folders.
- F.164 Ninth meeting of the Computer Board, Schuster Laboratory, University of Manchester, 16 June 1967.  
Agenda and papers for meeting, including submission by the University of Aston, Birmingham.
- F.165 Meeting between the Computer Board and representatives from the Univac Division Sperry Rand Ltd, London, 20 June 1967.  
Agenda and typescript notes for the meeting etc.

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- F.166-F.169 Tenth meeting of the Computer Board, London, 11 July 1967.  
Agenda and papers for meeting.  
4 folders.
- F.170 Meeting between representatives of the Computer Board and of the universities and colleges of the South West, [12 July 1967].  
Typescript notes for the meeting.
- F.171 Typescript financial forecast (found loose amongst the papers), ca 1967.
- F.172-F.178 'Booklets and brochures' 1966-1967**
- The following material was found together in a folder inscribed 'Booklets and Brochures'. It consists of published background material and proposals drawn up by computer manufacturers.
- F.172, F.173 Background material, 1966-1967.
- F.172 *A report of a Joint Working Group on Computers for Research*, HMSO, 1966.  
Flowers was Chairman of the Working Group (also referred to as the Flowers Committee) which produced this report.
- F.173 Other background material (front pages only have been retained for most of these publications), 1966-1967.
- F.174-F.178 Proposals by computer manufacturers, 1966-1967.
- F.174 Elliott Automation Computers Ltd to the Department of Physical Chemistry, University of Oxford, September 1966.
- F.175 International Computers and Tabulators Ltd (ICT) to the Bath University of Technology, ca 1966.

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F.176-F.178 English Electric-Leo Marconi Computers Ltd (EELM) to the South West Universities, comprising the University of Bath, the University of Bristol, the University of Exeter, the University College of South Wales and Monmouthshire, Cardiff and the Welsh College of Advanced Technology, Cardiff, February 1967.

3 folders.

**F.179**                      **Circulation list**

F.179                      Circulation list for Computer Board papers, n.d.

**F.180-F.184**                      **EUROPEAN SCIENCE FOUNDATION**                      **1973-1978**

In September 1973 it was agreed in principle by representatives of academies and research councils of sixteen European countries to set up the European Science Foundation (ESF). Flowers played a leading role in the establishment of the ESF in November 1974 and served as its President from then until 1980.

The Foundation's inaugural meeting was held in Strasbourg, France, in November 1974. The aims of the Foundation included advancing co-operation in fundamental research, promoting exchanges of research workers, contributing to the free circulation of ideas and information and harmonising the activities of member bodies.

F.180-F.184                      'ESF/2 Press Cuttings'. Contents of folder so inscribed, divided into five folders for ease of reference, 1973-1978.

The material consists of press cuttings, press releases, journal articles etc. (including some in French and German) *re* the ESF and related matters.

F.180                      1973-1974.

Includes cuttings etc *re* the establishment of the ESF.

F.181                      1975 January-June.

F.182                      1975 October-November.

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F.183 1976-1977.

F.184 1978.

**F.185-F.191 HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY 1991-1993**

Flowers served on the President's Advisory Board of the Hong Kong University of Science and Technology (HKUST), 1991-1993.

F.185 1991 January-February.

Includes invitation to serve on the President's Advisory Board (accepted).

F.186 1991 March.

Includes correspondence *re* other possible appointments to the Advisory Board.

F.187 1991 July-October.

Correspondence *re* arrangements for the visit of Flowers to Hong Kong for the inaugural meeting of the President's Advisory Board and the University's opening ceremony, 8-13 October 1991.

F.188 1991 December-1992 January.

Includes draft outline report of the inaugural meeting of the President's Advisory Board, 8-9 October 1991.

F.189 1992 March.

Includes brief correspondence *re* HKUST matters; executive summaries for two papers on HKUST administration (annotated with Flowers's comments).



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- F.196 1979 December.
- F.197 1980 January-February.
- F.198 1980 May.  
11pp typescript speech by Flowers (annotated), House of Lords, 1 May 1980, contributing to the debate on the Report of the European Communities Committee on energy objectives for 1990 and convergence of the policies of Member States, with related correspondence.
- F.199 1980 June.  
Papers *re* Lord Flowers's question in the House of Lords about academic salaries, 25 June 1980.
- F.200 1980 July.
- F.201 1980 November-December.
- F.202 1981 January.
- F.203 1981 March-May.
- F.204 1981 June.
- F.205 1981 October-December.  
Includes correspondence etc *re* the costs of University education.
- F.206 1982 January-February.
- F.207 1982 March.

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- F.208 1982 April-May.  
Includes correspondence *re* the future of the Princes Risborough Laboratory of the Building Research Establishment; correspondence *re* the House of Lords debate on *Coal and the Environment*, the report by the Commission on Energy and the Environment (of which Flowers was Chairman).
- F.209 1982 June-July.
- F.210 1982 August-September.
- F.211 1982 October.
- F.212 1982 October-November.
- F.213 1982 November.  
Includes correspondence *re* Flowers's re-appointment as a Vice-President of the Institution of Environmental Health Officers.
- F.214 1982 November-1983 April.  
Correspondence and papers *re* the Abortion Act 1967 (Amendment) Bill.
- F.215 1982 December-1983 February.
- F.216-F.271      Select Committee for Science and Technology      1990-1996**  
Flowers served as Chairman of the Select Committee for Science and Technology, 1989-1993.
- F.216-F.265      Correspondence
- F.266-F.271      Background material

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F.216-F.265	Correspondence	1990-1996
F.216	1990 June, August.	
F.217	1990 5 September-4 October. Includes brief correspondence <i>re</i> a proposed national bioethics body.	
F.218	1990 27 September, 6 October. Correspondence <i>re</i> the corporate plan of the Natural History Museum, London.	
F.219	1990 1-31 October. Includes correspondence <i>re</i> the Natural History Museum.	
F.220	1990 November-December, n.d. Includes correspondence <i>re</i> the Natural History Museum and systematic biology.	
F.221	1991 2-8 January.	
F.222	1991 24 January-12 February. Includes correspondence <i>re</i> the possible closure of the Nuclear Structure Facility at Daresbury Laboratory, Daresbury, Warrington, Cheshire.	
F.223	1991 13 February-9 March. Includes correspondence <i>re</i> a paper by B. Denness on global climate change.	
F.224	1991 3-21 March. Includes letter by Flowers to the Editor of <i>The Times</i> <i>re</i> an article on the UK manufacturing industry, with correspondence resulting from the publication of the letter on 13 March.	

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- F.225 1991 8-21 March.
- F.226 1991 20-28 March.  
Includes copies of newspaper cuttings *re* the report by the House of Lords Select Committee on Science and Technology, *Science Budget 1991-1992*.
- F.227 1991 27 March-19 April.  
Papers *re* an exchange between Sir Ian Lloyd MP and Peter Lilley MP, Secretary of State for Trade and Industry, on UK Government funded civil research and development.
- F.228 1991 2-15 April.  
Includes correspondence *re* the report by the House of Lords Select Committee on Science and Technology, *Science Budget 1991-1992*.
- F.229 1991 12 April-11 May.  
Includes correspondence *re* the privatisation of the British Technology Group.
- F.230 1991 8 May.  
Typescript notes *re* membership of the Select Committee on Science and Technology.
- F.231 1991 13 May-7 June.  
Includes correspondence *re* the closure of the Nuclear Structure Facility at Daresbury Laboratory, Daresbury, Warrington, Cheshire.
- F.232 1991 10 June-24 July.  
Includes correspondence *re* topics to be considered by the Select Committee on Science and Technology; written answer by Baroness Blatch to a parliamentary question by Flowers *re* University Funding Council funding.

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- F.233 1991 24 July-25 August.  
Correspondence *re* the closure of the Nuclear Structure Facility at Daresbury Laboratory.
- F.234 1991 14 October-22 November.
- F.235 1991 6-30 November.
- F.236 1991 27 November-1992 7 January.  
Includes correspondence *re* remarks by Kenneth Clarke MP, Secretary of State for Education and Science, about the Select Committee on Science and Technology's report in 1987 on *UK Space Policy*.
- F.237 1992 7-27 January.  
Includes correspondence *re* a meeting with Kenneth Clarke MP concerning remarks by him about science, arranged by Sir Ian Lloyd MP for 12 February 1992 (Flowers unable to attend).
- F.238 1992 27 January-15 February.
- F.239 1992 12-25 February.  
Includes correspondence *re* the report by the House of Lords Select Committee on Committee Work of the House; written answer by Baroness Denton of Wakefield to a parliamentary question by Flowers *re* the grant-in-aid to the Science and Engineering Research Council for 1992-1993.
- F.240 1992 21-29 February.
- F.241 1992 4 March.  
Recommendation.
- F.242 1992 4-18 March.

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- F.243 1992 26, 30 March.  
Correspondence *re* the use of the European Science Foundation by the Commission of the European Communities as an agent for supporting EEC programmes of basic research.
- F.244 1992 April.
- F.245 1992 May.
- F.246 1992 June.
- F.247 1992 July-September.  
Includes correspondence *re* the House of Lords debate, 9 July 1992, on systematic biology research in the UK; correspondence *re* the Select Committee on Science and Technology report *Innovation in Manufacturing Industry*.
- F.248 1992 October-November.  
Includes brief correspondence between Flowers and J. Major MP, Prime Minister *re* public expenditure on the science base.
- F.249 1992 December-1993 January.
- F.250 1993 3 February-12 March.
- F.251 1993 10 March-15 April.  
Includes correspondence *re* the future of the Science and Technology Section of the British Embassy, Washington DC, USA.
- F.252 1993 21 April-1 May.

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- F.253 1993 14 May-9 June.  
Correspondence between Flowers and William Waldegrave MP, Minister of Public Service and Science *re* research and development in forensic science and *re* the White Paper 'Realising our potential. A strategy for Science, Engineering and Technology'.
- F.254 1993 4 June-5 July.
- F.255 1993 2, 6 July.
- F.256 1993 13-22 July.
- F.257 1993 26 July.  
Letter *re* future Select Committee matters.
- F.258 1993 September-October.
- F.259 1993 November-December.  
Includes 6pp typescript background notes on medical research by S. Rodger for circulation to the Select Committee, with related correspondence.
- F.260 1994 January-February.  
Includes correspondence *re* the Select Committee report *Priorities for the Science Base* and *re* Ph.D. training.
- F.261 1994 3, 17 February.  
Recommendations.
- F.262 1994 March-April.

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- F.263 1994 June-December.  
Includes correspondence *re* report by the NHS Task Force on Supporting Research and Development in the NHS.
- F.264 1995.
- F.265 1996.  
Includes correspondence *re* the need for a major study of the 'Precautionary Principle' and *re* the Select Committee report *Information Society: Agenda for Action in the UK*.
- F.266-F.271 Background material. 1991, n.d.  
6 folders.
- F.272-F.294 IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY, 1990-1997  
LONDON**  
Flowers was Rector of Imperial College of Science and Technology, 1973-1985.  
Correspondence relating largely to various Imperial College matters and former colleagues of Flowers.
- F.272 1990 September-October.
- F.273 1991 March-April.
- F.274 1991 September-1992 April.  
Includes correspondence *re* the sponsorship appeal for the 1992 Schrödinger Lecture at Imperial College (Flowers approached companies on the College's behalf); invitation (accepted) for Flowers to give the 1993 Schrödinger Lecture on science policy.

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- F.275                    1992 February-March.  
Correspondence *re* the Rectorship of Imperial College.
- F.276                    1992 May-July.  
Correspondence *re* the Furse House Appeal etc.  
Flowers was a member of the Appeal Committee.
- F.277                    1992 August-September.  
Includes brief correspondence *re* J. Sutton.
- F.278                    1992 2-15 October.  
Includes letter by Flowers, withdrawing from the 1993 Schrödinger Lecture.
- F.279                    1992 23, 24 October.  
Correspondence *re* the relationship of Imperial College to the University of London etc.
- F.280                    1992 26 October-9 November.
- F.281                    1992 27 November-22 December.
- F.282                    1993 February-May.
- F.283                    1993 June-November.
- F.284                    1994 February-June.

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- F.285                    1994 March-July.  
  
Includes correspondence *re* Imperial College Centre for Environmental Technology.
- F.286                    1994 August-November.
- F.287                    1994 September.
- F.288                    1995 February-July.
- F.289                    1995 June.
- F.290                    1995 December-1996 February.  
  
Correspondence *re* the Royal Postgraduate Medical School Council etc.
- F.291                    1996 March.  
  
Includes invitation (declined) for Flowers to chair an advisory committee set up in connection with a proposed Salters' A Level Physics Course.
- F.292                    1996 September-December.  
  
Includes invitation for Flowers to become a Member of the Graduate School of the Environment (accepted); 2pp typescript notes by Flowers *re* Imperial College's draft Charter.
- F.293                    1997 January-March.
- F.294                    1997 June-October.

**Societies and organisations**

**F.295-F.297                      INSTITUTE OF PHYSICS                      1984-1990**

Flowers was a Fellow of the Institute of Physics and served as President, 1972-1974.

F.295                      1984.  
  
Election etc.

F.296                      1985-1986.  
  
Includes correspondence *re* the Institute's awards.

F.297                      1988-1990.  
  
Award etc.

**F.298-F.310                      INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS                      1957-1966  
(IUPAP)**

Flowers was a member of an *ad hoc* committee, 1957-1960, investigating the possible formation of a low energy nuclear physics commission within IUPAP. Following its establishment in 1960 he served as a member of IUPAP's Low Energy Nuclear Physics Commission until 1966.

F.298                      1957 December.  
  
Correspondence *re* the formation of a commission on low energy nuclear physics, including possible membership and activities.

F.299                      1958 May, June.  
  
Correspondence *re* the formation of a commission on low energy nuclear physics etc.

### Societies and organisations

- F.300                    1958 September-December.
- Correspondence *re* arrangements for a committee meeting in Uppsala, Sweden, 24-25 November 1958 (cancelled) and *re* future international nuclear physics conferences.
- F.301                    1959 September.
- 2pp typescript report of the committee for low energy nuclear physics, with related correspondence.
- F.302, F.303            1960.
- Includes papers *re* the 10th General Assembly of IUPAP, Ottawa, Canada, 7-9 September 1960.
- Flowers was a member of the UK delegation.
- 2 folders.
- F.304                    1961 June-September.
- Correspondence *re* the availability of funds for British physicists to attend international meetings on low energy nuclear physics.
- F.305                    1962 September-December.
- F.306                    1963 October-1994 January.
- F.307                    1964 May.
- International Union of Pure and Applied Physics: General Information and Report of the General assembly, Warsaw, 1963.*
- F.308                    1964, July, December.
- Includes 2pp typescript minutes of meeting of the Low Energy Nuclear Physics Commission, Paris, 6 July 1964.

**Societies and organisations**

- F.309                      1965 April, October-November.  
  
Includes correspondence *re* Flowers's resignation as a member of the Low Energy Nuclear Physics Commission.
- F.310                      1966 February, August.  
  
Includes 3pp typescript report of the Low Energy Nuclear Physics Commission for the period 1964-1966.
- F.311-F.327              LLOYD'S OF LONDON TRICENTENARY FOUNDATION              1987-1993**
- Flowers was a founder Trustee of the Lloyd's of London Tercentenary Foundation, 1987-1991, a charitable trust with the objective of funding research in the fields of medicine, science and business.
- The material consists of correspondence and papers relating to Flowers's service as a Trustee of the Foundation.
- F.311                      1987 October-November.  
  
Papers (some annotated) *re* inaugural meeting of the Trustees of the Foundation, 9 November 1987.
- F.312                      1988 January.  
  
Papers *re* meeting of the Trustees, 11 January 1988.
- F.313                      1988 February.  
  
Papers *re* meeting of the Trustees, 18 February 1988.
- F.314                      1988 April.  
  
Correspondence *re* arrangements for meetings.

**Societies and organisations**

- F.315                    1988 May-June.  
  
Includes press release etc *re* the first awards of Lloyd's Tercentenary Foundation Fellowships.
- F.316                    1988 July.  
  
Application.
- F.317                    1988 August-September.  
  
Papers *re* meeting of the Trustees, 13 September 1989.
- F.318                    1989 February-March.  
  
Papers *re* meeting of the Trustees, 27 February 1989 (Flowers unable to attend) etc.
- F.319                    1989 May-June.  
  
Papers (annotated) *re* meeting of the Awards Sub-Committee, 9 May etc.
- F.320                    1990 January-February.  
  
Papers *re* meeting of the Trustees, 20 February 1990.
- F.321                    1990 June-July.  
  
Papers *re* applications for Lloyd's Tercentenary Foundation 1990 Fellowships.
- F.322                    1990 August-September.
- F.323                    1991 May-September.  
  
Correspondence *re* the appointment of new Trustees etc.

**Societies and organisations**

- F.324 1991 October.  
Papers *re* meeting of the Trustees, 5 November 1991.
- F.325 1991 October-December.  
Request (accepted) for Flowers to write an article on the work of Lloyd's Tercentenary Foundation for inclusion in *Lloyd's Log*, with related papers; correspondence *re* Flowers's retirement as a Trustee.
- F.326 1992 January-May.  
Correspondence *re* Flowers's article for *Lloyd's Log*, including offprint.
- F.327 1993 October.  
Brief correspondence *re* the criteria for awarding Lloyd's Tercentenary Foundation Fellowships.
- F.328-F.346 LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE 1991-1995 (LSHTM)**
- Flowers was a member of the London School of Hygiene and Tropical Medicine's Board of Management, 1992-1995 and served as Chairman, 1994-1995.  
The material consists of correspondence, typescript minutes of meetings etc.
- F.328 1991 March-April.  
Correspondence *re* Flowers joining the LSHTM Board of Management etc.
- F.329, F.330 1991 April-May.  
Correspondence and papers *re* the 1991-1992 recurrent grant allocation to the LSHTM and the decisions of the University of London Court.  
2 folders.

**Societies and organisations**

- F.331 1991 June-December.
- F.332 1992 January-March.  
Includes correspondence *re* LSHTM seeking direct access to the Universities Funding Council.
- F.333 1992 March.  
Brief correspondence *re* a memorial for C.E. Gordon Smith, former Dean of LSHTM.
- F.334 1992 April-July.  
Includes papers (annotated) for meeting of Board of Management, 10 June 1992.
- F.335 1992 October-November.
- F.336 1993 March-April.
- F.337 1994 July-August.  
Correspondence *re* the death of Sir John Field, Chairman of the Board of Management and *re* the appointment of a new Chairman.  
Flowers agreed to act as Chairman for an interim period.
- F.338-F.346 1994 October-1995 August.  
Correspondence largely *re* the appointment of a new Chairman of the Board of Management and a new Dean of the LSHTM.
- F.338 1994 3 October-10 November.
- F.339 1994 11-21 November.

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F.340 1994 22 November-2 December.

F.341 1994 2-9 December.

F.342 1994 12-19 December.

F.343 1994 21, 22 December.

F.344 1995 3 January-22 February.

F.345 1995 22 February-25 April.

F.346 1995 May-August.

**F.347                      MINISTRY OF DEFENCE                      1965-1967**

Flowers served as Chairman of a working party to review conventional armaments.

F.347 General correspondence.

**F.348-F.422                      NATIONAL PHYSICAL LABORATORY, TEDDINGTON,                      1965-1967**  
**MIDDLESEX**

F.348-F.394 General correspondence

F.395-F.422 Meetings

Flowers was Chairman of the Steering Committee of the National Physical Laboratory (NPL), 1965-1967.

### Societies and organisations

The Steering Committee was established in 1965 to be responsible to the Minister of Technology for advising on the selection of NPL projects and the allocation of resources to them.

<b>F.348-F.394</b>	<b>General correspondence</b>	<b>1965-1967</b>
F.348	1965 8-13 October.  Correspondence <i>re</i> Flowers's appointment as Chairman of the Steering Committee of the National Physical Laboratory etc.	
F.349	1965 26 October-15 November.	
F.350	1965 22 November-13 December.  Includes correspondence <i>re</i> membership of the Steering Committee.	
F.351	1965 10 December-1966 4 January.  Includes correspondence <i>re</i> the organisation of the NPL and <i>re</i> a proposed British Calibration Service.	
F.352	1966 5-17 January.  Correspondence <i>re</i> membership of the Steering Committee etc.	
F.353	1966 18-19 January.	
F.354	1966 27 January.  Copy of typescript draft entitled 'Proposals for: Unit for Radio-Frequency Measurement Standards at NPL', with related correspondence.	
F.355	1966 1-25 February.	

**Societies and organisations**

- F.356 1966 1, 3 March.  
Papers *re* meeting of Promotions Sub-Committee, 22 February 1966.  
Flowers was in the Chair.
- F.357 1966 1-7 March.
- F.358 1966 4 March.  
Appointments.
- F.359 1966 8-16 March.
- F.360 1966 17-22 March.  
Includes 12pp typescript, 'A note on materials science at the National Physical Laboratory 10 March 1966', by N.P. Allen.
- F.361 1966 18-30 March.  
Includes papers *re* the Froude Committee; 3pp typescript entitled 'Notes on Materials at NPL' (with 'Note prepared by Dr J.N. Fendley of NRDC' inscribed on front page).  
The Froude Committee was set up to replace the Froude Ship Research Committee and advise on the work of NPL's Ship Division.
- F.362 1966 24 March-4 April.  
Correspondence *re* promotions etc.
- F.363 1966 1-19 April.
- F.364 1966 4-20 April.  
Includes 3pp typescript memorandum by A.H. Cottrell *re* materials science at NPL and 2pp typescript comments by N.P. Allen.

### Societies and organisations

- F.365 1966 20 April-5 May.
- F.366 1966 6-17 May.  
Includes brief correspondence *re* the composition of the Morgan Committee.  
The Morgan Committee was set up to advise the Steering Committee on the NPL's work on materials science.
- F.367 1966 17-26 May.  
Includes correspondence *re* membership of the NPL Steering Committee and the Metrology Committee.
- F.368 1966 3-14 June.  
Includes correspondence *re* NPL building proposals.
- F.369 1966 15-28 June.
- F.370 1966 28 June-4 July.  
9pp (annotated) typescript draft, 'Industrial Aerodynamics: The Case for a new Low Speed Wind Tunnel at NPL', by J.V. Dunworth, Director of the NPL, with letter by Flowers commenting on the paper.
- F.371 1966 6-21 July.  
Includes 3pp typescript minutes of meeting *re* membership of the Visiting Board of the NPL, 24 June 1966 (Flowers attended).
- F.372 1966 25 July-1 August.  
Appointment.
- F.373 1966 27 July-12 August.  
Includes papers *re* the Morgan Committee.

### Societies and organisations

- F.374 1966 12 August.  
Papers *re* the Glazebrook Committee.  
The Glazebrook Committee was established to advise the Steering Committee on the NPL's work on measurement science.
- F.375 1966 16-31 August.  
Includes correspondence *re* meeting between Sir Frank Mason, member of the Steering Committee and Mr Shaw, Ministry of Aviation, about hovercraft research and development.
- F.376 1966 September-October.  
Appointment.
- F.377 1966 5-23 September.
- F.378 1966 29 September-10 October.  
Correspondence and papers *re* hovercraft development.
- F.379 1966 6-17 October.  
Correspondence *re* a proposed low speed wind tunnel for industrial aerodynamics research at NPL, including copies of letters, September-October 1966.
- F.380 1966 18-31 October.
- F.381 1966 1-24 November.
- F.382 1966 21 November-7 December.  
Appointment.
- F.383 1966 21 November-12 December.

**Societies and organisations**

- F.384 1967 12-27 January.  
Includes correspondence and papers *re* the organisation of hovercraft research.
- F.385 1967 25 January-27 February.  
Includes correspondence *re* Flowers's position as Chairman of the NPL Steering Committee following his appointment as Chairman of the Science Research Council.
- F.386 1967 24 February-15 March.  
Recommendation.
- F.387 1967 27 February-16 March.
- F.388 1967 16, 21 March.  
10pp typescript copy of paper entitled 'The Structure of Problems in Process Control' by Westcott, with related correspondence.
- F.389 1967 17 March-14 April.  
Includes correspondence *re* membership of the Aerodynamics Working Party and *re* carbon-14 dating by NPL.
- F.390 1967 13 April-2 May.  
Includes copy of revised typescript minutes of the meeting of the Ministry of Technology's Advisory Council on Technology, 15 March 1967.
- F.391 1967 27 April-17 May.  
Includes correspondence *re* the chairmanship of the Steering Committee and the chairmanship of the NPL Hovercraft Research Committee.
- F.392 1967 16-26 May.  
Includes brief correspondence *re* carbon-14 dating.

### Societies and organisations

- F.393 1967 22 May-23 June.  
Correspondence *re* the chairmanship of the NPL Hovercraft Research Committee.
- F.394 1967 31 May-25 July.  
Includes correspondence *re* carbon-14 dating.
- F.395-F.422 Meetings 1966-1967**
- The following sequence of material was found together and relates to meetings significant to the NPL Steering Committee. It includes agendas, papers for meetings (some annotated), briefing documents etc.  
The material has been arranged by meeting, in chronological order.
- F.395-F.397 Second meeting of the Steering Committee, NPL, 28 April 1966.  
3 folders.
- F.398 Copy of Ministry of Technology press notice *re* the NPL Steering Committee, 5 April 1966.  
The press notice was found with papers for the second meeting of the Steering Committee.
- F.399-F.401 Third meeting of the Steering Committee, NPL, 21 July 1966.  
3 folders.
- F.402, F.403 Fourth meeting of the Steering Committee, Royal Society, London, 18 August 1966.  
2 folders.
- F.404-F.406 Fifth meeting of the Steering Committee, NPL, 27 October 1966.  
3 folders.

**Societies and organisations**

- F.407-F.411 Sixth meeting of the Steering Committee, NPL, 29 December 1966.  
5 folders.
- F.412-F.416 Seventh meeting of the Steering Committee, NPL, 23 February 1967.  
5 folders.
- F.417 Meeting of the NPL Promotion Committee, NPL, 3 March 1967 (Flowers was in the Chair).
- F.418 Meeting of the Advisory Council of Technology, Ministry of Technology, London, 15 March 1967 (Flowers attended for one item).
- F.419 Eighth meeting of the Steering Committee, NPL, 27 April 1967.
- F.420, F.421 Meeting of the NPL Visiting Board, NPL, 9 May 1967.  
2 folders.
- F.422 Ninth meeting of the Steering Committee, NPL, 13 July 1967.
- F.423-F.522                      NUFFIELD FOUNDATION                      1990-1998**
- Flowers was a Managing Trustee of the Nuffield Foundation from 1982-1988 and served as its Chairman, 1987-1998.
- The material consists of correspondence and papers relating to Nuffield Foundation activities, grant applications to the Foundation in particular.
- Correspondents are largely serving officers of the Foundation.
- F.423 1990 June-July.
- F.424 1990 31 August, 1 September.

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- F.425 1990 3 September-10 October.
- F.426 1990 1-23 October.  
Correspondence *re* Trustees meeting, 19 October 1990 etc.
- F.427 1990 13-24 November.  
Includes correspondence *re* the chairmanship of a proposed consultative committee for a technology project.
- F.428 1990 27 November.
- F.429 1990 30 November, 3 December.
- F.430 1990 4 December-1991 4 January.
- F.431 1991 11 January-8 February.
- F.432 1991 11-14 February.
- F.433 1991 14-23 February.  
Includes correspondence *re* possible financial support for the British Academy.
- F.434 1991 3-23 March.
- F.435 1991 3 April-17 May.  
Includes faxed copy of letter to Flowers by J. Major MP, Prime Minister *re* the Nuffield Foundation's proposed Council on Bioethics.

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- F.436 1991 8 May, n.d.  
Includes typescript draft paper *re* membership of the Nuffield Council of Bioethics.
- F.437 1991 8-22 May.  
Includes correspondence *re* an application by the Nuffield Farming Scholarships Trust to set up a project in Kaliningrad, Russia.
- F.438 1991 23 May-9 July.
- F.439 1991 2 July.
- F.440 1991 July-November.
- F.441 1991 11-16 July.
- F.442 1991 17 July-8 August.
- F.443 1991 8-30 August.
- F.444 1991 2-7 September.
- F.445 1991 9 September-3 October.
- F.446 1991 3-11 October.  
Correspondence *re* internal Nuffield Foundation matters.
- F.447 1991 11 October-2 November.  
Includes correspondence *re* possible new Trustees.

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- F.448 1991 13 November-24 December.  
Includes correspondence *re* the Further and Higher Education Bill.
- F.449 1992 January-February.  
Correspondence and papers *re* possible new Trustees.
- F.450 1992 2-21 January.
- F.451 1992 30, 31 January.
- F.452 1992 3-20 February.
- F.453 1992 19-24 February.
- F.454 1992 2-13 March.  
Includes correspondence *re* possible new Trustees.
- F.455 1992 11 March-1 April.
- F.456 1992 29 April-29 May.
- F.457 1992 30 April, 2 May.
- F.458 1992 4, 6 June.
- F.459 1992 12 June-24 July.  
Includes correspondence *re* proposal by R. Gregory.

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- F.460 1992 31 July-11 September.  
Includes correspondence and papers *re* the difficulties of the Nuffield Chelsea Curriculum Trust.
- F.461 1992 16 September-3 October.  
Includes correspondence *re* staff matters.
- F.462 1992 16 October-20 November.
- F.463 1992 30 November.
- F.464 1992 7-19 December.  
Correspondence *re* internal Nuffield Foundation matters etc.
- F.465 1992 9 December-1993 7 January.
- F.466 1993 7 January.  
Papers *re* the Nuffield Chelsea Curriculum Trust etc.
- F.467 1993 19 January-24 February.
- F.468 1993 1-15 March.
- F.469 1993 18 March.
- F.470 1993 26 March-27 April.
- F.471 1993 May-June.

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|-------|---|
| F.472 | 1993 10-18 May.   |
| F.473 | 1993 11-21 June.  |
| F.474 | 1993 5 July.  |
| F.475 | 1993 7 July.  |
| F.476 | 1993 14-30 July.<br>Includes papers <i>re</i> Nuffield Inquiry into dental auxiliaries. |
| F.477 | 1993 August-September.  |
| F.478 | 1993 12-28 August.  |
| F.479 | 1993 1 September-7 October.   |
| F.480 | 1993 19 October-20 November.  |
| F.481 | 1993 3-22 December.   |
| F.482 | 1993 7 December.  |
| F.483 | 1994 January-February.  |
| F.484 | 1994 March.   |
| F.485 | 1994 April-May.   |

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- F.486 1994 June.
- F.487 1994 6-18 July.
- F.488 1994 20 July-22 August.
- F.489 1994 7 October-14 November.
- F.490 1994 17 November-16 December.
- F.491 1994 14-23 December.  
Papers *re* the appointment of a new Director of the Nuffield Foundation etc.
- F.492 1994 23, 30 December.  
Includes 2pp manuscript letter to Flowers *re* the work of the Nuffield Council on Bioethics from its Chairman, Sir P. Nairne.
- F.493 1995 January-February.
- F.494 1995 2 March, 27 April.
- F.495 1995 March-May.  
Includes correspondence *re* the appointment of a new Director of the Nuffield Foundation.
- F.496 1995 June.
- F.497 1995 4 July.  
Typescript paper *re* House of Lords reform (annotated by Flowers), sent by R. Hazell, Director of the Constitution Unit, London.

**Societies and organisations**

- F.498 1995 7 July-24 August.
- F.499 1995 31 August-13 September.  
Includes correspondence *re* the Constitution Unit's work on the implementation of constitutional reform.
- F.500 1995 18 September-4 October.
- F.501 1995 3-10 October.
- F.502 1995 11 October-23 November.
- F.503 1995 25 November-29 December.  
Includes correspondence *re* a proposed joint initiative by the Royal Institution of Great Britain and the British Association for the Advancement of Science.
- F.504 1996 19 January-3 March.
- F.505 1996 28 February.  
Papers *re* appointments to the Nuffield Council on Bioethics.
- F.506 1996 5-25 March.
- F.507 1996 2-16 April.
- F.508 1996 29 April-20 May.  
Correspondence *re* grant application to write a book.
- F.509 1996 3 May-10 June.

**Societies and organisations**

- F.510 1996 5 June-19 July.
- F.511 1996 October-November.  
Includes 2pp typescript letter by Flowers *re* the payment of university overheads.
- F.512 1996 December.  
Includes papers *re* the appointment of Flowers's successor as Chairman of the Foundation.
- F.513 1997 February-March.
- F.514 1997 May.
- F.515 1997 June-July.
- F.516 1997 August.
- F.517 1997 3-29 October.  
Includes correspondence *re* proposal to establish a College of Teachers.
- F.518 1997 23 October-7 November.
- F.519 1997 11 November-22 December.
- F.520 1998 January.
- F.521 1998 February.  
Correspondence *re* staff matters.

**Societies and organisations**

F.522 1998 March.

**F.523-F.556 PARLIAMENTARY AND SCIENTIFIC COMMITTEE 1990-1997**

Flowers served as President of the Parliamentary and Scientific Committee, 1993-1997.

The material is arranged in a single chronological sequence and includes correspondence, minutes of meetings etc.

F.523 1990 October-1991 January.

Papers *re* meetings etc.

F.524 1991 March, December.

Invitation (accepted) to become a member of the new Council of the Parliamentary and Scientific Committee etc.

F.525 1992 January-April.

Includes correspondence *re* a *Science in Parliament* article '20 years ago'.

F.526 *ca* 1993.

F.527 1993 February-April.

F.528 1993 May-August.

Includes correspondence *re* science and technology representation in British Embassies.

F.529 1993 13 September-25 October.

F.530 1993 26 October-29 November.

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- F.531 1993 9-11 November.
- F.532 1993 December.
- F.533 1994 6 January-3 February.  
Includes correspondence *re* the need for legislation to protect medical research workers who use animals in experimental work; correspondence *re* the decision to dispense with the office of Chief Scientist and Technologist in the Department of Trade and Industry.
- F.534 1994 21-28 January.  
Recommendation.
- F.535 1994 February.  
Includes correspondence *re* the protection of medical research workers.
- F.536 1994 March.
- F.537 1994 *ca* April.  
Includes *Annual Report 1993* of the Parliamentary and Scientific Committee (with foreword by Flowers).
- F.538 1994 May-June.  
Includes copies of correspondence *re* science and technology representation at British Embassies.
- F.539 1994 23 May, 15 June.
- F.540 1994 July-November.
- F.541 1994 December.

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- F.542 1995 January-February.  
Includes invitation by the Foreign and Commonwealth Office (accepted) for Flowers to represent the Parliamentary and Scientific Committee as a member of the Consultative Group on Overseas Science and Technology Work, with material *re* its first meeting, 6 February 1995 (Flowers unable to attend).
- F.543 1995 8-26 March.  
Correspondence and papers *re* the future funding of the Parliamentary Office of Science and Technology (POST).  
Flowers, as President of the Parliamentary and Scientific Committee, encouraged Parliamentary Members of the Committee favourable to POST to write letters in its support.
- F.544 1995 March-September.  
Correspondence *re* award etc.
- F.545 1995 April.
- F.546 1995 May.  
Includes typescript report by H.P. Jost on the meeting of the Consultative Group on Overseas Science and Technology Work, 18 May 1995.
- F.547 1995 June-July.
- F.548 1995 September.
- F.549 1995 October-November.  
Includes papers *re* the visit to China by a Parliamentary and Scientific Committee delegation (Flowers was a member), 3-12 November 1995.
- F.550 1995 December.

**Societies and organisations**

- F.551 1996 January.
- F.552 1996 1 February.
- F.553 1996 February-March.  
Includes correspondence *re* prior options reviews of public sector research establishments.
- F.554 1996 April.
- F.555 1996 May, July.
- F.556 1997 May.  
Elections.
- F.557-F.579 PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS 1962-1967**
- The material consists of correspondence, papers relating to conferences and meetings etc.
- F.557-F.559 1962 March-May.  
Correspondence and papers *re* Pugwash Conferences on Science and World Affairs (COSWA) meeting, Gonville and Caius College, Cambridge, 19 May 1962 (Flowers attended as an observer).  
3 folders.
- F.560 1962 *ca* May-June.  
Distributed papers.

### Societies and organisations

- F.561 1962 *ca* July.  
Correspondence and papers *re* meeting of British participants at the Cambridge Pugwash COSWA Conference, 21 July, London (Flowers unable to attend).
- F.562 1962 June-September.  
Correspondence and papers *re* Ninth Pugwash Conference on Science and World Affairs, Cambridge, 25-30 August 1962 (Flowers attended as an observer).  
Includes typescript reports of Working Group I on 'Problems of reduction and elimination under international control of weapons of mass destruction and of their means of delivery' (the Final Report has 'written by BHF' annotated on it).
- F.563 1962 4 September-5 October.
- F.564 1962 26 September-3 December.  
Correspondence *re* arrangements for a meeting of West European scientists on the subject of disarmament, Gonville and Caius College, Cambridge, 8-10 December 1962 etc.
- F.565 1963 February-June, n.d.  
Includes informal invitation (accepted) for Flowers to attend Pugwash Conference in Dubrovnik, Yugoslavia; invitation (accepted by Flowers) to a dinner meeting to discuss disarmament, London, 9 May 1963.
- F.566-F.568 1963 May-*ca* September.  
Correspondence and papers *re* 11th Pugwash Conference on Science and World Affairs, Dubrovnik, Yugoslavia, 20-25 September 1963.  
3 folders  
Includes invitations for Flowers to visit research institutes in Yugoslavia.
- F.569 1963 October.  
Includes 2pp typescript letter by Flowers *re* the method of operation of Pugwash working groups.

### Societies and organisations

- F.570 1963 December-1964 February.  
Includes brief correspondence *re* the possibility of international seismic research in the Alaska (USA) - Kamchatka (USSR) region.
- F.571-F.575 Material *re* 13th Pugwash Conference on Science and World Affairs, Karlovy-Vary, Czechoslovakia, 13-19 September 1964.  
Flowers attended the Conference, as well as a preparatory meeting in Prague, 9-12 September.
- F.571, F.572 1964 February-April.  
2 folders.  
Includes correspondence *re* arrangements; brief correspondence *re* the possible establishment of a Manchester Pugwash Group.
- F.573, F.574 1964 May-June.  
2 folders.  
Correspondence and papers *re* meeting in Cambridge, 23 May 1964 to discuss the programme for the Conference etc, including 1p (annotated) typescript draft by Flowers entitled 'Progress for complete disarmament'.
- F.575 1964 July-October.  
Includes correspondence *re* arrangements for a de-briefing meeting on the Conference, Whitehall, London, 26 October 1964; 2pp typescript paper by Flowers entitled 'A step towards nuclear disarmament'; 7pp typescript paper by N. Talenski entitled 'Anti-rocket systems and the problem of disarmament', with precis attached.
- F.576 1964 November-December.
- F.577 1965 January-February.  
Includes invitation (declined) for Flowers to attend the 14th Pugwash Conference on Science and World Affairs, Venice, Italy, 11-16 April 1965; brief correspondence *re* Pugwash and the Charity Commissioners.  
Flowers appears to have attended the Venice Conference despite initially declining the invitation.

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- F.578 1965 April, October-November.  
Includes invitation (declined) to attend 15th Pugwash Conference on Science and World Affairs, Addis Ababa, Ethiopia, 29 December 1965-4 January 1966.
- F.579 1966-1967.
- F.580-F.587 ROYAL COMMISSION ON ENVIRONMENTAL POLLUTION 1974-1976**
- Flowers was Chairman of the Royal Commission on Environmental Pollution, 1973-1976.  
The material is arranged in chronological order and consists largely of press cuttings, many relating to the Royal Commission's 6th Report, *Nuclear Power and the Environment*, published in September 1976.
- F.580 1974-1975.  
Copies of two press notices.
- F.581 1976 June.
- F.582-F.585 1976 September.  
Press cuttings *re* the Royal Commission's 6th Report, *Nuclear Power and the Environment*.  
4 folders.
- F.586 1976 October.  
Newspaper cuttings etc *re* the Royal Commission's 6th Report, including letter by Flowers to the Editor of *The Times*, sent in response to a letter written by R.H. Mole.
- F.587 1976 November-December.

**Societies and organisations**

**F.588-F.599                      ROYAL SOCIETY                      1976-1983**

Flowers was elected to the Fellowship of the Royal Society in 1961.

The material consists of correspondence and papers relating to elections and awards.

- |       |                             |
|-------|-----------------------------|
| F.588 | 1976 June-September.        |
| F.589 | 1976 October.               |
| F.590 | 1976 December-1977 January. |
| F.591 | 1977 August.                |
| F.592 | 1979 July-September.        |
| F.593 | 1980 January-April.         |
| F.594 | 1980 November.              |
| F.595 | 1981 January-February.      |
| F.596 | 1982 March.                 |
| F.597 | 1982 April-June.            |
| F.598 | 1982 October-1983 May.      |
| F.599 | 1983 January-May.           |

**Societies and organisations**

**F.600-F.651 UNITED KINGDOM ATOMIC ENERGY AUTHORITY (UKAEA) 1958-1977**

Flowers worked at the Atomic Energy Research Establishment (AERE), Harwell, 1946-1950 and was Head of Theoretical Physics Division, AERE, Harwell, 1952-1958. His association with the UKAEA continued following his appointment at the University of Manchester, in particular through his role as a consultant.

Flowers resigned his consultancy in 1964 but in 1971 he was appointed a part-time Member of the United Kingdom Atomic Energy Authority.

The material below consists of correspondence and papers relating to Flowers's association with the UKAEA during the years, 1958-*ca* 1967 and 1973-1977.

F.600-F.603 'UKAEA Correspondence'. Contents of file so inscribed, divided into four for ease of reference. 1958-1961.

F.600 1958 August.  
  
2pp typescript 'Notes on a Tour of the Reactor Division on 12 August 1958', by Flowers.

F.601 1958 May.  
  
Appointment.

F.602 1960 January, April.  
  
Includes letter by Flowers *re* a brief visit to the Atomic Energy Establishment, Winfrith, Dorset.

F.603 1961 July-August.  
  
Correspondence *re* Flowers's consultancy etc.

### Societies and organisations

- F.604-F.617 'Harwell'. Contents of folder so inscribed, divided into fourteen for ease of reference. 1958-1966.
- F.604 1958 October-November.  
Includes invitation (accepted) for Flowers to become a member of the CTR Advisory Committee.
- F.605 1958 December-1959 January.  
Includes 8pp (annotated) typescript by P. Schofield, 'A review of neutron thermalisation work at Harwell'.
- F.606 1959 May-November.  
Appointments etc.
- F.607 1960 February.  
Appointment.
- F.608 1960 April-May.
- F.609 1960 July-August.
- F.610 1960 September-November.  
Appointments.
- F.611 1960 November-1961 February.
- F.612 1961 June.  
Appointment.
- F.613 1961 June-November.

**Societies and organisations**

- F.614 1962-1963.
- F.615 1964 March-November.  
Includes correspondence *re* Flowers's resignation as a UKAEA consultant.
- F.616 1965.  
Includes correspondence *re* appointments.
- F.617 1966.
- F.618-F.624 'UKAEA (London)'. Contents of file so inscribed, divided into seven for ease of reference. 1961-*ca* 1967.
- F.618 1961-1962.  
Correspondence *re* Flowers's service on Appointments Board Panels etc.
- F.619 1963 March.  
Brief correspondence *re* the value of ordinary degree courses for Experimental Officers.
- F.620 1963 June.  
Appointment.
- F.621 1963 July, November.  
Includes 2pp typescript letter by Flowers *re* the organisation of the UKAEA.
- F.622 1964.
- F.623 1965-1966.

### Societies and organisations

- F.624                    *ca* 1967.
- F.625, F.626            'Harwell Cyclotron'. Contents of file so inscribed, divided into two for ease of reference. 1964-1965.
- Flowers was one of several consultants brought together to discuss the merits of a proposal to modify Harwell's 180 MeV cyclotron to give a much higher beam current.
- F.625                    1964 August-November.
- Includes typescript notes by B. Rose *re* the Harwell synchrocyclotron.
- F.626                    1964 December-1965 January.
- Includes 3pp manuscript notes by Flowers; 4pp typescript letter by Flowers *re* the future of the Harwell synchrocyclotron; 8pp typescript draft report by W.E. Burcham entitled 'The Harwell Synchrocyclotron'; copy of typescript minutes of meeting to discuss the Harwell synchrocyclotron, 30 December 1964 (Flowers attended).
- F.627-F.651            Correspondence and papers relating to Flowers's service as a part-time Member of the United Kingdom Atomic Energy Authority. 1973-1977.
- F.627                    1973 August-October.
- F.628                    1973 29 October.
- F.629                    1973 November.
- Includes 6pp typescript entitled 'Note of a discussion at a meeting of the Secretary of State for Trade and Industry and Minister for Industry with the Atomic Energy Authority ... 8 November 1973'.
- F.630                    1973 4-10 December.
- Typescript UKAEA paper on 'Fast Reactor Strategy', 14pp, with related correspondence.

**Societies and organisations**

- F.631 1973 17-18 December.  
Includes copy of 3pp typescript letter from Flowers to Edward Heath MP, Prime Minister, *re* the nuclear power programme.
- F.632 1973 18 December.
- F.633 1974 January-May.
- F.634 1974 19-26 June.
- F.635 1974 26 June-3 July.  
Includes typescript draft (annotated) of the UKAEA's twentieth Annual Report, with 2pp typescript comments by Flowers.
- F.636 1974 July-September.  
Appointment etc.
- F.637 1974 November.
- F.638 1974 December.  
Includes 2pp letter by Flowers *re* papers for a UKAEA meeting, 5 December 1974 (he was unable to attend).
- F.639 1975 February-May.
- F.640 1975 June-September.  
Includes brief correspondence *re* a proposed proton pituitary therapy project involving the Harwell cyclotron.
- F.641 1975 November.

**Societies and organisations**

- F.642 1976 5-9 March.
- F.643 1976 10-29 March.  
Includes correspondence *re* Flowers's re-appointment as a part-time Member of the UKAEA.
- F.644 1976 April, June.  
Includes correspondence *re* Flowers's speech at the National Energy Conference, London, 22 June 1976.  
See also D.148.
- F.645 1976 July.
- F.646 1976 August-September.
- F.647 1976 September-October.
- F.648 1976 October-November.  
Includes correspondence *re* British Nuclear Fuels Ltd's Windscale planning application.
- F.649 1976 December.  
Includes copy of 3pp typescript letter from Flowers to P.D. Shore MP, Secretary of State for the Environment *re* the Windscale planning application and the processing of foreign fuels.
- F.650 1977 February-April.
- F.651 1977 May-July.

**Societies and organisations**

**F.652-F.661**

**UNIVERSITY GRANTS COMMITTEE (UGC)**

**1965-1966**

In 1965 Flowers was appointed Chairman of a Working Group set up by the University Grants Committee and the Council for Scientific Policy, with the terms of reference:

'To assess the probable computer needs, during the next five years, of users in Universities and civil research establishments receiving support from Government funds'.

The report of the Working Group chaired by Flowers recommended that it should be succeeded by a 'suitably constituted permanent body'. Consequently the Computer Board for Universities and Research Councils was created and Flowers accepted appointment as its first Chairman in June 1966.

An Interim Computer Panel was established by the University Grants Committee, with Sir Willis Jackson as Chairman. Its purpose was to make recommendations on computers for universities where urgent action arising from the report of the Working Group could not be delayed until the creation of the Computer Board.

The material listed below was found together. It largely consists of correspondence and papers for meetings relating to the Interim Computer Panel.

See also F.68-F.179 for papers relating to the Computer Board.

F.652

1965 May-October.

Includes invitation (accepted) to attend meeting organised by N. Mott 'UGC - Dirigiste or Laissez-faire?', Cambridge, 16-17 July 1965, with related correspondence; brief correspondence *re* the implementation of *A report of a Joint Working Group on Computers for Research*.

F.653

1966 January.

Includes copy of 2pp typescript letter from Flowers to Sir John Wolfenden *re* the control of scientific research expenditure, 10 January 1966.

F.654

1966 *ca* February.

Papers *re* meeting of the UGC Computer Panel, 11 February 1966 (Flowers unable to attend) etc.

**Societies and organisations**

- F.655 1966 February.  
12pp typescript paper by K.V. Roberts for the UGC Computer Panel, entitled 'Some notes on the large KDF9 computers'.
- F.656 1966 *ca* March.  
Papers *re* meeting of UGC Computer Panel, 7 March 1966.
- F.657 1966 March.  
Includes reply by Flowers to an invitation for him to become a member of a new Sub-Committee on Mathematics.
- F.658, F.659 1966 *ca* April.  
Papers *re* meeting of UGC Computer Panel, 13 April 1966.  
2 folders.
- F.660 1966 1-22 April.  
Includes correspondence *re* the financing of the computing needs of Universities and Research Councils.
- F.661 1966 *ca* April.  
Papers *re* meeting of UGC Computer Panel, 28 April 1966.
- F.662-F.686 UNIVERSITY OF LONDON 1980-1998**
- Flowers was Vice-Chancellor of the University of London, 1985-1990.
- F.662-F.664 Working Party on Medical and Dental Teaching Resources
- F.665-F.686 General correspondence



**Societies and organisations**

- F.669                    1992 May.  
Brief correspondence *re* University of London affairs etc.
- F.670                    1992 July-September.  
Includes correspondence *re* a proposal by Goldsmiths' College, London to purchase and develop a site.
- F.671                    1992 September.
- F.672                    1992 October-December.
- F.673                    1993 January-May.
- F.674                    1993 May-June.
- F.675                    1993 July.  
Award.
- F.676                    1993 July-October.
- F.677                    1994 April-June.
- F.678                    1994 July.  
Correspondence *re* reforms affecting London teaching hospitals etc.
- F.679                    1994 September-October.

**Societies and organisations**

- F.680                      1995 June, September.
- Includes invitation (declined) for Flowers to join the Council of Royal Holloway and Bedford New College, London.
- F.681                      1996 January-March.
- Invitations (accepted) for Flowers to accept nomination for an Honorary Degree and to become an Honorary Fellow of Royal Holloway and Bedford New College, London; correspondence *re* charges for the use of the University of London Library; request (accepted) for Lord and Lady Flowers to host a celebration of 25 years of Nightline, 6 June 1996.
- F.682                      1996 May-September.
- Includes correspondence *re* arrangements for Foundation Day, 13 November 1996.
- Flowers was awarded an Honorary Degree by the University of London on this occasion.
- F.683                      1996 September-October.
- Recommendation.
- F.684                      1996 November-December.
- F.685                      1997 January-August.
- Includes brief correspondence *re* Flowers's contribution of a supporting statement about Nightline for its Annual Report.
- F.686                      1998.

**SECTION G**

**CORRESPONDENCE**

**G.1-G.529**

G.1-G.242      PERSONAL CORRESPONDENCE

G.243-G.437      DAY FILES

G.438              CORRESPONDENCE WITH J.W. BRAY MP

G.439-G.469      CORRESPONDENCE WITH LORD ROTHSCHILD

G.470-G.529      REFERENCES AND RECOMMENDATIONS

**Correspondence**

**G.1-G.242**

**PERSONAL CORRESPONDENCE**

**1979-1997**

Contents of Flowers's correspondence files inscribed 'Personal'.

The personal correspondence is the main sequence of incoming correspondence in the collection with copies of replies by Flowers. The correspondence is addressed to him in various capacities so the subject matter is broad, covering a wide range of professional issues and more personal matters relating to his colleagues, friends, and family.

Correspondence relating to the same subject was generally grouped into bundles within each of Flowers's files. These bundles were arranged in chronological order by the latest date within each bundle. As a result there is frequently an overlap in date span between bundles. The correspondence in the files has been subdivided into folders for ease of reference without any alteration to the original arrangement. As a result this date overlap is reflected in the catalogue entries.

**G.1-G.3**

**1979 August-1981 May.**

G.1

1979 August-December.

G.2

1980 January-July.

G.3

1981 March-May.

**G.4-G.10**

**1980 January-1982 January.**

G.4

1980 January-March.

G.5

1980 April.

G.6

1980 April, May.

G.7

1980 June-December.

### Correspondence

- G.8 1981 January-March.  
Includes correspondence *re* retirement from the Atomic Energy Authority, award of Officier de la Légion d'Honneur.  
See also A.110 and D.279.
- G.9 1981 April-October.
- G.10 1981 December, 1982 January.
- G.11-G.17 1982 January-December.**
- G.11 1982 January-June.
- G.12 1982 May.
- G.13 1982 June-August.  
Includes correspondence *re* the work of H. Bohr including typescript offprints and drafts.
- G.14 1982 July.
- G.15 1982 August-October.
- G.16 1982 October-December.
- G.17 1982 November, December.

**Correspondence**

<b>G.18-G.25</b>	<b>1983 January-October.</b>
G.18	1983 January-April.
G.19	1983 January, February.
G.20	1983 April-August.
G.21	1983 May.
G.22	1983 June-August.
G.23	1983 August-October.
G.24	1983 September, October.
G.25	1983 September.
<b>G.26-G.28</b>	<b>1983 April-November.</b>
G.26	1983 April-September.
G.27	1983 September, October.
G.28	1983 October, November.

**Correspondence**

**G.29-G.43**

**1983 November-1984 December.**

G.29

1983 November, December.

Includes correspondence *re Nuclear Power and the Environment*, Sixth Report of the Royal Commission on Environmental Pollution (HMSO, 1976)

G.30

1984 January.

G.31

1984 January, February.

G.32

1984 February.

G.33

1984 February, March.

G.34

1984 March-May.

G.35

1984 April-May.

G.36

1984 April, May.

G.37

1984 April-June.

Includes correspondence *re Nuclear Power and the Environment*, Sixth Report of the Royal Commission on Environmental Pollution (HMSO, 1976).

G.38

1984 April-July.

G.39

1984 August-October.

### Correspondence

- G.40 1984 August.
- G.41 1984 September-November.
- G.42 1984 October, November.
- G.43 1984 November, December.
- G.44-G.60 1984 March-1987 December.**
- G.44 1984 March-December.  
Includes correspondence *re* the treatment by Yugoslav authorities of I. Supek.
- G.45 1984 December, 1985 January.
- G.46 1985 January-May.  
Includes correspondence *re* second edition of *Properties of Matter* by B.H. Flowers and E. Mendoza, John Wiley & Sons Ltd, 1970.  
See also E.21-E.28.
- G.47 1985 March, April.
- G.48 1985 April.
- G.49 1985 May, June.
- G.50 1985 May-July.  
Includes correspondence *re* honorary degrees from Dundee and Oxford.

### Correspondence

- G.51                    1985 July.  
  
Letter to Lord Rothschild, 10 July 1985 and correspondence and papers May-September 1976 *re Nuclear Power and the Environment*, Sixth Report of the Royal Commission on Environmental Pollution (HMSO, 1976).  
  
See also D.151, D.152 and F.580-F.587.
- G.52                    1985 July, August.
- G.53                    1986 January-July.  
  
Includes correspondence *re* proposal of R.E. Peierls for Copley Medal.  
  
See also A.154.
- G.54                    1986 August, September.
- G.55                    1987 July-October.  
  
Includes correspondence *re* the establishment of the Rank Chair of Human Nutrition, University of London; correspondence *re* arrangements for the 80th Birthday Symposium in honour of R.E. Peierls.
- G.56                    1987 July.
- G.57                    1987 August.
- G.58                    1987 September.
- G.59                    1987 November, December.
- G.60                    1987 December.

**Correspondence**

- G.61-G.66**                    **1987 December-1988 March.**
- G.61                            1987 December-1988 February.
- G.62                            1987 December-1988 February.
- G.63                            1987 December, 1988 January.
- G.64                            1988 February, March.
- G.65                            1988 March.
- G.66                            1988 March.
- G.67-G.69**                    **1988 March-June.**
- G.67                            1988 March-May.
- G.68                            1988 June.
- Includes correspondence *re* arrangements for Schuster Centenary  
                                  Celebration, Schuster Laboratory, University of Manchester, 23 November  
                                  1988.
- See also G.72.
- G.69                            1988 June.
- G.70**                            **1988 June-September.**
- G.70                            1988 June-September.

### Correspondence

**G.71-G.74**                    **1988 September-December.**

G.71                            1988 September, October.

There is some correspondence from January 1988.

Includes correspondence *re* invitation to be principal guest speaker at the Installation Dinner for the new Master of the Worshipful Company of Scientific Instrument Makers, London, 21 October 1988.

G.72                            1988 September-November.

There is some correspondence from March 1988.

Includes correspondence and 20pp A5 typescript speech with annotations *re* Schuster Centenary Celebration, Schuster Laboratory, University of Manchester, 23 November 1988.

See also G.68.

G.73                            1988 September.

G.74                            1988 November, December.

**G.75-G.85**                    **1988 November-1990 January.**

G.75                            1988 November-1989 January.

G.76                            1988 December-1989 February.

G.77                            1989 February, March.

Includes correspondence *re* invitation to write obituary of Sir Alec Merrison for *Physics World* (declined).

See also G.79.

G.78                            1989 March, April.

### Correspondence

- G.79                    1989 April-June.  
  
Correspondence etc. *re* arrangements for service of thanksgiving for Sir Alec Merrison, Bristol Cathedral, 8 June 1989.  
  
See also G.77.
- G.80                    1989 June.
- G.81                    1989 June.
- G.82                    1989 July, August.
- G.83                    1989 September-November.
- G.84                    1989 December, 1990 January.
- G.85                    1989 December.
- G.86-G.96            1990 January-July.**
- G.86                    1990 January.
- G.87                    1990 January-October.
- G.88                    1990 January, February.
- G.89                    1990 February.

### Correspondence

- G.90 1990 March, April.  
Includes correspondence *re* election of Lord and Lady Flowers to honorary life membership of the University of London Union, (see A.136); invitation from the International Atomic Energy Agency to chair a proposed group to investigate the radiological consequences in the USSR from the Chernobyl accident.
- G.91 1990 May.
- G.92 1990 May.
- G.93 1990 May, June.
- G.94 1990 June, July.
- G.95 1990 June, July.  
There is some correspondence from April 1989.  
Includes correspondence *re* conferral of Honorary Degree of Doctor of Science from the National University of Ireland.
- G.96 1990 July.
- G.97-G.109 1990 April-December.**
- G.97 1990 April-July.  
Includes correspondence *re* Flowers's acceptance of invitation to give opening address at the 40th Pugwash Conference, Egham, Surrey, 16 September 1990.  
See also D.387.
- G.98 1990 July, August.

**Correspondence**

- G.99 1990 July, August.
- G.100 1990 August.
- G.101 1990 August, September.  
Includes correspondence *re* Flowers's opening address at the 40th Pugwash Conference, Egham, Surrey, 16 September 1990, and correspondence *re* tenth anniversary of the Radioactive Waste Management Advisory Committee.  
See also D.387, G.97.
- G.102 1990 September, October.
- G.103 1990 September, October.
- G.104 1990 September.
- G.105 1990 October, November.
- G.106 1990 November.
- G.107 1990 November.
- G.108 1990 November, December.
- G.109 1990 December.

**Correspondence**

<b>G.110-G.124</b>	<b>1990 December-1991 July.</b>
G.110	1990 December, 1991 January.
G.111	1991 January.
G.112	1991 January.
G.113	1991 February.
G.114	1991 February, March.
G.115	1991 February-May.
G.116	1991 March, April.
G.117	1991 March-May.
G.118	1991 March, April.  Includes correspondence <i>re</i> service of thanksgiving for the life of D.F. Jackson.
G.119	1991 March.
G.120	1991 April.
G.121	1991 April-June.  Includes correspondence <i>re</i> proposals to break up the Australian National University and correspondence with J. Freeman <i>re</i> her recent autobiography.

**Correspondence**

- G.122                    1991 May.
- G.123                    1991 May.
- G.124                    1991 June, July.  
  
Includes correspondence *re* proposals to break up the Australian National University.
- G.125-G.137            1991 June-December.**
- G.125                    1991 June, July.
- G.126                    1991 June-October.
- G.127                    1991 July.
- G.128                    1991 July, August.  
  
Includes correspondence *re* proposed European Theoretical Nuclear Physics Institute.
- G.129                    1991 July, August.  
  
Includes correspondence *re* Honorary Fellowship of Goldsmith's College, University of London.
- G.130                    1991 July, August.
- G.131                    1991 September.

### Correspondence

- G.132                    1991 October.  
  
Includes correspondence *re* funding arrangements for the Institute of Advanced Studies at the Australian National University.
- G.133                    1991 October, November.  
  
Includes correspondence *re* the British Technology Group Bill.
- G.134                    1991 October-December.  
  
There is some correspondence from July 1991.
- G.135                    1991 November, December.  
  
Includes correspondence *re* British Technology Group Bill.
- G.136                    1991 November, December.
- G.137                    1991 November, December.
- G.138-G.151            1991 December-1992 June.**
- G.138                    1991 December, 1992 January.
- G.139                    1992 January.
- G.140                    1992 January.
- G.141                    1992 January, February.
- G.142                    1992 February.

**Correspondence**

G.143	1992 February.
G.144	1992 February.
G.145	1992 February, March.
G.146	1992 February-April.
G.147	1992 March.
G.148	1992 April, May.
G.149	1992 May, June.
G.150	1992 June.
G.151	1992 June.
<b>G.152-G.163</b>	<b>1992 June-December.</b>
G.152	1992 June, July.
G.153	1992 June, July.
G.154	1992 July.

### Correspondence

- G.155 1992 August, September.  
Includes correspondence *re* the Royal Society biographical memoir of Sir Alec Merrison.
- G.156 1992 September.
- G.157 1992 September, October.
- G.158 1992 October.  
Includes correspondence *re* Daphne Jackson Memorial Fellowships Trust.
- G.159 1992 October, November.
- G.160 1992 November.
- G.161 1992 November.
- G.162 1992 November, December.  
Includes correspondence *re* publication of opening speech by Flowers at the Conference on Technology Transfer and Implementation, London, 6 July 1993.  
See also D.421.
- G.163 1992 December.
- G.164-G.171 1993 January-August.**
- G.164 1993 January.  
There is some correspondence from September and November 1993.

### Correspondence

- G.165 1993 February, March.
- G.166 1993 February.
- G.167 1993 February.  
Includes correspondence *re* European Science Foundation.
- G.168 1993 April, May.
- G.169 1993 May, June.  
Includes correspondence *re* arrangements to visit to the Czech Republic.
- G.170 1993 June.
- G.171 1993 June-August.
- G.172-G.177 1993 June-December.**
- G.172 1993 June-August.  
Includes correspondence *re* Chernobyl accident after effects; and correspondence *re* Royal Society biographical memoirs of Lord Kearton and Sir Alec Merrison.
- G.173 1993 August, September.  
Includes correspondence *re* biographical memoir of K.E.J. Fuchs.
- G.174 1993 October, November.
- G.175 1993 November, December.

### Correspondence

- G.176                    1993 December.  
There is some correspondence from October 1993.
- G.177                    1993 December.
- G.178-G.185            1994 January-June.**
- G.178                    1994 January, February.  
Includes correspondence *re* biographical memoir of Sir Alec Merrison.
- G.179                    1994 February.  
Includes correspondence *re* article in *The Sunday Times* on the Wellcome Trust.
- G.180                    1994 February, March.
- G.181                    1994 March, April.
- G.182                    1994 April, May.
- G.183                    1994 May, June.  
Includes 4pp typescript autobiographical sketch sent to Lord Dainton.
- G.184                    1994 May, June.
- G.185                    1994 June.

### Correspondence

**G.186-G.191**

**1994 June-December.**

G.186

1994 June-August.

There is some correspondence from April 1994.

G.187

1994 August.

G.188

1994 September.

G.189

1994 October.

G.190

1994 November.

There is some correspondence from July 1994.

Includes correspondence *re* views of Flowers on the Crown Prosecution Service.

G.191

1994 December.

**G.192-G.203**

**1994 December-1995 June.**

G.192

1994 December, 1995 January.

Includes correspondence *re* biographical memoir of Sir Alec Merrison.

G.193

1995 January, February.

Includes correspondence *re* University College London Hospitals; and correspondence *re* arrangements for 'Environmental policy: the last 25 years and the next 25 years', Jubilee Seminar, Royal Commission on Environmental Pollution, London, 28 March.

See also D.452 and G.194.

### Correspondence

- G.194 1995 February, March.  
  
Includes correspondence *re* biographical memoirs of Sir Alec Merrison and J.M. Cassels; and correspondence *re* arrangements for 'Environmental policy: the last 25 years and the next 25 years', Jubilee Seminar, Royal Commission on Environmental Pollution, London, 28 March  
  
See also D.452, G.294.
- G.195 1995 February.
- G.196 1995 April.  
  
Includes correspondence *re* changes to hospital services in London.
- G.197 1995 April, May.
- G.198 1995 April.
- G.199 1995 May.
- G.200 1995 May, June.
- G.201 1995 June.  
  
Includes correspondence *re* the Radioactive Waste Management Advisory Committee and radioactive waste management.
- G.202 1995 June.
- G.203 1995 June.

### Correspondence

- G.204-G.213**      **1995 June-December.**
- G.204              1995 June, July.
- G.205              1995 July.  
Includes correspondence *re* report of the British Pugwash Group on British nuclear weapons policy.
- G.206              1995 July, August.
- G.207              1995 August.  
Includes correspondence *re* award of Honorary D.Sc. from the University of Reading.
- G.208              1995 September.  
There is some correspondence from July 1995.  
Includes correspondence *re* award of Honorary D.Sc. from the University of Reading.
- G.209              1995 September, October.  
Includes correspondence *re* research project of J. Argyris.
- G.210              1995 October.
- G.211              1995 November, December.  
There is some correspondence from July 1995.  
Includes correspondence *re* research project of J. Argyris; correspondence *re* the award of an Honorary Fellowship of the University of Wales Swansea.
- G.212              1995 December.

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| <b>G.214-G.228</b> | <b>1996 January-December.</b>  |
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| G.218              | 1996 February-April.   |
| G.219              | 1996 March.  |
| G.220              | 1996 April, May.   |
| G.221              | 1996 June.<br><br>Includes correspondence <i>re</i> Royal Society biographical memoir of W.L. Francis. |
| G.222              | 1996 July.   |
| G.223              | 1996 July-September.   |
| G.224              | 1996 October.  |

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- G.225 1996 October.
- G.226 1996 October-December.
- G.227 1996 November.
- G.228 1996 December.  
Includes correspondence *re* views of Flowers on personal firearm ownership.
- G.229-G.242 1996 December-1997 December.**
- G.229 1996 December, 1997 January.  
Includes correspondence relating to Nirex.
- G.230 1997 January, February.
- G.231 1997 February.  
Includes correspondence *re* Nirex and the 'leak' of an internal document.
- G.232 1997 February.
- G.233 1997 March.  
Includes correspondence *re* planning application by Nirex for a rock characterisation facility near Sellafield, Cumbria.
- G.234 1997 April-June.  
There is some correspondence from June 1997.  
Includes correspondence with the Marchioness of Anglesey *re* the Chernobyl accident and Nirex; and correspondence *re* biographical memoir of G. Gee.

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| G.236 | 1997 June.  |
| G.237 | 1997 June, July.  |
| G.238 | 1997 July.  |
| G.239 | 1997 August.  |
| G.240 | 1997 September-November.<br>Includes correspondence <i>re</i> views of Flowers on the Dearing Report. |
| G.241 | 1997 December.  |
| G.242 | 1997 December.  |

**Correspondence**

**G.243-G.437**

**DAY FILES**

**1990-1996**

The material consists of copies of outgoing correspondence produced by Flowers from his home address and maintained in a chronological order. The majority were typed on a word processor although there are also photocopies of his handwritten correspondence.

The subject matter is broad, covering a wide range of professional issues and more personal matters relating to his colleagues, friends and family.

**G.243-G.256**

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G.243	1990 August (1).
G.244	1990 August (2).
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- G.375 1994 May (1).
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**G.438 CORRESPONDENCE WITH J.W. BRAY MP**

**1966**

G.438 'Correspondence with Dr. J. Bray'. Contents of folder so inscribed. 1966.

J.W. Bray MP was Chairman of the Labour Party Science and Technology Group from 1964 to 1966 and Parliamentary Secretary in the Ministry of Power from 1966 to 1967.

Correspondence etc. *re* Report on Computers for Research and proposals for a National Data Processing Service; and correspondence *re* arrangements for meeting *re* provision for research in on-line computer process control. February-May 1966.

**Correspondence**

**G.439-G.469                      CORRESPONDENCE WITH LORD ROTHSCHILD                      1972-1986**

'Rothschild correspondence'. Contents of folder so inscribed: professional correspondence between Flowers and Lord Rothschild (Nathaniel Mayer Victor Rothschild, 3rd Baron).

Lord Rothschild frequently wrote to Flowers to seek advice on specific issues relating to nuclear and solar energy, scientific research in general and personal research interests.

During the period covered by the correspondence Lord Rothschild held the positions of Director General and First Permanent Under-Secretary of the Central Policy Review Staff in the Cabinet Office (1971-1974), Chairman of N.M. Rothschild & Sons (1975-1976) and Chairman of Rothschild's Continuation Ltd (1976-1988).

G.439                      1972 January-July.

Correspondence *re* '45 different varieties of R & D' by Lord Rothschild; correspondence *re* Lighthill Report on Artificial Intelligence.

G.440                      1972 August.

Correspondence *re* '45 different varieties of R & D' by Lord Rothschild including 11pp typescript draft.

G.441                      1972 September, October.

Correspondence *re* Science Research Council Report, 1971-1972; etc.

G.442                      1973 March-September.

Correspondence *re* report on the future of solar energy in the United Kingdom including 5pp typescript; correspondence *re* satellite power stations; etc.

G.443                      1973 April.

Correspondence *re* proposed successors to Flowers as Chairman of the Science Research Council.

G.444                      1973 March, November.

Correspondence *re* taxation of travel and subsistence allowances of Board and Committee members of the Science Research Council.

### Correspondence

- G.445                    1973 November, December.  
  
Correspondence *re* radioactive waste; correspondence *re* taxation of travel and subsistence allowances of Board and Committee members of the Science Research Council; etc.
- G.446                    1974 January-July.  
  
1p typescript proposals for an Advisory Council on Energy; correspondence *re* draft papers on radioactive waste sent to Flowers by Lord Rothschild; etc.
- G.447                    1974 September –1975 January.  
  
Refereeing.
- G.448                    1975 January.  
  
Correspondence *re* Central Policy Review Staff.
- G.449-G.451            1975 September, October.  
  
Correspondence and papers *re* a study of Klinokinesis by Lord Rothschild.  
  
Rothschild wrote to Flowers asking him to suggest a mathematician who could aid him with his study.  
  
3 folders.
- G.452                    1975 October –1976 April.  
  
Correspondence *re* arrangements for meeting with Lord Rothschild and S. Ramo; etc.
- G.453                    1976 June.  
  
Refereeing.

### Correspondence

- G.454 1976 June-August.  
Correspondence *re* Lord Rothschild's decision to resign as Chairman of N.M. Rothschild & Sons and to assume the Chairmanship of Rothschild's Continuation Ltd; Correspondence *re* *Nuclear Power and the Environment* Sixth Report of the Royal Commission on Environmental Pollution (HMSO 1976).
- G.455 1976 August, September.  
Correspondence etc *re* address by Sir Sam Edwards to the Parliamentary and Scientific Committee, *re* consequences and implications of the Rothschild Report.
- G.456 1976 October –1977 February.  
Correspondence *re* article *re* peaceful uses for plutonium; correspondence *re* published lecture by M. Benedict 'The case for nuclear power'; etc.
- G.457 1977 March-May.  
Correspondence *re* Commercial Fast Reactor I at Windscale and French developed nuclear fuels; etc.
- G.458 1978 February.  
Correspondence *re* water evaporation; correspondence *re* lecture by W. Marshall *re* plutonium given at Glasgow.
- G.459 1978 March.  
Correspondence *re* Lecture being prepared by Lord Rothschild *re* plutonium and nuclear energy.
- G.460 1978 June, July.  
Correspondence *re* data given in Table 8 of *Nuclear Power and the Environment* Sixth Report of the Royal Commission on Environmental Pollution (HMSO 1976).

### Correspondence

- G.461 1978 June, July.  
Correspondence *re* arrangements for Lord Rothschild's Dinner, London, 19 July 1978 including 12pp typescript of speech by Lord Rothschild.
- G.462 1978 September.  
Correspondence *re* operational research aspects of combine harvester problem posed by Lord Rothschild.
- G.463 1978 October, November.  
Correspondence *re* 'Risk' by Lord Rothschild, the 1978 Richard Dimbleby Lecture; etc.
- G.464 1979 May, June.  
Recommendation.
- G.465 1980 January-November.  
Correspondence *re* arrangements for meeting; correspondence *re* safety aspects of Canadian Deuterium Uranium Reactors (CANDU Reactors).
- G.466 1981 March.  
Correspondence *re* proposal by Y. Ne'eman for a United Kingdom/Israeli Astronomical Observatory in Israel.
- G.467 1981 March–1982 February.  
Correspondence *re* Funding for St Cross College, Oxford; correspondence *re* Cartesian co-ordinates problem posed by Lord Rothschild; correspondence *re* definition of 'research'; correspondence *re* views of A. Ailberston on Social Science Research Council.
- G.468 1984 February–1985 October.  
Correspondence *re* queries from Lord Rothschild *re* gold and impurities in it, Dirac and the prediction of the existence of anti-matter; correspondence *re* request from Lord Rothschild to meet with a Number Theory specialist with whom he can discuss Primes.

**Correspondence**

G.469 1986 October, November.

Correspondence *re* proposal by M. Boxer of the Tatler Publishing Company Ltd for a feature on objects and people lost to Britain, including the brain drain issue; etc.

**G.470-G.529**

**REFERENCES AND RECOMMENDATIONS**

**1959-1978**

The material consists of references and recommendations by Flowers for persons proposed for honours and awards or for persons seeking appointments and grant aid.

G.470-G.528 'Confidential reports outside Dept.'. Contents of folder so inscribed. 1959-1967.

G.470 1959 January.

G.471 1959 May.

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G.476 1961 January, February.

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- G.494 1964 June-September.
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Catalogue of the papers and correspondence of

**Brian Hilton Flowers FRS,  
Baron Flowers of Queen's Gate in the  
City of Westminster**

(b. 1924)

**VOLUME III**

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by Adrian Nardone and Alan Hayward  
NCUACS catalogue no. 76/5/98

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