

THE ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Report on the correspondence and papers of

CHRISTOPHER HINTON,

BARON HINTON OF BANKSIDE

(1901-1983)

engineer

Vol I

deposited in the

Institution of Mechanical Engineers

Reproduced for the Contemporary Scientific Archives Centre

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CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE

under the guidance of the Royal Society's

British National Committee for the History of Science, Medicine and Technology

Catalogue of the papers and correspondence of

CHRISTOPHER HINTON OM, KBE, FRS, FEng

BARON HINTON OF BANKSIDE

(1901 - 1983)

Compiled by:

Jeannine Alton

Peter Harper

Margaret Erskine

VOLUME I

List of contents

General Introduction

Sections A - E

Deposited at The Institution of Mechanical Engineers, London

1986

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LIST OF CONTENTS

| | | <u>Items</u> | <u>Page</u> |
|----------------------|--|--------------|-------------|
| GENERAL INTRODUCTION | | | 7 |
| SECTION A | BIOGRAPHICAL AND AUTO- BIOGRAPHICAL | A.1-A.231 | 13 |
| A.1 -A.12 | Autobiographical writings | | 14 |
| A.13 -A.117 | Diaries | | 17 |
| A.118-A.133 | Biographical articles and material | | 21 |
| A.134-A.221 | Career and honours | | 24 |
| A.222-A.226A | Family and personal correspondence | | 34 |
| A.227-A.231 | Miscellaneous | | 35 |
| SECTION B | ENERGY | B.1-B.144 | 36 |
| B.1 -B.58 | Lectures | | 36 |
| B.59 -B.141 | General correspondence and papers | | 43 |
| B.142-B.144 | Background material | | 52 |
| SECTION C | ENGINEERING | C.1-C.266 | 53 |
| C.1 -C.6 | American Society of Mechanical Engineers | | 54 |
| C.7 | British Association Co-ordinating Group | | 54 |
| C.8 -C.75 | Council of Engineering Institutions (CEI) With an introductory note | | 54 |
| C.76 -C.248 | Fellowship of Engineering With an introductory note | | 62 |
| C.249 | Institution of Civil Engineers | | 71 |
| C.250 | Institution of Electrical Engineers | | 71 |

Continued

| | <u>Items</u> | <u>Page</u> |
|---------------------------|--|-------------|
| C.251-C.260 | Institution of Mechanical Engineers | 71 |
| C.261-C.264 | National Academy of Engineering | 72 |
| C.265, C.266 | National Academy of Engineering (Mexico) | 73 |
| SECTION D | HOUSE OF LORDS | D.1-D.176 |
| | | 74 |
| Introduction to Section D | | 74 |
| D.1 -D.20 | General correspondence | 76 |
| D.21 -D.107 | European Communities Committee (Sub-committee F) | 78 |
| D.108-D.127 | European Communities Committee (Sub-committee G) | 86 |
| D.128-D.142 | Select Committees (Private Bills) | 88 |
| D.143-D.172 | Speeches in debates | 89 |
| D.173-D.176 | Printed and duplicated material | 92 |
| SECTION E | UNIVERSITY OF BATH | E.1-E.65 |
| | | 93 |
| Introduction to Section E | | 93 |
| E.1 -E.7 | General correspondence | 95 |
| E.8 -E.10 | Development appeal | 95 |
| E.11-E.14 | Appointments | 96 |
| E.15 | Convocation | 96 |
| E.16 | University Court | 96 |
| E.17-E.19 | Degree Congregations | 97 |
| E.20-E.65 | Speeches, addresses, writings | 97 |

| | | <u>Items</u> | <u>Page</u> |
|-------------|---|--------------|-------------|
| SECTION F | LECTURES AND PUBLICATIONS | F.1-F.228 | 102 |
| F.1 -F.109 | Speeches and lectures With an introductory note | | 102 |
| F.110-F.113 | Radio and television | | 107 |
| F.114-F.141 | Articles With an introductory note | | 118 |
| F.142-F.198 | Books | | 122 |
| F.199-F.207 | Book reviews | | 129 |
| F.208-F.212 | Letters to the press | | 130 |
| F.213-F.228 | Correspondence with publishers and editors | | 131 |
| SECTION G | CONSULTANCIES | G.1-G.83 | 134 |
| G.1 | Electricity Council | | 134 |
| G.2-G.8 | Ministry of Transport With an introductory note | | 135 |
| G.9-G.83 | World Bank (International Bank for Reconstruction and Development) | | 136 |
| SECTION H | SOCIETIES AND ORGANISATIONS | H.1-H.161 | 143 |
| H.1, H.2 | Cambridge University Engineers' Association | | 144 |
| H.3 | City University | | 144 |
| H.4 | Dulwich Society | | 144 |
| H.5 | Economic Research Council | | 144 |
| H.6-H.8 | European Academy of Arts, Sciences and Humanities | | 145 |
| H.9 | European Nuclear Society | | 145 |

Continued

| | | <u>Items</u> | <u>Page</u> |
|---|--|--------------|-------------|
| H.10-H.12 | Opportunities for the Disabled | | 145 |
| H.13-H.16 | Österreichischer Gewerbeverein | | 145 |
| H.17 | Royal Institution | | 146 |
| H.18-H.41 | Royal Society | | 146 |
| H.42-H.161 | World Energy Conference With an introductory note | | 148 |
| SECTION J | CORRESPONDENCE | J.1-J.84 | 163 |
| | Introduction to Section J | | 163 |
| J.1 -J.69 | Correspondence with individuals and organisations | | 164 |
| J.70-J.72 | Shorter unindexed correspondence | | 170 |
| J.73-J.79 | References, appointments, recommendations | | 170 |
| J.80-J.84 | Daily carbons | | 171 |
| SECTION K | NON-PRINT MATERIAL | K.1-K.36 | 172 |
| K.1 -K.18 | Photograph albums | | 172 |
| K.19-K.29 | Loose photographs | | 174 |
| K.30-K.34 | Slides | | 175 |
| K.35 | Film | | 176 |
| K.36 | Gramophone records | | 176 |
| INDEX OF INDIVIDUALS, ORGANISATIONS AND FIRMS | | | 177 |

GENERAL INTRODUCTION

The collection was received via The Institution of Mechanical Engineers in September and October 1984 and December 1985.

It represents Hinton's selection of the material in his possession. The many requests he received for information on the historical events he had witnessed, notably perhaps the contacts with M.M. Gowing during the preparation of her history of the British atomic energy project and the consequent writing of his own memoirs, had encouraged an interest in history. His service on the Royal Society's Sub-committee on Contemporary Scientific Archives had contributed to his sense of the problems involved in evaluating and sorting the extensive accumulation of paper amassed by distinguished public figures. Accordingly he and his long-time secretary, Phyllis Ellis, conducted regular pruning exercises on his papers. Many of the folders in which the material was received bore dates 'Examined by Lord Hinton', some as early as 1972 but mainly between February 1979 and April 1982; thus, while some material may be missing, what remains is what he deemed of interest. Another feature is his bringing together of documents on a particular topic, with his own title and comments (for example, the grouping of lectures on atomic energy and electricity supply) and his frequent and outspoken manuscript comments on letters, articles or other documents which he received. Attention is drawn to these features in the relevant catalogue entries.

OUTLINE OF THE CAREER OF LORD HINTON OF BANKSIDE

Lord Hinton was born at Tisbury, Wiltshire, in 1901. The son of a schoolmaster, he became at 16 an engineering apprentice with the Great Western Railway at Swindon. He regarded the six years he spent there, first on the shop floor and then in the drawing office, as the foundation of his subsequent success in engineering. At 22 he was awarded the William Henry Allen scholarship by the Institution of Mechanical Engineers which sent him to Trinity College, Cambridge. He took a first class degree in the Mechanical Sciences Tripos in two years, spending the final year on research under Sir Charles Inglis on vibration of railway bridges.

Hinton's first post on leaving Cambridge was on the staff of Brunner Mond & Company (later part of ICI) where he became Chief Engineer at the remarkable age of 29. In 1940 he was seconded to the Ministry of Supply becoming, in 1942, Deputy Director General in charge of the Royal Filling Factories. At the end of the war he was asked to take charge of the production organisation of the newly-formed Department of Atomic Energy and when the United Kingdom Atomic Energy Authority (UKAEA) was set up in 1954 he became a Member of the Board and Managing Director of the Industrial Group. In the ten years 1946-1956 his organisation was responsible for designing and building the factory at Springfields for extracting uranium from ore, purifying it and making it into fuel elements for the nuclear reactors, for building Windscale with its production piles and its immensely complex chemical plants, the diffusion plant at Capenhurst, the first industrial nuclear plant at Calder Hall and the fast breeder reactor with its ancillary fuel element and chemical plants at Dounreay. In 1957 Hinton became the first chairman of the newly-created Central Electricity Generating Board (CEGB) - a position he held until his retirement from full-time salaried employment in 1964. One of Hinton's interests during his chairmanship was the development of the Board's research organisation; this interest continued into retirement, and indeed up to his death in 1983, in his capacity as Deputy Chairman of the Electricity Supply Research Council. Hinton's chairmanship of the CEGB was also marked by his great sensitivity to the problems of visual amenity which the Board's programme of generation and transmission construction work necessarily involved.

Although Hinton (in the last chapter of his unpublished autobiography) describes his immediate post-retirement activities as those of an 'odd job man' he nevertheless continued to make many important contributions to the public service. In 1965 he worked for six months in the Ministry of Transport and afterwards became a Special Adviser to the World Bank. He served as Chairman of the International Executive Committee of the World Energy Conference (WEC) 1962-1968 retaining an interest in its affairs for the rest of his life. He was an active member of the House of Lords having been made a life peer in 1965. He was a highly successful first Chancellor of the University of Bath 1966-1980. In particular, the years of retirement enabled Hinton to involve himself with the activities and organisation of the engineering

profession. He was President of the Institution of Mechanical Engineers 1966-1967, Chairman of the MacRobert Award Evaluation Panel from the award's inception in 1969 to March 1977, President of the Council of Engineering Institutions (CEI) from 1976 and from 1976 to 1981 first President of the Fellowship of Engineering which he did so much to establish.

DESCRIPTION OF THE COLLECTION

The collection is a substantial one. Although it cannot be said to present a full account of Hinton's life and work, being largely concerned with his later activities, it contains important documentation of his earlier career in the form of personal diaries, unpublished autobiographical writings, frequent allusions and reminiscences in correspondence with former colleagues, historians of science and others, not to mention his own comments and assessments written on folders or manuscripts.

The papers are presented in the order shown in the List of Contents. Additional explanatory notes accompany many of the Sections, sub-sections and individual entries in the body of the catalogue. The following paragraphs aim only at drawing attention to matters of particular substance or interest.

Section A (Biographical and autobiographical). In terms of historical interest this section is dominated by Hinton's unpublished autobiography and the 'non-secret' diaries on which it was based. The autobiography entitled 'The Memoirs of Christopher Hinton' (A.1-A.8) covers the period from its author's birth to the time of writing (1970) in 29 chapters and was supplemented by a 'Memorandum of Activities from 1970 to 1980' (A.9) written in 1981 at the request of M.M. Gowing. The autobiography has been drawn upon in compiling catalogue entries and reference has been made to it in the form 'Memoirs p. ...'. Hinton's personal diaries survive for the period 1941-1983; it is clear from the autobiography that he kept a diary from 1916-1923 but early diary entries survive only in abstracted form (A.13). Much of the remaining material in this section documents (albeit scantily) the events of his career, notably his successive moves to Swindon, Cambridge, ICI, Ministry of Supply, UKAEA and CEGB, and honours received, especially the knighthood, life peerage and Order of Merit.

Section B (Energy). This section brings together lectures (selected and arranged by Hinton) on atomic energy and electricity supply and general correspondence and papers on the same topics. The atomic energy lectures include a number of items of particular interest, for example Hinton's notes for the Risley induction lecture (B.2) which formed the basis of the BBC radio series 'The ABC of Atomic Energy' and the talk on safety to the people of Thurso in respect of the first Dounreay fast breeder reactor (B.7). The section also includes the contents of Hinton's nuclear power files 'excluding AEA papers and BNFL', material for Hinton's two investigations of the Prototype Fast Breeder Reactor at Dounreay undertaken at the request of the Central Policy Review Staff in the mid-1970s and for his last work for the Electricity Supply Research Council, unfinished at his death in 1983, also on Fast Reactors.

Section C (Engineering). This section documents Hinton's association with the various engineering institutions and organisations. Of special importance are papers relating to the Council of Engineering Institutions, 1967-1983, and the Fellowship of Engineering, 1975-1983. The CEI papers include the period of Hinton's Presidency and his work for the MacRobert Award which was administered by the CEI during Hinton's chairmanship of the evaluation panel. The Fellowship of Engineering papers record almost all aspects of its early years except the selection of fellows. Hinton's papers relating to the Finnieston Committee of Enquiry into the Engineering Profession are presented in a separate subsection under the general heading Fellowship of Engineering.

Section D (House of Lords). This section brings together correspondence and papers relating to Hinton's House of Lords committee work, especially the European Communities Committee and his contributions to debates, principally on energy and engineering questions.

Section E (University of Bath). Although this is the smallest section in the catalogue, the surviving material documents well Hinton's contributions to the life of the university as its first Chancellor, including his work for the development appeal 1966-1968 and his addresses at degree congregations and other university occasions.

Section F (Lectures and publications). This section brings together notes, drafts and correspondence for the very numerous lectures and articles by Hinton covering a period of over 30 years. It includes some work for radio and television and Hinton's books on Engineers and engineering (1970) and Heavy current electricity (1979) and his contribution on atomic power to the Clarendon Press's History of Technology (1978).

Section G (Consultancies). Documentation for three consultancies undertaken by Hinton in retirement is presented here: the very slight material with the collection in respect of the Electricity Council, the more substantial record of the 1965 Ministry of Transport investigation and the especially full documentation of Hinton's work for the World Bank. This involved visits to Taiwan, Turkey, Brazil, East Africa and West Pakistan to assess projects and make recommendations. It was during a visit to East Africa that Hinton sustained an injury to his spine which left it permanently damaged.

Section H (Societies and organisations). This section brings together material relating principally to non-engineering organisations with which Hinton was associated. While some entries are relatively trivial, there are extensive sequences of material for the Royal Society and the World Energy Conference.

Section J (Correspondence). This section is relatively slight since most of Hinton's correspondence on his many and varied activities was kept with the related material and has been left in place in the appropriate sections of the catalogue. Of interest however are the daily carbons, 1978-July 1983, which record Hinton's total activity over a given period and at the very end of his career.

Section K (Non-print material). This section assembles a photographic record of Hinton's official career from the early 1950s. A photograph of Hinton as a GWR apprentice is the only one of him in the collection as a young man. The section also includes a 1956 film entitled 'Christopher Hinton' and gramophone records of Hinton's 'ABC of atomic energy' series for BBC radio.

LOCATIONS OF OTHER MATERIAL

This collection of Lord Hinton's papers comprises those in his possession at the time of his death. However, the records of his extremely important work for ICI, Ministry of Supply, UKAEA and CEGB were contained primarily in their own files and this catalogue cannot provide detailed guidance on these holdings. Information about the archives of ICI and CEGB should be sought from those bodies; Ministry of Supply and UKAEA papers are covered by the Public Records Act and will at the appropriate time be available in the Public Record Office at Kew (UKAEA papers under the reference AB). This is also the case with the papers of the Production Group of the Authority which later became British Nuclear Fuels. Booklets giving the references to material used in M.M. Gowing's two volumes of Independence and Deterrence, the history of the UK atomic energy project in the period 1945-1952, are available on request from the Historian's Office, UKAEA, 11 Charles II Street, London SW1.

A little material was deposited by Hinton during his lifetime at Churchill Archives Centre, Churchill College, Cambridge.

ACKNOWLEDGEMENTS

We are grateful to Mr. E.P. Davies of the Institution of Mechanical Engineers for help in assembling the material, to Professor M.M. Gowing and Mrs. A.V. Martin for information, and to Lady Phillips for assistance in the early stages of sorting and listing.

Oxford 1986

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SECTION A BIOGRAPHICAL AND AUTOBIOGRAPHICAL A.1 - A.231

A.1 -A.12 AUTOBIOGRAPHICAL WRITINGS

A.13 -A.117 DIARIES

A.118-A.133 BIOGRAPHICAL ARTICLES AND MATERIAL

A.134-A.221 CAREER AND HONOURS

A.222-A.226A FAMILY AND PERSONAL CORRESPONDENCE

A.227-A.231 MISCELLANEOUS

Biographical and autobiographical

AUTOBIOGRAPHICAL WRITINGS

A.1-A.8 'The Memoirs of Christopher Hinton'

In the 'Foreword' Hinton explains that the memoirs were written in 1970 and describes them as 'my personal memories of the problems and difficulties which we faced in the early years of atomic energy'. Disclaiming any intention to write history, he says: 'What I have done is to write an account of the impact of events on myself as this is recorded in my non-secret diaries and in my memory'. In fact, the memoirs range over the whole of Hinton's life, from birth to the time of writing, in twenty-nine chapters.

The work is a carbon copy, 496 pp., with a few ms. corrections by Hinton, and appendices in the form of documents of special importance (see A.2, A.3, A.4, A.7).

A.1 Foreword (i, ii)

Chapter I Childhood days, pp.1-10.

Chapter II Learning Engineering on the Shop-floor, pp.11-23.

Chapter III Learning the Theory of Engineering, pp.24-33.

Chapter IV (wrongly typed as VI) Mainly family affairs, pp.34-42.

Chapter V Years of Development, pp.42-52.

Chapter VI The Chief Engineer, pp.53-67.

A.2 Chapter VII War work, pp. 68-83, and Appendix:
Hinton's report on 'The construction of Bishopton and Wrexham Royal Ordnance Factories', 7 September 1940.

Chapter VIII The Filling Factories - The build up of the Organisation, pp.84-100, and Appendix:
'The Royal Filling Factories', Hinton's ms. notes, charts and diagrams referred to on p.96 (pp.1-6, 10, 17-19, 22 only).

Chapter IX The Filling Factories - Factory Problems and Personal Difficulties, pp.101-117.

Biographical and autobiographical

Chapter X Filling Factories - The End, pp.118-129, with Appendix:
Hinton's 'Scheme for the progressive reduction of strength of the Royal
Ordnance Filling Factories', 22 September 1944, referred to on p.118.

A.3 Chapter XI The Risley Organisation, pp.130-140.

Chapter XII The fuel element factory at Springfields, pp.140-156.
There is a footnote on p.140 beginning: 'Throughout this and the following
chapters it should be remembered that I retained no atomic energy papers
when I left Risley in 1957 and that I have not had access to them since.
I rely on my memory, which is fallible, and on my diaries which, because
they were kept as open records, are cryptic'.

Chapter XIII B.E.P.O. and the Windscale Piles, pp.157-185.

Included in the folder is a photocopy of Hinton's lecture 'The manufacture
of uranium metal from ore' given to Institution of Chemical Engineers,
Manchester, January 1955.

A.4 Chapter XIV The Diffusion Plant, pp.186-205.

Chapter XV The Windscale Chemical Plants, pp.206-228.

Chapter XVI The Reasons Why, pp.229-256.

Included in the folder is a reprint of Hinton's Castner Memorial Lecture
'The chemical separation processes at Windscale Works', February 1956,
referred to on p.206.

A.5 Chapter XVII The Fast Breeder Reactor, pp.257-274.

Chapter XVIII Calder Hall, pp.275-292.

Chapter XIX The First Phase of the Industrial Programme, pp.295-313.

A.6 Chapter XX The Atomic Energy Authority is Formed, pp.314-328.

Chapter XXI Troublesome Years, pp.329-341.

Continued

Biographical and autobiographical

- Chapter XXII The Japanese Interlude, pp.342-350.
- Chapter XXIII Decline and Fall, pp.351-371.
- A.7 Chapter XXIV The Nuclear Programme - the events of 1957,
pp.372-389.
- Chapter XXV The Nuclear Programme - Second Phase, pp.390-
419, with Appendix:
'1960 Review of the nuclear power programme', 14 March 1960, with a
ms. note 'Written and submitted to the Minister of Power by Sir Christopher
Hinton'.
- Chapter XXVI The Nuclear Programme - the Third Phase, pp.420-438.
- A.8 Chapter XXVII The Sad Failure, pp.439-467.
- Chapter XXVIII Exit, pp.468-484.
- Chapter XXIX The Odd Job Man, pp.485-496.
- A.9 'Memorandum of Activities from 1970 to 1980'
13pp. typescript (2 copies), June 1981, prepared at the request of
M.M. Gowing, with forwarding letter, and a later ms. note.
In the opening paragraph Hinton explains why 'the present notes' were
written and that 'I should not wish them to be used as an additional
chapter of my Memoirs because they lack continuity'.
- A.10-A.12 Shorter autobiographical writings.
- A.10 'Script for recording and film made for I.E.E. records', August 1972.
Uncorrected typescript, and version with ms. corrections and additions.
See also C.250.
- A.11 'Autobiographical sketch' for McGraw-Hill Modern Scientists and Engineers,
1978 (update of 1966 version).
- A.12 2pp. autobiographical outline, February 1981.

Biographical and autobiographical

DIARIES

In his memoirs Hinton writes (p.28) 'On the day when I was awarded the William Henry Allen Grant my diary, which I had kept since 1916, stops and it was not until the middle of the Second World War that I started keeping one again. As a result the events between 1923 and 1943 are not supported by notes which I made at the time'. The surviving diaries in fact date from 1941 (A.27) and the early diary entries survive in abstracted form at A.13.

The material at A.13-A.26 was received as 'Notes from diaries (useful for locating events)' and was used by Hinton in compiling his memoirs and autobiographical writings.

A.13-A.26 Notes from diaries

With the exception of A.13, these are ms. foolscap notes, with dates or titles, usually paginated. In chronological order.

- A.13 'Notes from diary 1918-23'. Small red notebook of brief entries, 1 January 1918-25 May 1923.
- A.14 'Notes for Chapt. 4', 1918-36.
- A.15 'Whittaker's Almanacks'. Miscellaneous notes on events 1919-25.
- A.16 1941 (2 pp.), 1942 (1 p.), 1943 (3 pp.), 1944 (3 pp.).
- A.17 1945 (3 pp.), 'Springfields' 1946-52 (3 pp.), 'Chemical Separation' 1947-52 (3 pp.).
- A.18 'General organisation' 1946-52 (11 pp.).
- A.19 'Diffusion' 1946-55 (4 pp.), 'Piles' 1946-51 (5 pp.), 'Calder Hall' 1947-56 (4 pp.).
- A.20 'General (Second stage)' 1949-60 (15 pp.).
- A.21 'Dounreay (Fast reactor)' 1950-57 (3 pp.), 'Generating Board' 1952-64 (15 pp.).
- A.22 'Industrial Programme' 1953-64 (11 pp.).

Biographical and autobiographical

- A.23 'Research' 1957-64 (1 p.), 'Personnel' 1957-64 (3 pp.), 'Fuel' 1958-64 (1 p.), '1958-65' (4 pp.).
- A.24 'General' 1958-64 (3 pp.), 'Amenity' 1960-64 (3 pp.), 'Outside Activities' 1960-64 (1 p.).
- A.25 'Abstracts bearing on all relationships with the Atomic Energy Authority in years 1960/64 ...'.
39 pp. typescript dated 1 March 1982.
- A.26 Page from December 1961 diary with underscorings (on Wylfa), 1966-67 (2 pp.), 'Pocket diary notes' 1967-80 (6 pp.), 'Topics 1970-80' (pp. a-d).

A.27-A.69 Personal diaries 1941-83

These are the narrative journals kept by Hinton. There are occasional later notes on the flyleaf of dates of special interest to him, and marginal scorings in the entries.

| | | | |
|------|------|------|------|
| A.27 | 1941 | A.32 | 1946 |
| A.28 | 1942 | A.33 | 1947 |
| A.29 | 1943 | A.34 | 1948 |
| A.30 | 1944 | A.35 | 1949 |
| A.31 | 1945 | A.36 | 1950 |
| A.37 | 1951 | A.42 | 1956 |
| A.38 | 1952 | A.43 | 1957 |
| A.39 | 1953 | A.44 | 1958 |
| A.40 | 1954 | A.45 | 1959 |
| A.41 | 1955 | A.46 | 1960 |

Biographical and autobiographical

| | | | |
|------|------|------|------|
| A.47 | 1961 | A.52 | 1966 |
| A.48 | 1962 | A.53 | 1967 |
| A.49 | 1963 | A.54 | 1968 |
| A.50 | 1964 | A.55 | 1969 |
| A.51 | 1965 | A.56 | 1970 |
| | | | |
| A.57 | 1971 | A.62 | 1976 |
| A.58 | 1972 | A.63 | 1977 |
| A.59 | 1973 | A.64 | 1978 |
| A.60 | 1974 | A.65 | 1979 |
| A.61 | 1975 | A.66 | 1980 |
| | | | |
| A.67 | 1981 | A.69 | 1983 |
| A.68 | 1982 | | |

A.70-A.93 Small format pocket diaries 1959-82

Entries mainly by Hinton, but some in the hand of Mrs. Ellis.

| | | | |
|------|------|------|------|
| A.70 | 1959 | A.76 | 1965 |
| A.71 | 1960 | A.77 | 1966 |
| A.72 | 1961 | A.78 | 1967 |
| A.73 | 1962 | A.79 | 1968 |
| A.74 | 1963 | A.80 | 1969 |
| A.75 | 1964 | A.81 | 1970 |

Biographical and autobiographical

| | | | |
|------|------|------|------|
| A.82 | 1971 | A.87 | 1976 |
| A.83 | 1972 | A.88 | 1977 |
| A.84 | 1973 | A.89 | 1978 |
| A.85 | 1974 | A.90 | 1979 |
| A.86 | 1975 | A.91 | 1980 |
| A.92 | 1981 | | |
| A.93 | 1982 | | |

A.94-A.117 Appointments diaries 1968-83

Most of these are large format desk diaries kept by Mrs. Ellis. Some are kept in duplicate.

| | | | |
|-------|----------|-------|----------|
| A.94 | 1968 | A.96 | 1970 |
| A.95 | 1969 | | |
| A.97 | 1971 | A.104 | 1976 (1) |
| A.98 | 1972 | A.105 | 1976 (2) |
| A.99 | 1973 (1) | A.106 | 1977 |
| A.100 | 1973 (2) | A.107 | 1978 |
| A.101 | 1974 (1) | A.108 | 1979 (1) |
| A.102 | 1974 (2) | A.109 | 1979 (2) |
| A.103 | 1975 | A.110 | 1980 (1) |
| | | A.111 | 1980 (2) |

Biographical and autobiographical

| | | | |
|-------|----------|-------|----------|
| A.112 | 1981 (1) | A.115 | 1982 (2) |
| A.113 | 1981 (2) | A.116 | 1983 (1) |
| A.114 | 1982 (1) | A.117 | 1983 (2) |

BIOGRAPHICAL ARTICLES AND MATERIAL

A.118-A.125 Biographical notes prepared for miscellaneous gazeteers and biographical dictionaries.

- A.118 1971 Included here are notes by Mrs. Ellis of Hinton's Honorary Doctorates (1955-66) and of 'Publications in which Lord Hinton's biography appears'.
- A.119 1972-78 Correspondence with Edizioni Scientifiche e Tecniche Mondadori re Hinton's entry in various editions of Modern Men of Science and suggestions for others to be included.
- A.120 1973-76
- A.121 1978-80
- A.122 1981
- A.123 1982 re article on Hinton by M. M. Gowing in Dictionary of Business Biography. Includes correspondence, draft of article with ms. revisions by Hinton, copy of article as published.
- A.124 1982
- A.125 1983

Biographical and autobiographical

- A.126 'Reflections on Britain's nuclear history: a conversation with Lord Hinton'.

Transcription of interview with Hinton conducted 19 January 1983 by D. Lowry of the Energy Research Group, Open University. Includes photocopies of miscellaneous obituaries of Hinton, and brief correspondence.

- A.127 Requests for historical information made by or to Hinton:

1972-73 J. Chadwick (early ideas on atomic energy)

1974 L. Hannah (electricity industry)

1976 A. Albu (professional engineering education)

1977 M. Holly (fast breeder reactor)

1978 M. Wright (Lord Holford)

1983 F. Maynard (nuclear policy)

1983 A. Jones (atomic energy programme)

1983 Dictionary of National Biography

- A.128 Press-cuttings (some photocopies)

- A.129-A.133 Standardisation of stores

It is clear from his Memoirs that Hinton attached great importance to this matter as a key to rationalisation and efficiency. His first experience was at ICI in the 1930s of which he writes (pp.64-66): 'One of the most interesting jobs that I did in those years was the standardisation of stores for the whole of ICI'. He drew on this experience for the Filling Factories during the Second World War (p.96): 'We borrowed one of the Standards Engineers from ICI and standardised all the small rods, gauges and general stores just as had been done in ICI before the war', and later at Risley (p.251): 'Our general and engineering stores were all standardised and we had stores and drawing office standards

Continued

Biographical and autobiographical

books; ... we had a universal stores code which was used at all the factories and the condition of the stores at all of them was excellent'.

- A.129 Filling Factory General Standards Code Book 1944.
- A.130 Department of Atomic Energy General Stores Code Book.
- A.131 Department of Atomic Energy Standard Accounting Instructions.
- A.132 Department of Atomic Energy Risley Standard Instructions.
- A.133 'A.E.A. Cost Code.'

Biographical and autobiographical

CAREER AND HONOURS

Many of these documents have later comments and reflections added by Hinton.

Early schooling

- A.134 Ivy Lane Council School, Chippenham, Report.
County Secondary School, Chippenham, Report Book 1913-17.
Certificate of award of County Junior Scholarship 1915.
- A.135 Education Certificates 1913, 1914, 1916.

Great Western Railway, Swindon

After a brief period as apprentice at Andrew Barclay & Co., Kilmarnock, Hinton enrolled as a Premium Apprentice in October 1917. He remained at the works until he went to Cambridge in 1923.

- A.136 Arrangements with Hinton's father for apprenticeship and payment of premium 1917-19.
- A.137 Rule Book, signed by Hinton 17 October 1917 and with later annotations by him (Memoirs, pp.14-15).
- A.138 Testimonials for Hinton, itemising his training and service with the Company, written when he was 'desirous of taking a College Course', 1923.
- A.139 Hinton's ms. timetable for his studies at Swindon Technical Institution, and National Certificate from Institution of Mechanical Engineers, 1922 (Memoirs, pp.24-25).
- A.140 Letter from fellow apprentice at Swindon, 1966.

Biographical and autobiographical

A.141, A.142 Later correspondence re engine 7318, which Hinton helped to build at Swindon (Memoirs, p.20) and other matters relating to Swindon works.

A.141 1961, 1969, 1971, 1982

A.142 1983. On sculpture bust of Hinton and use of '7318' as motif; includes recollections.

W.H. Allen Scholarship and Trinity College, Cambridge

A.143 Award of Scholarship, value £1,000, granted via Institution of Mechanical Engineers. Includes Hinton's telegram home ('Got it. Cheerio Chris'), letter from W.H. Allen, etc. 1923.

A.144 First Class degree, Cambridge. Press-cutting, letters of congratulation from W.H. Allen and Institution of Mechanical Engineers 1925.

Also included here are letter from C.E. Inglis (Hinton's supervisor) 1927 and a later letter from R.W. Allen recalling his father's scholarship 1951.

Brunner Mond & Company/ICI

A.145 1926 Correspondence re appointment and starting work, April-July; bonus agreement, December.

A.146 1927 Contract of employment, July. St. John's Ambulance certificate.

A.147 1928 Question papers for 'Passing-out examination of C. Hinton - April 1928', and results 'on a stringent basis' (Alpha for practical and for whole examination).

Letter notifying increase in salary, December.

A.148 1931, 1933 Miscellaneous information on salaries.

Biographical and autobiographical

- A.149 1939 Election to Delegate Board, Alkali Group.
 1943, 1944 Personal letters from Chairman notifying salary increases.
- A.150 1945 Offers of posts in ICI at Wilton and Ardeer (declined by Hinton).
 1973 List of guests at Brunner Mond Centenary Dinner.

Ministry of Supply

- A.151 Hinton's report on Bishopton & Wrexham Royal Ordnance Factories, September 1940 (original of copy at A.2).
- A.152 Two ms. reports by Hinton.

 'Distribution of I.C.I. (Alkali) Staff working for M of S' with a later note 'written about Oct-Nov 1940'.

 'Ranskill', with a later note 'layout of services and specification of requirements for Ranskill. Prepared by Spalding & myself in one weekend about November 1940' (referred to in Memoirs, pp.80-81).
- A.153 Drawing of Ordnance Factory Risley Administration Building (Memoirs, p.110), with later note by Hinton 'The building is the one used as the first atomic energy office at Risley'.

 Correspondence and memos. re reduction and transfer of Filling Factory organisation 1945.
- A.154 Correspondence re appointment as Deputy Director of Ordnance Factories 1941, re possible evacuation to Risley 1944 (see A.153) and re explosion at Ordnance Factory Hereford (1945).
- A.155 Appointment as Deputy Controller of Production, Atomic Energy, resignation from ICI (1946), financial and pension arrangements (1946-50).

Biographical and autobiographical

Knighthood 1951

Letters of congratulation.

A.156 A - D

A.158 S - W

A.157 G - M

A.159 First name and unidentified signatures.

Monte Bello test 1952

A.160 Telegrams of congratulation from Prime Minister and Lord Cherwell.

Coronation 1953

A.161 Award of commemorative medal.

Salary and Pension

Correspondence and papers on conditions of appointment at Ministry of Supply and Atomic Energy Authority, comparability with ICI, transfer of pension rights, etc. Hinton felt that the Establishment branches of the Ministry and Treasury were protracted and ungenerous in staffing arrangements, in his own case and others (Memoirs, pp.234, 332, Chapter XXI passim).

A.162-A.168 are the contents of Hinton's folder 'Personal salary & pension' with his ms. comment 'They shew the difficulty I had in getting reasonable treatment from the M.O.S. and in the early days of A.E.A.'

A.162 1953 December-January 1954. Includes draft letter of appointment as Member for Engineering and Production, Atomic Energy Authority.

A.163 1954 May. Further draft letter of appointment, Hinton's amendments, pension rights.

A.164 1954 June. Includes letter of appointment.

Biographical and autobiographical

- A.165 1954 July, November, December.
- A.166 1955 January-April.
- A.167 1955 May-October.
- A.168 1956, 1957.
- A.169 'Special Fund'
Folder of correspondence re Hinton's fees for broadcasts and lectures undertaken for AEA (and later CEEGB) which were paid into a 'Special Fund' and used for purposes such as the 'Good Housekeeping' competition (see K.11). Folder includes itemised list of fees received and disbursements 1958-64.

United Kingdom Atomic Energy Authority (UKAEA)

- A.170 Correspondence with H. Hartley on future organisation of AEA and Hinton's career, 1956 (Memoirs, p.361).
- A.171 Photocopy of Hinton's evidence to Organisation Committee (on Industrial Group of AEA) with extensive corrections; copy of letter on subject to A. Fleck 1957.
- A.172 Correspondence on Windscale, and on lectures by Hinton 1957.
- A.173 Later correspondence on UKAEA affairs, 1972 (visit to Dounreay), 1975 (30th anniversary dinner of opening of Risley, paid for by Hinton), 1977 (21st anniversary of Calder Hall).
- A.174 Miscellaneous correspondence on visits, Annual Dinners of Risley Nuclear Engineering Society, closure of Capenhurst, etc. 1982.

Biographical and autobiographical

- A.175 Correspondence 1983 on gift of Hinton's chair at Risley, and drawings, to Institutions of Nuclear Engineers, made shortly before his death.

Honours 1957

- A.176 Letters of congratulation on K.B.E. (few survive), including letter from Chippenham schoolfellow.
- A.177 Election as Honorary Fellow, Trinity College, Cambridge; includes a little later (1978-82) correspondence re College Feasts, meetings with and recollections of old friends at Trinity, etc.

Central Electricity Generating Board

- A.178 Correspondence with Lord Mills and others re appointment as Chairman, CEGB, from 1 September 1957.
- Letter from C.R. King on his appointment as Chairman, Electricity Council 1959.
- A.179 Correspondence 1960 re Presidency of Institution of Mechanical Engineers. Hinton was pressed to accept the Presidency for 1961-62, or for 1962-63, but was obliged to decline at the instance of the Minister of Power.
- A.180 Miscellaneous on staffing and appointments at CEGB 1961, 1962.
- A.181 Correspondence with Lord Chandos, July 1963, re House of Lords debate on tender for Wylfa power station (Memoirs, pp.407-419).
- A.182 Correspondence 1964, including letters on Hinton's resignation from CEGB.
- A.183 Correspondence 1965 (Dungeness B), 1971 (amenity), 1975 (visit).

Biographical and autobiographical

- A.184 Correspondence 1982-83 mainly re visit to Central Electricity Research Laboratories with Lord Ashby.
- A.185 Correspondence 1983. Mainly notes of sympathy sent to Hinton in hospital, several with his replies, especially re his anxiety to complete his paper on liquid metal coolant fast breeder reactor for visit to Dounreay. See B.121 for unfinished draft of paper. Also includes arrangements for visit to CEGB Staff College to learn current computing methods.

Life Peerage 1965

- A.186 Correspondence with Lord Penney, re choice of title, and Hinton's original wish to adopt 'Lord Hinton of Calder Hall'.
Included here is letter from W.L. Owen, on war work, May 1945.
Both letters have later ms. comments by Hinton.
- A.187 Correspondence re induction to House, title and bearings, 1965.
- A.188 Description and photographs of bearings, and later (1981) related correspondence with Tisbury Local History Society (Hinton's birthplace).
- A.189 Letters of congratulation A - F.
- A.190 G - M.
- A.191 P - T and unidentified.

Offers of retirement posts

- | | | |
|-------|-------------------------|---------------|
| A.192 | Stothert & Pitt Limited | 1964-65 |
| A.193 | Courtaulds Limited | 1964-65, 1968 |

Biographical and autobiographical

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|-------|--------------------|---------------|
| A.194 | Whessoe Limited | 1964-65 |
| A.195 | Ministry of Health | 1965-66, 1968 |

Photographs

- A.196 Correspondence re portrait photographs of Hinton, 1966 (for Institution of Mechanical Engineers), 1970 (National Portrait Gallery).

Rumford Medal

- A.197 Letter notifying award of Royal Society Rumford Medal, 1970. Hinton's reply to a letter of congratulation with his ms. note 'Many similar letters received'.

Honours 1973, 1974

- A.198 Honorary Fellowship, Institution of Civil Engineers. Includes Hinton's recollections of his early association with the Institution in 1930s.
- A.199 Honorary Membership, The Metals Society.
- A.200 Institution of General Technician Engineers. Hinton was first Honorary Fellow.

Order of Merit 1976

- A.201 Arrangements for investiture.
- A.202-A.205 Letters of congratulation, a few replies, including recollections from all periods of Hinton's career.
- | | | | |
|-------|-------|-------|-------|
| A.202 | B - D | A.204 | O - T |
| A.203 | G - M | A.205 | W - Z |

Biographical and autobiographical

Honours, 1977, 1978

- A.206 Honorary Membership, Institute of Fuel, 1977
- A.207 Award of first Hinton Medal of the Institution of Nuclear Engineers, 1977.
- A.208 Mark Twain Society, 1978.

Honours, 1981-83

- A.209 Honorary Fellowship, Institution of Municipal Engineers, 1981.
- A.210 Correspondence, etc. re Society of Retired Chartered Engineers, 1982-83.
- A.211 re Honorary Fellowship, Society of Engineers, 1983.

Hinton's last illness and death

- A.212 Letters and cards received while Hinton was in hospital, some with replies by Hinton or by Mrs. Ellis; includes a little correspondence received after Hinton's death, answered by Mrs. Ellis.
- A.213 Cards with no reply.

Correspondence with Churchill College, Cambridge, re Hinton's papers.

- A.214 1968-70
- A.215 1971-77
- A.216 1982 Includes Hinton's letter to Master, April 1982, describing work on design of various atomic power stations (6 pp. typescript).

Biographical and autobiographical

Gifts, endowments and bequests

- A.217 Cheshire Masonic Covenants, 1970
 Council of Engineering Institutions, 1977
 Doncaster and District Hospitals, 1979
- A.218 Institution of Mechanical Engineers, 1972-75
- A.219 Fellowship of Engineering, 1981
- A.220 Home Farm Trust, 1981
 Risley Drawing Office Apprenticeship Design Prize, 1981

Obituaries and tributes

- A.221 Obituary of Hinton, The Times (photocopy).
 Address by M.M. Gowing at the Service of Thanksgiving, Westminster
 Abbey, 26 October 1983 (photocopy).

Biographical and autobiographical

FAMILY AND PERSONAL CORRESPONDENCE

- A.222 Family letters; from father, and from uncle, on Hinton's knighthood, 1951.

 Also included here is letter, 1970, re upkeep of Hinton's mother's grave, and letter, 1973, re Hinton's father's articles on Lacock Church.
- A.223 Correspondence with Joan Hinton (sister), 1951 (on knighthood), 1971, 1973 (Hinton's carbons only).
- A.224 Death of Lady Hinton.

 Folder includes list of letters of condolence received; 'Mourn over the death of Lady Hinton' by Japanese friend; correspondence 1974-75 re Hinton's gift of dress and accessories worn by his wife at Bath University to Museum of Costume, Bath.
- A.225 Letters to C. Mole (grandson), 1981-83.
- A.226 Correspondence with R. Tanner (former schoolmaster at Ivy Lane School) with family and personal recollections, 1977-82. Includes draft for Hinton's speech for Dedication Service of Church Hall at Tisbury, December 1977, read for him by Tanner.
- A.226A Brief correspondence 1983 re Tisbury Team Ministry.

Biographical and autobiographical

MISCELLANEOUS

- A.227 Address book.
- A.228 Presentation folder expressing the appreciation of Royal Swedish Academy of Sciences, on the occasion of the Axel Axson Johnson lecture 1957. Includes photograph. See also B.8.
- A.229 Christmas cards 1964-68 and n.d., illustrations and text by hand, featuring power stations and other technological subjects.
- 70th birthday card, from staff at Springfields.
- A.230, A.231 Invitations 1980-83, some with replies.

SECTION B ENERGY B.1 - B.145

B.1 -B.58 LECTURES

B.59-B.141 GENERAL CORRESPONDENCE AND PAPERS

B.142-B.145 BACKGROUND MATERIAL

LECTURES

The lectures are presented as arranged by Hinton and reflect his views on their value.

B.1 -B.41 Atomic Energy

B.42-B.58 Electricity Supply

ATOMIC ENERGY

B.1-B.17 'Atomic energy major papers'

Contents of a folder thus titled.

B.1 Contents list (20 items; 10, 11, 17 and 19 not found).

B.2 'Atomic Energy made easy', n.d.

Hinton's ms. notes for lecture, with a later ms. identification by him: 'They are the notes for the Risley induction lecture on which "ABC" of Atomic Energy was based'. See B.16, B.17.

B.3 'Atomic Energy developments in Great Britain', Industrial Conference, New York, 31 October 1953.

10pp. draft with later ms. note by Hinton 'worth glancing through because it was the first lecture on the industrial effort in the UK'.

B.4 'Nuclear Reactors and Power Production', James Clayton Lecture to Institution of Mechanical Engineers, 26 February 1954.

Printed version (CEGB) with 3pp. typescript addendum.

Energy

B.5 'The Graphite-Moderated, Gas-Cooled Pile and its place in Power Production', International Conference on the Peaceful Uses of Atomic Energy, Geneva, August 1955.

'Notes for Geneva' (11pp.); printed version (UKAEA).

B.6 'British Thoughts on Nuclear Power', UNIPED Conference, London, 19 September 1955.

11pp. duplicated typescript; 1p. list of diagrams.

B.7 'Speech on "Safety"', Thurso, December 1955.

4pp. (2 copies); 1p. extract from speech, dated 26 March 1979.

B.8 'The Future for Nuclear Power', Axel Johnson Lecture, Stockholm, 15 March 1957. See also A.228.

Photocopy of printed version (Royal Swedish Academy of Engineering Science); background material. The lecture was given on the occasion of the presentation of the Axel Johnson award to Hinton who reflects on the occasion and the importance of the award, *Memoirs*, p.372.

B.9 'The Development of Nuclear Power in the United Kingdom', Scientific American, 1958.

14pp. typescript 'final draft', 10 December 1957; 'Addenda' to paper (2 versions). Hinton describes the paper as 'nothing more than journalism'.

B.10 Melchett Lecture, Institute of Fuel, 19 February 1958.

20pp. 'final draft' (photocopy).

B.11 'The Development of Nuclear Energy for Electricity Supply in Great Britain', British Electrical Power Convention, Brighton, 17 June 1958.

Printed version only.

B.12 'A Review of the Future of Nuclear Reactor Systems in the Light of Available Research and Operating Experience', World Power Conference, Montreal, September 1958.

19pp. typescript draft; printed version, with L. Rotherham as co-author. Hinton notes on the typescript draft that, while the philosophy was his, the details were provided by others.

Energy

B.12A 'The Development of Nuclear Power in Competition with other Power Sources in U.K.', Oxford University Scientific Society, 6 November 1959.

Miscellaneous typescript notes; figures.

B.13 'The Lessons of the Past Seven Years in Atomic Energy', World Power Conference - Madrid Sectional Meeting, 7 June 1960.

8pp. typescript. Hinton describes this general address as 'short but important'.

B.14 'The Economics of Nuclear Power in Great Britain' (with F.H.S. Brown and L. Rotherham), World Power Conference Sectional Meeting in Madrid, 7 June 1960.

22pp. duplicated typescript; figures. A later ms. note by Hinton records that although he 'was responsible for the skeletal shape of this paper and supervised its preparation, most of it was written by Rotherham's and Brown's staff'.

B.15 'The development of atomic energy and its industrial application', TUC conference on radiation in industry, 13 October 1960.

15pp. typescript draft; figures.

B.16, B.17 Series of talks for Australian Broadcasting Commission: 'The ABC of Atomic Energy', September 1964. (Revision of BBC series in 1958.)

B.16 Typescript drafts for 'Trailer to series' and six talks.

B.17 22pp. typescript draft for 'revised booklet to accompany talks'. In a later ms. note with this draft Hinton records his opinion that the revised version was 'better than the original talks because I have been able to eliminate some of the nonsense forced on me by the Public Relations department'.

For the booklet published to accompany the BBC talks in 1958, see F.110. For gramophone records of the BBC talks, see K.36.

B.18-B.31 'Atomic energy - minor papers'.

Contents of a folder thus titled.

B.18 Contents list (16 items; 1, 2, 6, 9 and 13 not found).

B.19 'Atomic energy in industry', BBC 'lecture and interview', February 1955.

Script, 'questions suggested by Sir Christopher Hinton', etc.

Energy

- B.20 'Notes for a lecture to the Federation of British Industries at Birmingham', 25 November 1955.
11pp. typescript.
- B.21 'Draft of opening remarks for the symposium of the B.N.E.C. [British Nuclear Energy Society]', 30 November 1955.
3pp. typescript.
- B.22 'Leonardo da Vinci lecture at the Institution of Mechanical Engineers', 11 April 1956.
18pp. typescript.
- B.23 'First draft for an introductory note for the journal of nuclear energy edition dealing with the opening of Calder Hall', August 1956.
2pp. typescript.
- B.24 'Nuclear reactors for the generation of electrical power', Endeavour, April 1957.
Heavily-corrected proof.
- B.25 'Fifth draft of Financial Times article on the siting of nuclear power reactors', 1 March 1957.
4pp. typescript with ms. note 'this copy not used'.
- B.26 'The Nuclear Propulsion of Ships' (with R.V. Moore), Institution of Marine Engineers, 27 November 1957.
Advance copy of printed version.
- B.27 'Nuclear Power', Times Supplement to mark Tercentenary of the Royal Society, July 1960.
- B.28 Speech at Symposium on the Advanced Gas-cooled Reactor, British Nuclear Energy Society, 14 March 1963.
4pp. typescript.
- B.29 'The uses of nuclear power in Britain', lecture for Commonwealth - American current affairs unit, July 1966.
18pp. typescript.
- B.30 Not used.
- B.31 'Two decades of nuclear confusion', New Scientist, 28 October 1976. (Not in contents list at B.18.)
Printed text only.

Energy

B.32-B.34 'Atomic Energy Chemical Processes'

Contents of a folder thus titled.

B.32 'The Chemical Separation Processes at Windscale Works',
Castner Memorial Lecture, Society of Chemical Industry, 23 February
1956.

Photocopy of printed text.

B.33 'Solvent Extraction of Plutonium'

Booklet published by UKAEA for Royal Society Tercentenary celebrations
exhibition, 1960.

B.34 'Lecture Notes - History of Springfields', n.d.

8pp. typescript,

B.35-B.41 'Atomic Energy Lectures given in Japan'

Contents of a folder thus titled. There is an account of Hinton's 1956
'Japanese Interlude' in Memoirs, pp.342-350.

B.35 Contents list (6 items).

Letter of thanks and appreciation from British Ambassador.

B.36 'Atomic Energy in Great Britain', 1st lecture, April 1956.

14pp. typescript.

B.37 'Second lecture - for Scientists', April 1956.

17pp. typescript.

B.38 'A Talk to People in the Inner Circle of Atomic Energy in
Japan', 3rd lecture, April 1956.

16pp. typescript.

B.39 'Article for the Yomiuri Shimbun Special Edition on the Occasion
of the Opening of Calder Hall', 1956.

2pp. typescript.

B.40 'The problems and prospects of nuclear power', lecture to
Atomic Industry Forum in Tokyo, 28 November 1962.

22pp. typescript; tables and figures.

Energy

B.41 'Nuclear Power Plants in England and Wales', lecture to be given in Osaka, Japan, 30 November 1962.

15pp. typescript; figures.

ELECTRICITY SUPPLY

B.42-B.49 'Electricity Supply - Short Papers'

Contents of a folder thus titled.

B.42 Contents list (20 items; 1, 2, 5, 11, 16, 18 and 20 only were found).

B.43 'Address for Fuel and Power Group of the Parliamentary Labour Party', 16 March 1960.

12pp. typescript; table.

B.44 'History of Electricity Supply Industry', notes for speech at opening of 'CEGB/TVA/Ontario Hydro Conference', 20 June 1960.

3pp. typescript.

B.45 'Article for the "Guardian"', 25 October 1960.

6pp. typescript.

B.46 Notes for Chairman's speech, CEGB press conference on annual report 1961/2, 18 September 1962.

8pp. typescript.

B.47 'Patterns of Growth - The Gas and Electricity Supply Industries', address to centenary meeting of Institution of Gas Engineers, 14 May 1963.

11pp. typescript.

B.48 'Notes for Chairman's Farewell Meetings with Local Advisory Committees, Autumn 1964'.

7pp. typescript.

Energy

B.49 'Electrical Power in England and Wales', lecture for St. Dunstan's College Armstrong Society, 29 January 1964.

13pp. typescript; figures.

B.50-B.54 'Electricity Supply'

Contents of a folder thus titled.

B.50 Contents list (7 items; 2, 5 and 7 only were found).

B.51 'The British Electricity Transmission System', British Electrical Power Convention, Eastbourne, 13 June 1961.

Photocopy of printed text.

B.52 'Electrical Power in England and Wales', lecture given at Perth University, 9 October and in Adelaide, 15 October 1962.

15pp. typescript; figures. A ms. note records that this was 'the Mitchell Memorial Lecture, given at Stoke-on-Trent, 15 November 1961 revised and brought up to date'.

B.53, B.54 'The Future of Power Technology', The Citrine Lecture, British Electrical Power Convention, 1965.

45pp. typescript + figures (2 folders).

B.55-B.58 'Amenity'

Contents of a folder thus titled. There is an account of Hinton's interest in amenity questions while Chairman of the CEGB in Memoirs, pp.478-481.

B.55 Contents list (3 items).

B.56 'Power Production and Transmission in the Countryside: Preserving Amenities', Royal Society of Arts, 25 November 1959.

Printed text only.

B.57 'The Amenity Problem as it affects the Electricity Industry', address to County Councils Association, 5 April 1960.

5pp. typescript paginated 9-13 and note explaining missing text.

Energy

B.58 'The Problem of Growth in the Electricity Supply Industry',
address to conference of National Parks Authorities, Harlech, 5 May
1961.

15pp. typescript.

GENERAL CORRESPONDENCE AND PAPERS

| | |
|-------------|-----------------------|
| B.59 -B.97 | Nuclear Power |
| B.98 -B.125 | Fast Breeder Reactors |
| B.126-B.141 | Miscellaneous |

NUCLEAR POWER

These are the contents of Hinton's files on nuclear power 'excluding AEA papers and BNFL'. The period covered is 1966-83 and the material for 1966-79 had a note 'examined by Lord Hinton - 10.12.81.'

| | |
|------|---|
| B.59 | 1966 April |
| B.60 | 1967 February-July. Correspondence with Clerk to the House of Commons Select Committee on Science and Technology <u>re</u> Committee's enquiry into the UK nuclear reactor programme. |
| B.61 | 1967 December and n.d. Includes 7pp. typescript by Hinton on the future of the British nuclear power industry 'probably written about the end of 1967' according to Hinton's later (1981) ms. note. |
| B.62 | 1968 January, February. Includes exchanges with H. Kronberger and P.M.S. Blackett <u>re</u> desalination of sea water. |
| B.63 | 1968 May, July, August. Includes Hinton's 'Notes on draft biographical memoir on Sir John Cockcroft' (6pp. typescript) with covering letter to its author W.G. Penney. |

Energy

- B.64 1969 April, May, December.
- B.65 1970 September-December. Includes correspondence re amenity questions; requests for information and advice re the American light water reactor (from T.E. Allibone), Sir John Cockcroft (from George G. Harrap & Co.) and political control of atomic energy programme (from C.E.S. Franks).
- B.66 1971 January. Includes exchange with W.G. Penney on Hinton's 1968 World Bank report on nuclear power.
- B.67 1971 February-April. Includes correspondence re the state of atomic energy in the UK and the training of engineers.
- B.68 1971 May-August. Includes letter from the President of Atomic Energy of Canada Limited with 'heavy water information' and drafts of J.V. Dunworth's obituary notice of W.L. Owen with Hinton's comments.
- B.69 1971 October, November. Includes correspondence with Director, Division of Reactor Development and Technology, US Atomic Energy Commission and letter from Hinton to B.H. Flowers re Flowers's Leverhulme Lecture.
- B.70 1972 January.
- B.71 1972 February. Correspondence re Oxford Professorship of the History of Science.
- B.72 1972 June. Correspondence with L. Rotherham re his Royal Society memoir of H. Kronberger. Folder includes draft of memoir.
- B.73 1972 July, November, December. Principally material re C.E.S. Franks's manuscript on 'Parliament and Atomic Energy'. Folder includes Hinton's 'Comments' (16pp. typescript). For the draft manuscript and a further note on it by Hinton, see B.131-B.139.
- B.74 1973 January-May. Principally re Canadian nuclear development.
- B.75 1973 June-December. Principally re reactor design.

Energy

- B.76 1974. Includes correspondence re the energy crisis, 'galloping conductors', the choice of the Dounreay site and long-lived radioactive wastes.
- B.77 1975. Correspondence re Institution of Nuclear Engineers and draft press notice headed 'Royal Commission on Environmental Pollution's views on demonstration commercial-scale fast breeder nuclear power station made known to Prime Minister'.
- B.78 1976 February, March. Includes correspondence with S.H.U. Bowie re uranium, and Ann Moyal re nuclear developments in Australia.
- B.79 1976 April, May. Includes draft article for Sydney Morning Herald which Ann Moyal based on her correspondence and discussions with Hinton and Hinton's 'amended script' of the article.
- B.80 1976 June, July, September. Includes copy of the Ann Moyal article as published in the Sydney Morning Herald; also questionnaire on the evolution of nuclear safety and its practice in the nuclear industry filled in by Hinton and paper on quantitative safety analysis in the nuclear industry annotated by Hinton (both sent to him by O. Critchley).
- B.81 1976 October-December.
- B.82 1977 March-June. Includes correspondence with the Institution of Nuclear Engineers re its proposal for a 'Hinton medal' and D.G. Richards re his official biography of Lord Portal.
- B.83 1977 September, October. Includes Hinton's reflections on the development of the nuclear industry.
- B.84 1978. Includes paper on 'Energy prospects and nuclear power in the global era' annotated by Hinton.
- B.85 1979 January-May. Includes statement by W.K. Davis, Vice-President, National Academy on Engineering on the accident at Three Mile Island Nuclear Plant and F.L. Tombs's 'In-transit Notes on Visit to USA/Australia 19 March-7 April 1979'.
- B.86 1979 August, September. Includes correspondence re BBC Panorama programme on atomic energy.

Energy

- B.87 1979 September 5. One letter only, on reactor sites.
- B.88 1979 October-December
- B.89 1980 March 21. One letter only, on choice of reactor design.
- B.90 1980 March-May. Includes correspondence and papers re Institution of Nuclear Engineers.
- B.91 1980 July-September.
- B.92 1980 October. Includes transcript of the evidence of W.K. Davis before the House of Commons Select Committee on Energy.
- B.93 1981 January, February. Includes correspondence re fast nuclear breeder reactors.
- B.94 1981 March-September. Includes Hinton's recollections of personnel and incidents in early nuclear years; also exchange with A.H. Cottrell re Cottrell's monograph on the safety of nuclear power.
- B.95 1982 November, December.
- B.96 1983 January, February.
- B.97 1983 March, April. Includes Hinton's comments on the recent history and present state of the nuclear power industry and on technological innovation in British industry with particular reference to nuclear energy.

Energy

FAST BREEDER REACTORS

B.98-B.104 '1st Visit to Prototype Fast Breeder Reactor at Dounreay - For Lord Rothschild's CPRS [Central Policy Review Staff] - 1974'.

Contents of a folder so inscribed.

B.98 1974 May, June. Rothschild's letter of 13 May asks if Hinton was prepared to visit the Prototype Fast Breeder Reactor at Dounreay and let him know what he thought about it. Folder also includes 11pp. typescript by Hinton 'The Fast Reactor. A basis for thought', 19 June.

B.99 1974 July, August. Includes programme for Hinton's visit to Risley and Dounreay, 12-14 August, 'Notes for Fast Reactor brief for visit of Lord Hinton', and 'Brief for Lord Hinton'. The general case for developing a Fast Reactor capability in the UK'.

B.100 'Notes for discussion on CFR [Commercial Fast Reactor] with Lord Hinton ... August 12 1974' prepared by The Nuclear Power Group Limited, Risley.

B.101, B.102 'Report to Lord Rothschild on the Fast Reactor Project'. 34pp. + 3pp. typescript 'first draft', August 1974 (2 versions).

B.103 1974 September-November. Includes Hinton's letter of 2 September listing 'minor modifications' to the report.

B.104 'The Fast Breeder Reactor', Central Policy Review Staff, September 1974.

This is the printed version of Hinton's report with a preface by CPRS.

B.105-B.120 '2nd Visit to Prototype Fast Breeder Reactor at Dounreay - For Sir Kenneth Berrill - 1975'.

Contents of a folder so inscribed.

B.105 1975 July. Hinton agreed to undertake a personal investigation (in collaboration with L. Rotherham) into the prospects for a commercial fast reactor. Folder includes 'notes on meeting with AEA, D/En, CPRS and Lord Hinton ... 18 July 1975'.

Energy

- B.106 1975 August (1). Includes 'special paper' on 'Fast Reactor Steam Generators' prepared for Hinton's visit to Risley.
- B.107 1975 August (2). Includes paper on Fast Reactor Collaboration between the UK, France and Germany.
- B.108 1975 August (3). Includes notes of discussions at Risley, 19-21 and 29 August.
- B.109 1975 September (1). Includes draft report on the British fast reactor project 'written by Lord Hinton for discussion with Dr. Rotherham' (22pp.).
- B.110 1975 September (2). Includes comments on and revisions of the draft report.
- B.111 1975 October. Includes amended report sent to K. Berrill, 6 October (27pp.).
- B.112 1975 December-1976 January. Correspondence arising from submission of report.
- B.113 1976 February, May. Continuing correspondence arising.
- B.114 1976 July. Photocopy of 'bowdlerised' version of report sent to Swedish colleague, with Hinton's covering letter.
- B.115 Small format notebook used by Hinton in respect of visits to Risley and Dounreay.
- B.116 Similar.
- B.117 Top copy of Hinton's and Rotherham's report 'The British Fast Reactor Project - September 1975'.
- B.118 Carbon copy, annotated by Hinton.
- B.119, B.120 Background material.

Energy

B.121-B.125 Paper for Electricity Supply Research Council on Fast Reactors, 1983.

B.121 'Where is work on fast reactors leading us?'

6pp. 'unfinished' draft (carbon), 27 May 1983; figures. At the end of the draft is Mrs. Ellis's typescript note:

'This was only a very rough "first draft" of a paper Lord Hinton was intending to submit to the ESRC for their meeting at Dounreay in July 1983. Unfortunately he only got as far as this typescript when he had his fall and never recovered enough to complete this paper.'

Mrs. Ellis also added a ms. note at the head of the draft 'Top copy was sent to Sir Alan Cottrell, Chairman, ESRC on 18/7/83'. Hinton died on 22 June 1983.

See A.185 for correspondence from hospital reflecting Hinton's anxiety to complete this paper during his last illness.

B.122 Hinton's ms. and typescript notes. Includes Hinton's note on the Three Mile Island incident, 10 December 1982 (2pp. typescript).

B.123 Correspondence, December 1982-February 1983, found with draft and notes.

B.124, B.125 Background material (2 folders).

Energy

MISCELLANEOUS

A chronological sequence of miscellaneous papers, 1956-75.

- B.126 Opening of the Calder Hall Atomic Power Station, 17 October 1956.
Programme, overseas guest list, seating plan, etc.
See also K.5.
- B.127 Letter from Sir Richard Nugent, Chairman of the House of Commons
Select Committee on nationalised industries, 6 June 1962.

Nugent wrote at the end of the Committee's enquiry into the electricity
supply industry that taking evidence from Hinton had been a remarkable
experience:
- 'Such a long and arduous examination is bound to penetrate
the outer crust of personality and show the true nature of a man.
Your brilliant mind and generous heart shine through, and left me
with an impression which I shall always remember and treasure.
- 'This has been a rich and unexpected bonus for me as Chair-
man of the Committee, which will put me permanently in your
debt! '
- B.128 'The Electricity Supply Industry'

10pp. typescript, with ms. corrections and additions. Ms. inscriptions
at head of the paper indicate that it was 'for Lord Douglass' and 'typed
25.11.68'.
- B.129 'Some questions on Fuel Policy'

15pp. typescript 'second draft'. Ms. additions tentatively date this
paper in November 1968.
- B.130 'The Philosophy of Generating Plant Design'

4pp. typescript (carbon), 2 July 1969. Ms. inscriptions at head of the
paper indicate it was 'sent to Dr Forrest' and 'for possible circulation
to ESRC'.

Energy

B.131-B.139 'Parliament and Atomic Energy: The Political Control of a Government Programme'

Duplicated typescript draft sent to Hinton for comment in 1972 by its author, C.E.S. Franks. For related correspondence, see B.65, B.66, B.68, B.73, B.74.

B.131 Hinton's ms. note on the value of the manuscript, table of contents and chapter I.

B.132 Chapter II

B.133 Chapter III

B.134 Chapter IV

B.135 Chapter V

B.136 Chapter VI

B.137 Chapter VII

B.138 Chapter VIII

B.139 Chapter IX

B.140, B.141 Plowden Committee of Inquiry into the Structure of the Electricity Supply Industry, 1974-75.

B.140 1974 December-1975 January. Includes Lord Plowden's invitation to Hinton to submit a written statement of his views, 19 December and Hinton's 'Note for the Committee of Inquiry into the Structure of the Electricity Supply Industry', 9 January (15pp. typescript carbon).

B.141 1975 March, April, December. Includes Hinton's oral evidence to the committee, 10 April (4pp.).

Energy

BACKGROUND MATERIAL

- B.142 Typescript lists of reference material on nuclear power, electricity supply, etc., with index. In original binder.
- B.143 Extracts from newspapers and specialised publications on energy matters (typescript and photocopies); also Hinton's own notes for the file, some relating to House of Lords committee work. 1982-83. In original binder.
- B.144 Duplicated and printed energy papers, annotated by Hinton.
- B.145 'Lectures by other people' (Hinton's category), 1956-81.
Some have annotations, comments, etc. by Hinton. A few only relate to energy questions.

SECTION C ENGINEERING C.1 - C.266

C.1 -C.6 AMERICAN SOCIETY OF MECHANICAL ENGINEERS

C.7 BRITISH ASSOCIATION CO-ORDINATING GROUP

C.8 -C.75 COUNCIL OF ENGINEERING INSTITUTIONS (CEI)
With an introductory note

C.76 -C.248 THE FELLOWSHIP OF ENGINEERING
With an introductory note

C.249 INSTITUTION OF CIVIL ENGINEERS

C.250 INSTITUTION OF ELECTRICAL ENGINEERS

C.251-C.260 INSTITUTION OF MECHANICAL ENGINEERS

C.261-C.264 NATIONAL ACADEMY OF ENGINEERING

C.265, C.266 NATIONAL ACADEMY OF ENGINEERING (MEXICO)

Engineering

C.1-C.6 AMERICAN SOCIETY OF MECHANICAL ENGINEERS, 1973-83

Hinton was elected Honorary Member of the Society in 1973. The remaining papers relate to his nomination of other British engineers for the same honour.

| | | | |
|-----|----------|-----|----------|
| C.1 | 1973 | C.4 | 1978 (2) |
| C.2 | 1974 | C.5 | 1979-80 |
| C.3 | 1978 (1) | C.6 | 1981-83 |

C.7 BRITISH ASSOCIATION CO-ORDINATING GROUP, 1976-77

Brief correspondence and 'Paper 8' (annotated by Hinton) on 'education recruitment and deployment of professional level engineers to improve the performance of manufacturing industry and in particular production management'.

C.8-C.75 COUNCIL OF ENGINEERING INSTITUTIONS (CEI), 1967-83

In 1966 the Council of Engineering Institutions was brought into being under the terms of a Royal Charter. HRH Prince Philip, Duke of Edinburgh, served as its first President for ten years (the maximum term of office). In 1976 the CEI was reorganised and Hinton assumed the Presidency initially for a term of five years, subsequently extended. Much of the general correspondence and papers relates to the various proposals for the reorganisation of the engineering profession including those of the Finnieston Committee of Enquiry (1980). The MacRobert Award, administered by the CEI during the period Hinton was associated with it, is represented by separate sequences of material at C.38-C.75.

Engineering

C.8-C.29 'General Correspondence', 1967-83.

Contents of a very bulky folder so inscribed.

C.8 5pp. typescript notes headed 'Fulton Committee', January 1967.

C.9 'Committee on the Civil Service. Note of a meeting held at H.M. Treasury ... 14th February 1967' (29 pp. typescript). Hinton was one of the five witnesses from the CEI.

C.10 1967 August. Secretaryship of the CEI.

C.11 'Draft paper on future activities of CEI', 1968, with ms. note by Hinton dated 23 November 1981 'I am almost certain that I wrote this paper'. See also C.30.

C.12 1971 October, November. Proposal for a CEI Senate. Hinton's carbon of 9 November has later ms. note by him 'Nothing came of this proposal which was one of Prince Philip's bright ideas'.

C.13 1974 January. Environmental engineering exhibition.

C.14 1974 November, December. Future organisation of the engineering profession.

C.15 1975 March 26. 'Report of the CEI Executive Committee to the Board of CEI on the future organisation of the engineering profession', annotated by Hinton.

C.16 1975 September-December. Future organisation of the engineering profession.

C.17 1976 January. Future organisation of the engineering profession. Includes 2 copies of note from the Presidents of the Institutions of Electrical and Mechanical Engineers, with different annotations by Hinton.

C.18 1976 February, March. Organisation of engineering profession. Includes 'Extract from the speech given by Lord Hinton at the Guildhall on Tuesday, February 10th 1976'.

C.19 1976 April-October. Organisation of engineering profession. Includes Hinton's 'Proposals' for CEI constitution and terms of reference, 12 April.

Engineering

- C.20 1977. CEI branches; Science Centre Project; Presidency of the CEI and the Fellowship.
- C.21 1978. Presidency of the CEI and the Fellowship; Contemporary Scientific Archives Centre; MacRobert Award.
- C.22 1979. Recommendation; corporate membership of constituent institutions.
- C.23 1980. Presidency of the CEI.
- C.24 1981. Committee on Creativity and Innovation; financing of the Engineering Council.
- C.25 1982 January-June. Engineering Council; Foundation for Science and Technology; energy and raw materials questions.
- C.26 1982 July-September. Engineering Council.
- C.27 1982 October. Engineering Council's Policy Statement. Includes copy of statement annotated by Hinton and Hinton's letter to the Chairman of the CEI abstracting the Hansard record of debates on the Industry Bill.
- C.28 1982 November. Engineering Council.
- C.29 1983 February-June. Includes copy of bye-laws of Engineering Council annotated by Hinton.

C.30 Papers re possible central building for engineering institutions, 1967-68.

Brief correspondence (letter from the CEI Secretary of 9 February 1968 has later explanatory note by Hinton dated 30 November 1981); draft paper on 'A Combined C.E.I. Centre'; analysis of replies to questionnaire on joint housing; analysis of CEI activities under headings 'work done or in hand' and 'future developments'.

Engineering

- C.31, C.32 CEI Parliamentary Affairs Committee, 1970-72.
- Correspondence, memoranda and minutes. The original folder (not retained) bore a ms. inscription 'examined by Lord Hinton 1/12/81'.
- C.31 1970. New Education Act; Hinton's membership of Parliamentary affairs committee.
- C.32 1971-72. Industrial relations, etc.
-
- C.33-C.35 CEI/CSTI Council for Environmental Science and Engineering, 1973-76.
- Correspondence and committee papers. On the formation of the Council in 1973, its chairman, K.C. Dunham, invited Hinton to become a member. He resigned in 1976 because his other commitments were so heavy.
- C.33 1973. Includes annotated agenda of 'formation' meeting (16 April) and Hinton's 4pp. letter of 19 April to M.W. Leonard setting out his views on the problems facing the Council and what its approach should be.
- C.34 1974. Minutes only, of fifth and seventh meetings of the Council.
- C.35 1975-76. Includes minutes of ninth meeting and Hinton's letter of resignation.
-
- C.36 'CEI - Energy Crisis 1974'.
- Contents of a folder so inscribed: correspondence, 'notes of a meeting of the CEI Chairman's Energy Panel' and photocopies of letters to The Times on the Energy Crisis.
-
- C.37 Press-cuttings re CEI affairs, 1975-76 (photocopies). Many relate to Hinton becoming President of the CEI in succession to the Duke of Edinburgh.

Engineering

C.38-C.75 The MacRobert Award

The MacRobert Award, funded by the MacRobert Trusts, is made annually in recognition of 'an outstanding contribution ... by way of innovation in the fields of engineering or the other physical technologies or in the application of the physical sciences'. During the period when Hinton was concerned with the Award, the winner was nominated by the Board of the CEI on the advice of an Evaluation Panel which included representatives of the Royal Society as well as of the CEI Groups. Hinton played an important part in the preliminary negotiations between the MacRobert Trustees and the CEI and served as chairman of the Evaluation Panel for many years before offering his resignation in March 1977. The first award was made in 1969.

C.38-C.52 'MacRobert Award - Correspondence', 1968-77.

Contents of a very bulky folder 'examined by Lord Hinton Dec. '81'. Includes Hinton's correspondence with the Secretary of the MacRobert Trustees, the CEI MacRobert Award office, members of the Evaluation Committee and others.

| | | | |
|------|----------------------|------|-------------------------|
| C.38 | 1968 | C.45 | 1971 December |
| C.39 | 1969 | C.46 | 1972 |
| C.40 | 1970 January | C.47 | 1973 February-September |
| C.41 | 1970 February-April | C.48 | 1973 November, December |
| C.42 | 1970 May, June | C.49 | 1974 |
| C.43 | 1970 August-November | C.50 | 1975 |
| C.44 | 1971 February-April | C.51 | 1976 |
| | | C.52 | 1977 |

Engineering

C.53-C.59 Committee Papers, 1968-76

Contents of a folder 'examined by Lord Hinton 15.2.79 and re-examined 4.12.81'.

Minutes, memoranda, evaluation sheets (short-listed topics considered against four criteria: merit of conception, merit of evolution to practical use, prestige and national prosperity) and a little correspondence.

| | | | |
|------|---------|------|---------|
| C.53 | 1968-69 | C.56 | 1973 |
| C.54 | 1970 | C.57 | 1974 |
| C.55 | 1971-72 | C.58 | 1975-76 |

C.59 MacRobert Award shortlists, 1969-76; membership of evaluation committee, 1974-76.

C.60-C.74 MacRobert Award winners, 1969-75

Miscellaneous material including draft statements prepared for CEI Board, public announcement of award, etc.

C.60 1969. Award to Freeman, Fox and Partners and Rolls-Royce, Bristol.

4pp. typescript statement re award winners.

C.61, C.62 1970. Award to British Petroleum.

C.61 Duplicated material from BP re their successful submission; letter from M. J. Lighthill.

C.62 'Speech 15.12.70' on 'The B.P. Exploration of the Alaskan North Slopes Oilfield'.

C.63 1971. Award to Gas Council.

4pp. typescript statement re award winner (2 copies); duplicated and printed background material.

C.64 1972. Award to EMI.

'Press conference. The new invention of X-ray techniques used in the EMI-scanner', 22 November (18pp. typescript).

Engineering

C.65, C.66 1973. Award to Dunlop.

C.65 5pp. typescript draft re award winner.

C.66 Correspondence with G.W. Turner.

C.67-C.69 1974. Award to ICI.

C.67 Note of meeting between Evaluation Committee and ICI representatives, 17 October 1974; Hinton's ms. notes.

C.68 4pp. typescript statement on award winner; ms. notes for speech; letters of thanks from ICI.

C.69 'Methanol Synthesis by ICI Low Pressure Process' (ICI publication annotated by Hinton).

C.70-C.73 1975. Award to British Railways Board and Westland Helicopters.

C.70 'Note of the second visit of the MacRobert Award Evaluation Committee to the Advanced Passenger Train', 8 October 1975; material supplied by British Railways Board Research and Development Division in support of their submission.

C.71 4pp. typescript draft 'The development of new principles for the design of suspension and support systems for railway rolling stock', 9 October 1975, with ms. annotations by Hinton and R.C. Bond; 5pp. typescript draft 'Developments in Railway Vehicle Suspensions', 30 October 1975, with ms. annotations by Hinton and (at head of first page) the date '2 December 1975' and 'Copy sent to L. Zuckerman 10/12/81'; correspondence with R.C. Bond, October, November 1975; 1p. ms. note on the MacRobert Award.

C.72 Report of Evaluation Committee's visit to Westland, 4 November 1975; 9pp. typescript statement + figures on 'The semi-rigid rotor', 19 September 1972, annotated by Hinton.

C.73 'Lynx' (Westland Helicopters Limited publication, 1972) and 'The Lynx Helicopter', 2 December 1975 (6pp. typescript statement by Hinton).

Engineering

C.74 1976. No award.

Copy of Times article 'Is innovation caught in a poverty trap?' and letter from Hinton to the Times's Technology Correspondent (both 3 December 1976); also MacRobert Award shortlists.

C.75 List of MacRobert Award winners, 1969-82.

Engineering

C.76-C.248 THE FELLOWSHIP OF ENGINEERING, 1975-83

C.76 -C.179 General correspondence and papers

C.180-C.205 Appeals and finance

C.206-C.248 Finniston Committee of Enquiry into the Engineering Profession.

In 1975 the CEI's new Charter and Statutes created a Fellowship of Engineering thus meeting the wishes of Prince Philip for 'the formation of an elite body which would do for engineering what The Royal Society does for the sciences and scientific technology'. In accordance with the terms of the Charter Hinton, as President of the CEI, became President and Chairman of the Fellowship, serving a five-year term to 1981. In his 'Memorandum of Activities from 1970 to 1980' (A.9) Hinton draws attention to some of the difficulties experienced in getting the new organisation off the ground, including the absence of secretarial support and inadequate finances. It is clear from the very extensive documentation which survives how much of the burden of these early years was borne by Hinton and his private secretary, Mrs. Ellis.

Hinton's files of general correspondence and papers relate to the founding, organisation and administration of the Fellowship, including the Annual Distinction Lecture and Annual Soirée. There is very little material relating to selecting members of the Fellowship. For the period of Hinton's Presidency this was the responsibility of a subcommittee chaired by Sir Hugh Ford. Hinton's appeal committee files relate to his efforts to put the Fellowship on a sound financial footing.

Hinton's Finniston Committee papers are presented in a separate subsection under the general heading of Fellowship of Engineering since except on the occasions when he acted in a personal capacity he was acting as President of the Fellowship in respect of the Finniston Enquiry.

Engineering

GENERAL CORRESPONDENCE AND PAPERS, 1975-83

1975-76

| | | | |
|--------------------|--------------------------|------|-------------------|
| C.76 | 1975 December-1976 March | C.81 | 1976 August |
| C.77 | 1976 April, May | C.82 | 1976 September |
| C.78 | 1976 June (1) | C.83 | 1976 October |
| C.79 | 1976 June (2) | C.84 | 1976 November (1) |
| C.80 | 1976 July | C.85 | 1976 November (2) |
| C.86 1976 December | | | |

1977

| | | | |
|--------------------|--------------|-------|---------------|
| C.87 | January (1) | C.99 | May (2) |
| C.88 | January (2) | C.100 | June |
| C.89 | January (3) | C.101 | July |
| C.90 | February (1) | C.102 | August (1) |
| C.91 | February (2) | C.103 | August (2) |
| C.92 | March (1) | C.104 | August (3) |
| C.93 | March (2) | C.105 | September (1) |
| C.94 | March (3) | C.106 | September (2) |
| C.95 | April (1) | C.107 | October |
| C.96 | April (2) | C.108 | November (1) |
| C.97 | April (3) | C.109 | November (2) |
| C.98 | May (1) | C.110 | December (1) |
| C.111 December (2) | | | |

Engineering

1978

| | | | |
|-------|--------------|-------|--------------|
| C.112 | January | C.120 | June (2) |
| C.113 | February (1) | C.121 | July |
| C.114 | February (2) | C.122 | August |
| C.115 | March (1) | C.123 | September |
| C.116 | March (2) | C.124 | October |
| C.117 | April | C.125 | November (1) |
| C.118 | May | C.126 | November (2) |
| C.119 | June (1) | C.127 | December |

1979

| | | | |
|-------|--------------|-------|---------------|
| C.128 | January (1) | C.138 | June (2) |
| C.129 | January (2) | C.139 | July |
| C.130 | February (1) | C.140 | August (1) |
| C.131 | February (2) | C.141 | August (2) |
| C.132 | March (1) | C.142 | September (1) |
| C.133 | March (2) | C.143 | September (2) |
| C.134 | April | C.144 | October (1) |
| C.135 | May (1) | C.145 | October (2) |
| C.136 | May (2) | C.146 | November (1) |
| C.137 | June (1) | C.147 | November (2) |

C.148 December

Engineering

1980

| | | | |
|-------|--------------|-------|-----------|
| C.149 | January (1) | C.157 | June |
| C.150 | January (2) | C.158 | July (1) |
| C.151 | February (1) | C.159 | July (2) |
| C.152 | February (2) | C.160 | August |
| C.153 | March | C.161 | September |
| C.154 | April (1) | C.162 | October |
| C.155 | April (2) | C.163 | November |
| C.156 | May | C.164 | December |

1981

| | | | |
|-------|-------------|-------|---------------|
| C.165 | January (1) | C.168 | March |
| C.166 | January (2) | C.169 | April-June |
| C.167 | February | C.170 | July-December |

1982

| | | | |
|-------|--------------|-------|--------------------|
| C.171 | January | C.174 | March |
| C.172 | February (1) | C.175 | April-July |
| C.173 | February (2) | C.176 | September-November |

1983

| | | | |
|-------|-------------------|-------|--------------|
| C.177 | January, February | C.178 | March, April |
| | C.179 | | May |

Engineering

APPEALS AND FINANCE

'Fellowship of Engineering - Appeals Committee 1977/80'

Contents of a folder so inscribed and with a further ms. note 'examined by Lord Hinton 19.11.81'.

| | | | |
|-------|-------------------------|-------|------------------------|
| C.180 | 1977 May | C.190 | 1979 February (1) |
| C.181 | 1977 August-November | C.191 | 1979 February (2) |
| C.182 | 1978 July, August | C.192 | 1979 March |
| C.183 | 1978 September, October | C.193 | 1979 April |
| C.184 | 1978 November | C.194 | 1979 May |
| C.185 | 1978 December (1) | C.195 | 1979 June |
| C.186 | 1978 December (2) | C.196 | 1979 July-October |
| C.187 | 1979 January (1) | C.197 | 1980 February-May |
| C.188 | 1979 January (2) | C.198 | 1980 July-November |
| C.189 | 1979 January (3) | C.199 | Appeal brochure (1980) |

'1 Wolfson Foundation 2 B.P. Energy Research Prize 3 Parliamentary and Scientific Cttee.'

Contents of a folder so inscribed and with a further ms. note 'examined by Lord Hinton - 19.11.81.'

C.200-C.203 Correspondence re possible financial support for the Fellowship from the Wolfson Foundation.

| | | | |
|-------|-------------------|-------|-------------------|
| C.200 | 1978 July, August | C.202 | 1979 July-October |
| C.201 | 1979 March-May | C.203 | 1980 February-May |

Engineering

- C.204 Correspondence re 'BP Energy Research Prize', August-October 1979.
- BP were preparing to launch the prize to stimulate energy research projects in higher education and looked to the Fellowship, together with the Royal Society, to provide a judging panel. Folder includes BP's 'official proposal' to the Fellowship.
- C.205 1 letter only, from Secretary of the Parliamentary and Scientific Committee, 29 December 1978.

Engineering

FINNISTON COMMITTEE OF ENQUIRY INTO THE ENGINEERING PROFESSION

The Secretary of State for Industry (Eric Varley) announced an enquiry into the engineering profession chaired by Sir Monty Finniston on 5 July 1977. Much of the material in Hinton's Finniston Committee files relates to the preparation of the Fellowship's submission to the Committee and the response of the engineering profession in general and the Fellowship in particular to the Committee's report.

See also D.164, D.165.

Correspondence

Contents of Hinton's correspondence files relating to the Finniston Enquiry, 1977-81, 'examined by Lord Hinton - 1/12/81.'

| | | | |
|-------|--------------------------|-------|-------------------------|
| C.206 | 1977 February-November | C.218 | 1980 April |
| C.207 | 1978 January-March | C.219 | 1980 May, June |
| C.208 | 1978 April | C.220 | 1980 July |
| C.209 | 1978 May, June | C.221 | 1980 August |
| C.210 | 1978 July-November | C.222 | 1980 September |
| C.211 | 1979 January, April | C.223 | 1980 October (1) |
| C.212 | 1979 September, December | C.224 | 1980 October (2) |
| C.213 | 1980 January, February | C.225 | 1980 November, December |
| C.214 | 1980 March (1) | C.226 | 1981 January (1) |
| C.215 | 1980 March (2) | C.227 | 1981 January (2) |
| C.216 | 1980 March (3) | C.228 | 1981 March-July |
| C.217 | 1980 March (4) | C.229 | 1981 August-October |

Engineering

Submissions

Contents of a very bulky folder inscribed 'Evidence to Finniston Cttee'.

- C.230 Department of Industry Press Notices, July and December 1977.
- C.231 Submission to the Committee of Inquiry into the Engineering Profession by the Council of the Institution of Electrical Engineers, January 1978.
- C.232 The Institution of Chemical Engineers. A Submission to the Committee of Inquiry into the Engineering Profession. (Supplement to the February 1978 issue of The Chemical Engineer).
- C.233 The Council of Engineering Institutions' Submission to the Committee of Enquiry into the Engineering Profession, May 1978.
- C.234 Evidence to the Committee of Inquiry into the Engineering Profession. Submitted by the Royal Society and the Fellowship of Engineering, September 1978. (Annotated by Hinton.)
- C.235 University of Bath School of Electrical Engineering. Proposals for Support Technology in the 4-Year Industry-Linked Degree, January 1979.
- C.236 Further papers relating to engineering at Bath.
- C.237 Papers relating to technology and industry in Japan, January, February 1979.
- C.238 'Wealth of the Nation - Engineers for an Industrial Future', July 1979. (The Institution of Electrical Engineers.)
- C.239 'Comment by the Institution of Mechanical Engineers on the Report of the Committee of Inquiry into the Engineering Profession', n.d.
- C.240 'Finniston Report', 13 February 1980. 13pp. typescript paper by Hinton.

Engineering

- C.241 'Consideration of the Report of the Committee of Inquiry into the Engineering Profession'.
47pp. transcript of tape-recording of meeting of the Fellowship of Engineering, 3 March 1980. Hinton was in the Chair.
- C.242 Institution of Structural Engineers 'Response to the invitation from the Department of Industry to comment on the recommendations of the Finniston Committee Report', March 1980.

Folder includes press release and letter from President of Institution of Structural Engineers to Secretary of State for Industry (Sir Keith Joseph).
- C.243 'Response to the Department of Industry by the Council of Engineering Institutions on the Report of the Committee of Inquiry into the Engineering Profession', March 1980.
- C.244 Institution of Production Engineers 'Comments on the Report of the Committee of Inquiry into the Engineering Profession', April 1980.
- C.245 'An outline constitution for an engineering authority', April 1980. (Joint submission to Sir Keith Joseph from the four leading engineering Institutions.)
Folder includes press release.
- C.246 'Engineering our future', HMSO, 1980. (Summary of Finniston report.)
- C.247 Copy of Finniston Report. In ring-back binder.
There are 7pp. 'amendments to text', dated 19 November 1979, at the front of the report. This is very probably the advance copy sent to Hinton by Finniston, 14 December 1979 (C.212).
- C.248 Hinton's ms. notes on the Finniston Report (14pp.). Found loose in preceding.

Engineering

- C.249 INSTITUTION OF CIVIL ENGINEERS 1970
- Brief correspondence re draft report on 'The role of Women in Engineering'.
- For Honorary Fellowship and recollections see A.198.
-
- C.250 INSTITUTION OF ELECTRICAL ENGINEERS 1970-72
- Contents of a folder inscribed 'examined by L. Hinton - 15.4.82'.
- 1970 correspondence relates to proposed nuclear power station at Stourport-on-Severn and the I.E.E.'s Centenary celebrations (May 1971).
- In 1971 Hinton was made an Honorary Fellow and in 1972 he agreed to be filmed 'as a permanent record'. The film took the form of a brief address by Hinton. For Hinton's script see A.10.
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- C.251-C.260 INSTITUTION OF MECHANICAL ENGINEERS 1962-83
- Hinton examined his I.M.E. files in April 1982. The surviving material is presented as a chronological sequence.
- C.251 1962-64. Includes correspondence re Presidential succession.
- C.252 1965. 'Thoughts on the proposal for reorganisation of the Institution of Mechanical Engineers on Divisional Lines'. Hinton's 11pp. draft (2 versions).
- C.253 1967-68.
- C.254 1969 April-December. Correspondence etc. re education and training for overseas students of engineering. Includes paper by Hinton for 21 July meeting of Joint Overseas Activities Committee.

Engineering

C.255 1969 June. Report (sent to Hinton by Secretary, I.M.E.) on meeting at Royal Society to consider papers of distinguished modern scientists, and related correspondence.

C.256 1970. Golden Jubilee of National Certificate Scheme; developing countries; green paper on research; history of engineering education in Britain.

C.257 1971. Hinton's completion of fifty years as a member of the Institution and his election as an Honorary Fellow, etc.

C.258 1972. Includes correspondence and papers re membership trends and philosophy.

C.259 1973-81. Includes 'Note of what was said by Mr. J. Bradbury-Williams, Chairman of the Thames Valley I. Mech. E. when presenting Lord Hinton with a small gift on behalf of the panel', 12 January 1976.

C.260 1982-83. Principally social (invitations to Council Dining Club dinners, etc.) and re bust of Hinton.

C.261-C.264 NATIONAL ACADEMY OF ENGINEERING

1976-83

Hinton was elected as a Foreign Associate of the Academy in 1976. This was the first occasion the Academy had elected Foreign Associates.

C.261 1976. Hinton's election; visit of NAE President to Britain.

C.262 1977-78. Invitations to meetings, etc.

C.263 1980-81. Includes correspondence with President NAE on early difficulties of the Academy, its relations with the National Academy of Sciences, the American government and the specialised American Societies and Institutions, etc.

C.264 1983. Includes list of NAE British Foreign Associates.

Engineering

C.265, C.266 NATIONAL ACADEMY OF ENGINEERING (MEXICO) 1977-82

Hinton was elected as Corresponding Member in 1977.

C.265 1977, 1980

C.266 1981-82.

SECTION D HOUSE OF LORDS D.1 - D.176

INTRODUCTION TO SECTION D

| | |
|-------------|--|
| D.1 -D.20 | GENERAL CORRESPONDENCE |
| D.21 -D.107 | EUROPEAN COMMUNITIES COMMITTEE (SUB-COMMITTEE F) |
| D.108-D.127 | EUROPEAN COMMUNITIES COMMITTEE (SUB-COMMITTEE G) |
| D.128-D.142 | SELECT COMMITTEES (PRIVATE BILLS) |
| D.143-D.172 | SPEECHES IN DEBATES |
| D.173-D.176 | PRINTED AND DUPLICATED MATERIAL |

Hinton was made a life peer in 1965 taking the title Baron Hinton of Bankside. He was an active member of the House of Lords taking part in committee work, especially the European Communities Committee (Sub-Committees F and G) and speaking in debate on topics of special interest to him such as engineering and energy.

Although very considerable documentation of Hinton's work in the House of Lords is presented here, the catalogued papers must form only a small fraction of what passed through his hands. In an undated note preserved at D.21, Mrs. P. Ellis, Hinton's secretary, explains the procedure for dealing with papers used at the meetings of Sub-Committees F and G:

House of Lords

'It was not possible to keep all the papers used for House of Lords committee work simply because they were too voluminous. LH therefore decided that in general when the cttee's red report was published ... the background papers could be destroyed. There were cases, however, when papers were retained for various reasons - special comments on them by LH, important information, etc.'

At the request of the receiving repository a further weeding has been undertaken by the present cataloguers so that only those committee papers bearing significant annotation by Hinton have been preserved. When Hinton's annotation has been limited to a brief summation on the cover or title page of a lengthy report only that cover or title page has been retained.

Lord Hinton's interest in the selection and preservation of his own papers is evident from his comments on the original folders of House of Lords material. Examples of these comments are preserved with the committee papers on which he was passing judgement.

House of Lords

GENERAL CORRESPONDENCE, 1968-83

Contents of a very bulky folder inscribed 'House of Lords Miscellaneous'. Includes correspondence and papers from firms and organisations drawing Hinton's attention to legislation of interest to them and providing him with information they thought he ought to have; also correspondence with fellow peers on matters of mutual interest.

- D.1 1968, 1971
- D.2 1972. Correspondence and papers re Green Paper on 'Government Research and Development'; copy of Hinton's letter to Lord Rothschild, 5 December, re 'curiosity oriented research' and 'product oriented research'.
- D.3 1973, January-March. Includes draft speech for debate on White Paper Cmnd. 5174 - 'Education: A Framework for Expansion' and letter from L. Rotherham commenting on draft.
- D.4 1973, April-June. Includes correspondence and papers re freedom of movement of engineers in the European Economic Community.
- D.5 1975. Includes correspondence and papers re Trade Union and Labour Relations (Amendment) Bill and Top Salaries Review Body: Peers' Expenses Allowance.
- D.6 1976, March-May. Includes correspondence and papers re Aircraft and Shipbuilding Industries Bill, Local Government (Miscellaneous Provisions) Bill and new Advisory Council on Applied R and D.
- D.7 1976, June, July. Continuing correspondence and papers re Aircraft and Shipbuilding Industries Bill and Local Government (Miscellaneous Provisions) Bill.

House of Lords

- D.8 1976, October, November. Includes letter from BBC television producer re 'Panorama' programme on future of the House of Lords and photocopy of questionnaire on the subject completed by Hinton.
- D.9 1977. Includes correspondence and papers re Severn Barrage and letter from Hinton commenting on 'Report to the Congress which deals with the American work on development of the Fast Reactor'.
- D.10 1978, March, April. Correspondence and papers re Scotland Bill, Nuffield Foundation study of the role of a Second Chamber within the British Constitution and river water quality.
- D.11 1978, May, November. Correspondence and papers re 'Coal Conference '78' and product liability.
- D.12 1979, October, December. Includes material re acid rain.
- D.13 1980, January. Correspondence and papers re radioactive release from coal-fired power stations.
- D.14 1980, February, March. Correspondence and papers re emissions from power stations and County of Kent Bill.
- D.15 1980, April, May. Correspondence and papers re County of Kent Bill, Licensing Amendment Bill and Gas Bill.
- D.16 1980, July. Correspondence and papers re Local Government, Planning and Land (No.2) Bill.
- D.17 1981, January-June. Includes material re Control of Pollution Act, 1974, and Energy Conservation Bill.
- D.18 1981, August, October, November. Includes completed questionnaires on environmental concerns.

House of Lords

- D.19 1982. Includes completed questionnaire for Review Body on Top Salaries which was seeking information about 'the circumstances in which Peers carry out their Parliamentary duties and Peers' views on the present expenses allowance'.
- D.20 1983

EUROPEAN COMMUNITIES COMMITTEE SUB-COMMITTEE F (Energy, Transport, Technology and Research)

- D.21 Information
- D.22-D.92 Committee papers
- D.93 Minutes
- D.94-D.107 Correspondence.

INFORMATION

- D.21 Note by Mrs. P. Ellis (Lord Hinton's secretary) on Hinton's policy in respect of the retention or destruction of papers used for House of Lords committee work.
- Lists of papers used at Sub-Committee 'F' meetings, 1975-80.

House of Lords

COMMITTEE PAPERS

In the following entries the dates of the committee meetings are given and some indication of the agenda topics represented by the surviving documentation.

1975

- | | |
|------------|---|
| D.22 | January 25. Weight and dimensions of commercial road vehicles. |
| D.23, D.24 | February 19. 'R/3333/74 (New Energy Policy strategy for the Community: Commission targets for 1985 and sectoral guidelines required to attain them)'. 2 folders. |
| D.25 | February 27. 'R/3333/74'. |
| D.26 | March 5. 'R/3333/74'. |
| D.27-D.30 | March 13. 'R/3333/74'. 4 folders. |
| D.31 | March 20. 'R/3333/74'. |
| D.32, D.33 | March 26. 'R/3333/74'. 2 folders. |
| D.34 | April 16. 'R/3333/74'. |
| D.35 | June 19. Annotated agenda only. |
| D.36 | July 17. Technological problems of nuclear safety. |
| D.37 | July 30. Technological problems of nuclear safety; development of energy sources within the Community. |

House of Lords

- D.38 September 18. Lead pollution; pollution of sea water and fresh water for bathing.
- D.39 September 19. Financing of Community energy policy.
- D.40 'Circulation of papers and advance warning of future meetings', dated 3 October 1975, with two papers re Community environment action programme.
- D.41 October 15. Community intervention in the field of air transport and air safety.
Folder includes brief correspondence between Hinton and Civil Aviation Authority, July 1975.
- D.42 'House of Lords Sub-Committee "F" Visit to Brussels, October 1975'.
Contents of a folder so inscribed.
- D.43 November 6. R3333 (Community energy policy).
- D.44 November 20. OECD's Dragon high temperature reactor project.
- D.45 'R/210/75 - Draft Directive on the reduction of water pollution caused by wood pulp mills' and related papers.

1976

- D.46 January 15. Hinton's ms. note only.
- D.47 March 3. Energy policy.
- D.48 March 11. 'Further consideration of Aeronautical Programme'.
- D.49 March 18. Site for the Joint European Torus (JET).

House of Lords

- D.50 April 1. Siting of JET.
- D.51 September 30. '1977-80 Multi-annual programme for the Joint Research Centre'.
- D.52 Further papers on Joint Research Centre (contents of a plastic folder) kept with preceding.
- D.53 October 21. Carriage of goods by road; inland waterways.
- D.54 'Background papers re visit to Ispra - 8-11 November 1976'.
Contents of a folder so inscribed.
- D.55 November 25. 'J.R.C. Multi-annual Programme'.
- D.56 December 9 (Joint meeting with Sub-Committee G). 'JRC Multi-Annual Programme'.

1977

- D.57 January 21. European R&D Policy.
- D.58 February 2. EEC Energy Policy.
- D.59 'Visit to Brussels by Members of Sub-Committee F - March 77'.
Contents of a folder so inscribed.
- D.60 March 31. EEC Energy Policy.
- D.61 July 21. EEC R&D Policy.
- D.62-D.65 November 11. EEC R&D Policy.
4 folders.

House of Lords

1978

- D.66 February 23. Fast breeder reactors; reprocessing of irradiated nuclear fuels.
- D.67 May 18. EEC Coal Inquiry.

1979

- D.68 'World Energy Supply and Demand up to 2020 A.D.'
Hinton's 17pp. typescript paper (with ms. corrections) 'For H of L Sub-Committee F', 10 January. Folder also includes typescript 'Data from Energy 2020' and 'Energy Projections 1979', and ms. notes on 'Uranium Resources and Demand in the EEC', 'Uranium Prices', etc.

1980

- D.69 April. EEC Transport Policy.
- D.70 July 24. Biomolecular Engineering.
- D.71 [October 9]. Community Energy Policy.
- D.72 October 30. Community Energy Policy.
- D.73 November 13. Community Energy Policy.
- D.74 November 27. Community Energy Policy.
- D.75 [December 17]. Gas Appliances; Nuclear Power Industry.

House of Lords

1981

- D.76 [May 7]. Community Energy Policy.
- D.77 July 2. Public Transport; Electricity Supply.
- D.78 [October 21]. Community Energy Policy.
- D.79 [October 29]. Community Energy Policy.
- D.80 November, December. Community Energy Policy.

1982

- D.81 February 18, March 4 and 18. Raw materials.
- D.82 March 25, May 6. Raw materials.
- D.83 June 17. Annotated agenda only.
- July 18. Hinton's ms. comments on strategic materials in respect of a meeting he was unable to attend.
- D.84 October 14 and 21. Rational use of energy.
- D.85 November 11, 18 and 25. Rational use of energy.
- D.86 December 2, 9 and 16. Rational use of energy.

1983

- D.87 February 3 and 17. The role for coal in Community energy strategy.
- D.88 March 3, 10 and 17. Coal in Community energy strategy.

House of Lords

- D.89 Miscellaneous coal papers, February, April 1983.
- D.90 March. Regulations controlling use of road vehicles in the United Kingdom.

Miscellaneous

- D.91, D.92 Miscellaneous committee papers unattributed as to meeting.
Topics include oil supply problems, natural gas, strategic minerals and rational use of energy.
2 folders.

MINUTES

- D.93 Minutes of Sub-Committee F meetings, 25 November 1976 and 17 February 1977, annotated by Hinton.

CORRESPONDENCE

Hinton's correspondence with clerks, peers and expert advisers in respect of his work on Sub-Committee F.

- D.94 1974, December - 1975, July. Includes invitation to serve on Sub-Committee C (education, employment and social health) and Hinton's reply suggesting that the Sub-Committee on which he could be most useful was that dealing with energy, i.e. Sub-Committee F; also correspondence on 'R/3333/74 EEC Energy Policy Strategy'.
- D.95 1976, October-December. Includes correspondence re energy policy and Joint Research Centre.

House of Lords

- D.96 1977, January-May. Includes Hinton's 'Questions for Sir Brian Flowers' (in his capacity as President of the European Science Foundation), 'Note on draft report on EEC Energy Policy' and 'Notes on Mr. Thorley's Draft Table (Appendix 1)'. (C.G. Thorley was Specialist Adviser, House of Lords, 1975-79.)
- D.97 1977, June, July. Includes Hinton's 'Notes on draft report on EEC R & D Policy'.
- D.98 1977, November, December. Includes Hinton's 'Suggested Conclusions on R & D in EEC', 'Notes for the Committee "F" Enquiry into the Coal Industry', and 'The Energy Resources and Requirements of Greece, Portugal and Spain' (ms. and typescript drafts).
- D.99 1978, January-March. Includes Hinton's notes on 'President Carter's Nuclear Policy' and 'Thorium in the Nuclear Power Cycle'.
- D.100 1978, April-October. Includes correspondence and papers re proposed visit to Brussels.
- D.101 1978, December-1979, March. Includes correspondence and papers re 'Energy Objectives for 1990' and small hydroelectric units.
- D.102 1979, April, May. Correspondence and papers re 'Energy Objectives for 1990'.
- D.103 1979, June, October-December. Includes correspondence and papers re 'Fusion Report'.
- D.104 1980, January-August. Includes correspondence and papers re 'Energy Objectives for 1990' and biomolecular engineering.
- D.105 1981, February-December. Includes correspondence and papers re Information Technologies and 'Combined Transport'.
- D.106 1982. Includes correspondence and papers re strategic minerals.
- D.107 1983, January-May. Principally Hinton's comments on draft minutes.

House of Lords

EUROPEAN COMMUNITIES COMMITTEE SUB-COMMITTEE G (Environment)

| | |
|-------------|------------------|
| D.108 | Information |
| D.109-D.122 | Committee papers |
| D.123-D.127 | Correspondence |

INFORMATION

| | |
|-------|--|
| D.108 | Lists of papers used at Sub-Committee 'G' meetings, 1975-81. |
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COMMITTEE PAPERS

In the following entries the dates of the committee meetings are given (where known) and some indication of the agenda topics represented by the surviving documentation.

1981

| | |
|-------|--|
| D.109 | [February 2]. Asbestos. |
| D.110 | March 17. Oil pollution of the sea. |
| D.111 | May 19. Discharge of cadmium into the aquatic environment; wastes from the titanium dioxide industry; participation by the EEC in the Action Plan for the Mediterranean. |
| D.112 | June 23. Discharge of cadmium into the aquatic environment; wastes from the titanium dioxide industry. |

House of Lords

- D.113 October 13. Recycling and reuse of containers of liquid for human consumption; enforcement, in respect of shipping using Community ports, of international standards for shipping safety and pollution prevention.
- D.114 October 27. Recycling and reuse of containers of liquid for human consumption.

1982

- D.115-D.119 Committee papers and notes by Hinton on the polluter pays principle, October-December and n.d.
5 folders.

1983

- D.120-D.122 Committee papers (including 'Suggested changes to draft report by Lord Hinton of Bankside') on the polluter pays principle, etc., January-March.
3 folders.

CORRESPONDENCE

Principally correspondence with clerks respecting committee business.

- D.123 1978, June. Includes Sub-Committee G's draft report re protection of groundwater.
- D.124 1980, November - 1981, November.
- D.125 1981, December - 1982, October.
- D.126 1982, October, November. Includes Hinton's 'Alternative Thoughts on Pollution Control'.
- D.127 1983, January-May. Includes note by Hinton on 'Sewage Disposal'.

House of Lords

SELECT COMMITTEES (PRIVATE BILLS)

D.128-D.134 'House of Lords - Select Committees'.

Contents of a folder so inscribed and with further ms. inscription
'Examined by Lord Hinton - Dec. '81'.

D.128 Turbary Lands in the County of Dorset.

Correspondence, April-September 1972.

D.129 Kensington and Chelsea Corporation Bill.

Minutes of evidence, 2 May 1972 (2pp. only).

D.130 Maplin Airport Bill.

Brief correspondence only, July 1973.

D.131 Portland Bill.

Brief correspondence, March, April 1974; 4pp. 'Suggested Amendments'
with Hinton's ms. note 'The whole Bill was disallowed'.

D.132 County of South Glamorgan Bill.

Correspondence, etc., May, November, December 1975.

D.133 Tyne and Wear Bill.

Minutes of evidence, 4 May 1976 (4pp. only).

D.134 Four Counties Bills.

Lord Hinton's 'Opening Remarks' as chairman; minutes of evidence
(4pp. only); 'Record of advice on the Four Counties Bills received
from Lord Aberdare'; brief correspondence, March-May 1978.
See also D.159.

D.135-D.142 Lancashire Bill.

Hinton served as Chairman of the Lancashire Bill.

D.135, D.136 Correspondence, March-October 1982. 2 folders.

D.137-D.142 'Lord Hinton's Working Papers and Briefing material'.
6 folders. A note by Hinton's secretary dated 6 July 1983 explains
the survival of the material: 'Normally most of this would be destroyed
- it has not been done as the Bill has not yet been debated. (This
was put off due to Gen. Election)'.

House of Lords

SPEECHES IN DEBATES

Although Hinton was created a life peer in 1965, the extant material covers his contributions to the House's debates 1970-82 only. These are principally typescript drafts for speeches; other significant material is noted in the entries which also give the date of the debate and some indication of topic.

1970

D.143 March 4. Pearson Report; help for developing countries.

1972

D.144 February 29. Green Paper on 'Government Research and Development'.

1973

D.145 February 28. 'The need for a National Energy Plan in relation to Britain's entry into the EEC and the increasing inadequacy of world energy supplies'.

D.146 March 29. White Paper Cmnd. 5174 - 'Education: A Framework for Expansion'.

Folder includes annotated copy of White Paper and brief correspondence arising from debate.

D.147 July 19. 'Speech for Dinordwic (North Wales Hydro Electric Power Bill) if necessary'.

Folder includes printed and duplicated background material.

1975

D.148 February 12. 'Energy Conservation'.

D.149 July 22. Second Special Report of the Select Committee on the European Communities.

D.150 December 2. EEC Commission plans for energy supplies to 1985.

House of Lords

1976

- D.151-D.153 January 29. Technological Problems of Nuclear Safety.
Includes correspondence and background material.
- D.154 April 1. Environment (disposal of effluents and other wastes).
- D.155 May 18. Joint European Torus (JET).
Folder includes brief correspondence and printed background material.
- D.156, D.157 December 22. Sixth Report of the Royal Commission on Environmental
Pollution (Flowers' Report). 2 folders.
D.157 contains related correspondence, October 1976-January 1977.
See D.174.

1978

- D.158 February. Research and Development in the EEC.
- D.159 July 17. Report on Opposed Clauses of Local Government Private
Bills.
Folder includes correspondence with clerks and peers, June, July.
See also D.134.

1979

- D.160 January 23. Coal.
Folder includes letter from Chairman of National Coal Board.
- D.161 January 24. Amenity.
Folder includes related correspondence.
- D.162 March 7. 'To draw attention to the need for revising the current
provisions of the energy programme and the prices and incomes control
programmes in the light of recent events in Iran'.
Typescript draft has ms. note 'L. Hinton ill with influenza speech used
by L. Sherfield'. Folder also includes brief correspondence with
Lord Halsbury and 'Data from Energy 2020'.

House of Lords

- D.163 October 23. Construction Products.
Folder includes related correspondence. See also D.175.

1980

- D.164, D.165 February 27. Finniston Report.
- D.164 Includes 13pp. note on the Finniston Report dated 13 February.
- D.165 Correspondence with engineers and engineering organisations,
February, March.
- For further material on the Finniston Report, see C.206-C.248.
- D.166 March 19. Energy Conservation.
- Folder includes related correspondence and background material.

1981

- D.167 March 9. Industry Bill.

1982

- D.168, D.169 October 21. Natural Gas.
- D.168 Folder includes ms. notes by Hinton and correspondence
with Lord Kings Norton, the mover of the motion for debate.
- D.169 Printed and duplicated background material.
- D.170-D.172 December 8. Fast Reactor.
- D.170 Folder includes 'Second draft' of speech with ms. note
'Superseded' and 'Sketch of Opening Speech to be reduced as other
speakers indicate they will deal with the points made'.
- D.171 Correspondence with Lord Halsbury re organising of the
debate; Hinton's ms. notes; background material.
- D.172 Correspondence with W. Marshall and P.B. Hirsch re fast
reactor policy and design.

House of Lords

PRINTED AND DUPLICATED MATERIAL

- D.173 Duplicated copy of Hinton's evidence before House of Commons Select Committee on Estimates (Sub-Committee B), 22 April 1959.
- D.174 Sixth Report on Nuclear Power and the Environment of the Royal Commission on Environmental Pollution.
Hinton's annotated copy with loose ms. and typescript items.
- D.175 Report of the Select Committee on the European Communities on Construction Products, 1979, with some loose items.
- D.176 Report of the Select Committee on the European Communities on EEC Energy Policy, 1980.
Title page has note of Hinton's comment on this report.

SECTION E UNIVERSITY OF BATH E.1 - E.65

INTRODUCTION TO SECTION E

| | |
|-----------|-------------------------------|
| E.1 -E.7 | GENERAL CORRESPONDENCE |
| E.8 -E.10 | DEVELOPMENT APPEAL |
| E.11-E.14 | APPOINTMENTS |
| E.15 | CONVOCATION |
| E.16 | UNIVERSITY COURT |
| E.17-E.19 | DEGREE CONGREGATIONS |
| E.20-E.65 | SPEECHES, ADDRESSES, WRITINGS |

When the Bristol College of Science and Technology became the new 'University of Bath, A Technological University' in 1965, Hinton was invited to become its first Chancellor. He had doubted the wisdom of the Robbins Report which recommended that Colleges of Advanced Technology should have university status and it is apparent that he never lost this doubt. He later regretted the removal of the words 'A Technological Univesity' from Bath's title. He hesitated to accept the Chancellorship; however, once he had decided to do so, he became a staunch supporter of the University and worked tirelessly for it until his retirement fifteen years later.

University of Bath

One of his first tasks was to help with the appeal which was launched in 1965 for funds to build student residential accommodation and other facilities. Hinton gave invaluable support to this appeal and personally approached leading industrialists asking for donations (E.8-E.10).

The quality of his formal addresses was recognised by the University which arranged for the publication of his Installation Address and his yearly speeches at Degree Congregations. A copy of the volume, published after Hinton's retirement under the title 'Some Speeches of a Chancellor', is included at E.65. In his preface the then Vice-Chancellor, Professor P.T. Matthews, wrote: 'Throughout this period Lord Hinton exerted a profoundly beneficial influence on the University, not least through the special flavour which he gave to its ceremonies through the dignity of his presence'.

In addition, Hinton spoke on many other occasions: informal talks to the students, speeches proposing the toast of the Honorary Graduates, speeches at meetings of the Court and of Convocation, and at the Peppercorn Rent ceremonies. Drafts and notes for these speeches, showing the same careful preparation and ever present concern for the future of Britain, the part the students would play in it, and the qualities they would need in life, are to be found in items E.20-E.64

University of Bath

GENERAL CORRESPONDENCE 1965-83

Hinton's correspondence with Vice-Chancellors, academic staff, students and others about the general affairs of the university.

- E.1 1965-66. Hinton's acceptance of invitation to become Chancellor (March 1965); presentation of a mace to the new university by the Goldsmiths Company; the title of the new university.
- E.2 1968. Includes correspondence re proposed address to the student body on 'Student Responsibility' and re title of the university.
- E.3 1969. Includes continuing correspondence re address to student body (which took place in February) and re title of the university.
- E.4 1970-73
- E.5 1974-77. Includes correspondence and papers re student grants campaign and disinvestment in South Africa.
- E.6 1978-81. Hinton offered his resignation from the Chancellorship in February 1980.
- E.7 1982-83

DEVELOPMENT APPEAL 1966-68

An appeal was organised with Hinton's active support to raise money to provide the new university with residential accommodation and communal buildings.

- E.8 1966, April-June. Correspondence with university officers and industrialists re appeal. Includes draft text for appeal brochure.
- E.9 1966, June-1968 January. Continuing correspondence with university officers and industrialists re appeal. See also E.21.

University of Bath

- E.10 Copies of The Proposed University of Bath, A Technological University (1965) and The Proposed University of Bath, A Technological University, Development Appeal (n.d.).

APPOINTMENTS 1967-69, 1975-76

Correspondence re appointment of new Vice-Chancellors.

- E.11-E.13 1967-69
 3 folders.

- E.14 1975-76

CONVOCATION 1969-79

- E.15 Correspondence and papers re meetings of Convocation, including agendas, a report by the chairman of the graduates' standing committee on the effectiveness of Convocation (1970) and Convocation Newsletter no.3. Hinton gave the Convocation Address in January 1975 on 'The decline in British industrial pre-eminence'.

UNIVERSITY COURT 1970-79

- E.16 General correspondence re meetings; agendas 1970 and 1975, annotated by Hinton.

University of Bath

DEGREE CONGREGATIONS 1969-80

Hinton's correspondence with Vice-Chancellors and others re arrangements.

- E.17 1969-74. Includes lists of honorary graduates, 1966-79.
- E.18 1975-76. Includes background material and drafts for 1976 congregation address.
- E.19 1977-80

SPEECHES, ADDRESSES, WRITINGS

1965

- E.20 'A University of Technology: The New Concept'
Hinton's foreword for book on the new University of Bath by G. Walters; brief related correspondence.

1966

- E.21 'Appeal Luncheon, Bath University, June 29th'. 6pp. typescript.
- E.22 'Speech at Induction Ceremony', November. 11pp. typescript.
Hinton's address on the occasion of his induction as first Chancellor of the university. Folder also includes press-cutting. See K.22.
- E.23 'Reply to Sir Eric Ashby proposing toast of university', November. 6pp. typescript.
- E.24 'Honorary Graduates'. 4pp. typescript.
- E.25 'Replies to Questions from the Bath University Union Newspaper', November. 3pp. typescript.

University of Bath

1967

- E.26 'Notes for talk to students at Bath', 12 October. 11pp. typescript.
- E.27 'Speech for Degree Day', 13 October. 8pp. typescript.
- E.28 'Notes for talk at Bath', October. 9pp. typescript with ms. corrections and additions.

1968

- E.29 'Bath University Degree Day', 18 October. 8pp. typescript.
- E.30 'Speech for the Opening of Physics and Materials Second Building by the Speaker', 23 November. 1p. typescript.
- E.31 'Speech for Bristol Prize Day', November. 6pp. typescript.
Hinton's speech on the occasion of his presenting the prizes and awards in electrical engineering at Bristol Technical College.

1969

- E.32 'Presentation Speech to Dr. Moore on his Retirement', 27 June. 5pp. typescript.
Moore was the first Vice-Chancellor of the University of Bath.
- E.33 'Notes for meeting of Convocation', 4 July. 5pp. typescript.
- E.34 'Notes for meeting of Court', 4 July. 6pp. typescript.
- E.35, E.36 'Bath Degree Ceremony', 24 and 25 July. 10pp. and 5pp. typescript. 2 folders.

University of Bath

1970

- E.37 'Speech for Court', 3 July. 5pp. typescript.
- E.38 'Speech for Convocation', 4 July. 3pp. typescript.
- E.39 'Degree Day', 10 July. 11pp. typescript.
- E.40 'Degree Day - Autumn', 19 November. 15pp. typescript.

1971

- E.41, E.42 'Degree Day' addresses, 8 and 9 July. 14pp. and 9pp. typescript.
2 folders.
- E.43 'Notes for the meeting of the Court', 15 December. 2 copies
(different format), 16pp. and 5pp. typescript.
Folder also includes press-cutting from the THES, 17 December,
reporting Hinton's address under the heading 'Graduates will only
find "sub-professional" jobs'.

1972

- E.44 'Payment of Peppercorn Rent', 29 June. 5pp. typescript.
- E.45, E.46 'Degree Day' addresses, 29 and 30 June. 18pp. and 16pp.
typescript.
2 folders.

1973

- E.47, E.48 'Degree Day' addresses, July. 21pp. and 20pp. typescript.
2 folders.
- E.49 'Introduction to Convocation Lecture to be given by Sir Frederick
Dainton', 1 November. 10pp. typescript.

University of Bath

1974

- E.50-E.52 'Degree Day' addresses, 3, 4 and 5 July. 20pp., 16pp. and 14pp. typescript.
3 folders.

1975

- E.53 'Convocation Lecture', 6 May. 2 copies both 24pp. typescript, one with ms. additions.

This lecture on the decline in British industrial pre-eminence was first given at a seminar in Oxford, 3 December 1973.

- E.54 'Degree Day' address, 9, 10 and 11 July. 28pp. typescript.
Folder also includes brief related correspondence.

- E.55 'Peppercorn Rent Ceremony', 22 December. 5pp. typescript.

1976

- E.56 'Chancellor's speech at Bath Degree Congregations', 30 June-2 July. 24pp. typescript.

Folder also includes brief correspondence arising and University of Bristol Gazette, October 1976, with related article.

- E.57 'Toast to the Honorary Graduates', July. 16pp. typescript.
Hinton paid tribute to the retiring Vice-Chancellor, L. Rotherham, who was one of the honorary graduates.

1977

- E.58 'Speech for Bath Degree Congregations', July. 24pp. typescript.

- E.59 'Speech for meeting of Convocation', 15 October. 4pp. typescript.

University of Bath

1978

- E.60 'Speech for Bath Degree Congregations', June. 15pp. typescript.
- E.61 'Peppercorn Rent Ceremony', 19 December. 5pp. typescript.

1979

- E.62 'Chancellor's Speech for the University of Bath's Degree Congregations', 27-29 June. 23pp. typescript.

1980

- E.63 'Notes for Lord Hinton to use at meeting of Convocation', 12 April. 5pp. typescript.
- E.64 'Chancellor's Speech for the University of Bath's Degree Congregations', 24-27 June. 18pp. typescript.
- E.65 Some Speeches of a Chancellor, Bath University Press, 1981.

THE ROYAL COMMISSION ON HISTORICAL MANUSCRIPTS

Report on the correspondence and papers of
CHRISTOPHER HINTON,
BARON HINTON OF BANKSIDE
(1901-1983)
engineer

Vol II

deposited in the
Institution of Mechanical Engineers

Reproduced for the Contemporary Scientific Archives Centre
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CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE

under the guidance of the Royal Society's

British National Committee for the History of Science, Medicine and Technology

Catalogue of the papers and correspondence of

CHRISTOPHER HINTON OM, KBE, FRS, FEng

BARON HINTON OF BANKSIDE

(1901 - 1983)

Compiled by:

Jeannine Alton

Peter Harper

Margaret Erskine

VOLUME II

Sections F - K

Index

Deposited at The Institution of Mechanical Engineers, London

1986

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| | |
|-------------|--|
| SECTION F | LECTURES AND PUBLICATIONS F.1 - F.228 |
| F.1 -F.109 | SPEECHES AND LECTURES |
| F.110-F.113 | RADIO AND TELEVISION |
| F.114-F.141 | ARTICLES |
| F.142-F.198 | BOOKS |
| F.199-F.207 | BOOK REVIEWS |
| F.208-F.212 | LETTERS TO THE PRESS |
| F.213-F.228 | CORRESPONDENCE WITH PUBLISHERS AND EDITORS |

SPEECHES AND LECTURES

Hinton was in great demand as a speaker on formal occasions such as the presentation of prizes and awards, the opening of power stations and other new buildings, conferences and named lectures, and also at more informal gatherings such as annual dinners of engineering and other organisations. The material here is of this kind. It should be noted that Hinton's lectures and speeches for specific occasions and organisations are to be found in the relevant Section of the catalogue. See especially Sections B, C, D and E. Of more personal interest is the speech for the dedication of the church hall which Hinton had had built for Tisbury, the village where he was born (F.97).

The material is presented chronologically as far as possible; F.10-F.19 are a group of lectures on the specific topic of 'Design, research and organisation' given over a period of years and kept together by Hinton.

Continued

Lectures and publications

Many lectures are accompanied by correspondence, and some by related material. Unless otherwise stated, the material is in typescript. Hinton often added ms. corrections and amendments, and sometimes later comments.

- F.1 'Engineering as a service to industry', n.d.
12pp. draft with ms. corrections, and ms. notes on back of last page; and with a ms. headnote 'I think it was written during the War: a lecture to the Managers in the N.W. region'.
- F.2 'Design and development', speech delivered to the Institute of Industrial Administration, April 1951.
6pp. draft with ms. corrections.

'Speech for dinner of Institute of Welding', early 1950s.
4pp. draft with ms. corrections and comment.
- F.3 'Atomic Energy Developments in Great Britain', lecture to American Atomic Energy Forum, 31 October 1953.
10pp. photocopy of draft with ms. corrections.
- F.4 'Draft speech for Manchester College of Technology', November 1954.
4pp. draft with ms. corrections.
- F.5 'Speech for Prize Giving. Northwich Grammar School', 17 December 1955.
5pp. draft with ms. corrections and comment.
- F.6 'Speech to British Electrical and Allied Industries Research Association (Annual lunch)', 1 May 1957.
10pp. draft with ms. corrections and comment.
- F.7 'Outline for a talk at the British Association conference on the supply of scientists and technologists' at Leeds, 5 July 1957.
3pp. draft.

Lectures and publications

- F.8 'Central Electricity Generating Board. Statement of Organisation Policy made on 26th November 1957'.
3pp. report of a speech by Hinton.
- F.9 'Industrial power of the future', Trueman Wood Lecture delivered to the Royal Society of Arts, 19 March 1958.
14pp. draft with ms. corrections; figures. In original folder inscribed 'For the children!'
- F.10-F.19 'Design, research and organisation', 1961-68.
Contents of a folder so inscribed. Hinton's grouping of these lectures has been preserved, and material relating to them added.
- F.10 'The problems of organisation and management of large-scale industrial innovations', lecture at London School of Economics and Political Science Seminar on Problems of Industrial Administration, 31 January 1961. The lecture was also given at the Electrical Power Engineers' Association Annual School, Torquay, 13 October 1963. See F.12.
9pp. and 15pp. drafts; 3pp. revised opening section for delivery to Technical Group of the State Electricity Commission of Victoria, Melbourne, 26 October 1962.
- F.11 'The organisation of research', address given at the conference on 'Management development in an expanding and rapidly changing economy', Administrative Staff College, Henley, 12 July 1961.
12pp. draft with ms. corrections and comment.
- F.12 'Design and research', presidential address to the British Electrical Power Convention, Torquay, 17 June 1963.
Published text only.
- F.13 'Design', lecture delivered at the Coombe Lodge Further Education Staff College course on 'Education and training of technological designers', 10 January 1964.
12pp. draft with ms. correction and comment.
- F.14 Presidential address to the Institution of Mechanical Engineers, 5 November 1964.
48pp. draft with ms. corrections.

Lectures and publications

- F.15 'Overseas assistance', article for the Electricity Council's magazine, January/February 1968.
10pp. draft with ms. corrections, labelled 'superceded'; 6pp. draft; published text; brief correspondence, July, August 1967.
- F.16, F.17 'The place of the engineer in the development of a country', opening address at Centenary Congress of Canadian Engineers, 29 May 1967.
F.16 29pp. draft; 20pp. draft with ms. corrections; text as published in Engineering Journal, June 1967.
- F.17 Correspondence, including invitation to speak and reactions to the speech. Also includes two papers sent to Hinton in response to the speech.
- F.18, F.19 'The engineering profession in the developing countries', lecture delivered at the 150th anniversary conference of the Institution of Civil Engineers, 1968.
F.18 28pp. photocopy of draft, with ms. corrections; 30pp. draft; published text reprinted from Engineering Societies in the Life of a Country, 1968.
- F.19 Correspondence re Hinton's article (same title) for the Central Office of Information, including carbon copy of draft, June 1968, and letter of thanks for giving lecture, August 1968.
- F.20 'The problems of electricity transmission', lecture given at a conference on 'Rubber and plastics in cables' organised by the Plastics Institute and the Institution of Electrical Engineers, 1 March 1961.
Text as published in the Transactions of the Plastics Institute, June 1961.
- F.21 'Electrical power in England and Wales', the Reginald Mitchell Memorial Lecture, 15 November 1961.
14pp. draft with ms. corrections and comment; figures; text as published by the CEGB, 1961.

Lectures and publications

- F.22 Speech at official opening of CEGB Leatherhead laboratories,
10 May 1962.
3pp. draft with ms. comment.
- F.23 Speech in reply to the toast of the honorary graduates, University of
Southampton dinner, 11 May 1962.
8pp. draft with ms. corrections and comment.
- F.24 'Notes for Chairman's Speech' at press conference on Annual Report
of CEGB for 1961/62, 18 September 1962.
8pp. (photocopy).
- F.25 Notes for address at a meeting with the Parliamentary Labour Party
Fuel and Power Group at Bankside House, London, 27 March 1963.
10pp. draft with ms. corrections and comment; 1p. 'Supporting Notes';
figures.
- F.26 'Patterns of growth: the gas and electricity supply industries', centenary
address at the annual general meeting of The Institution of Gas Engineers,
May 1963.
Published text only.
- F.27 Speech delivered at opening of Ffestiniog Pumped Storage Power
Station, 10 August 1963.
3pp. draft with ms. corrections and comment 'sentimental value only'.
- F.28 Speech delivered at British Electrical Power Convention annual dinner
at Eastbourne, 24 June 1964.
7pp. ms. notes, with 1p. typescript note identifying the material.
- F.29 Speech on science and technology, early 1965.
5pp. draft (carbon).
- F.30 Speech delivered at dinner of the Association of Consulting Engineers,
March 1965.
6pp. ms. notes.

Lectures and publications

- F.31 'The potential contribution to electricity generation of hydro-electric power and nuclear energy', 1965.
Text as published in Advancement of Science, September 1965, with ms. comment 'the only really bad lecture I have given'.
- F.32 Speech delivered at Nottingham, Derby and Lincoln Society of Architects dinner, 23 November 1965.
7pp. draft (carbon) with ms. corrections.
- F.33 Speech delivered at the prizegiving ceremony of Kingsdale School, 26 November 1965.
7pp. draft (carbon).
- F.34 Speech to the Winnington Hall Club, 15 April 1966.
6pp. draft (carbon), notes only.
- F.35 Speech delivered at the opening of Dungeness nuclear power plant, 26 May 1966.
10pp. draft (carbon).
- F.36 Address delivered to the Fellowship Club, Walton on Thames, 1 June 1966, on the growth of total energy demand.
9pp. draft.
- F.37 'The uses of nuclear power in Britain', lecture for the Commonwealth-American Current Affairs Unit at Jesus College, Oxford, 13 July 1966.
18pp. draft (carbon) with ms. corrections.
- F.38 'Good management: the foundation of good technology', presidential address delivered at an Ordinary Meeting of the Institution of Mechanical Engineers, 5 October 1966.
Advance copy of published text.

Lectures and publications

- F.39 'Note for opening of Junior Institution of Engineers building', November 1966.
4pp. draft.
- F.40 Speech delivered at the Institution of Mechanical Engineers annual dinner, 17 November 1966.
18pp. draft with ms. comment; 26pp. photocopy with ms. corrections.
- F.41 Address (on engineering) delivered at Woolwich Polytechnic, 17 February 1967.
11pp. draft with ms. corrections.
Folder also includes 13pp. draft with ms. corrections, entitled 'Lecture to graduates and students' and dated 1966-67 (a slightly longer version of above).
- F.42 Closing address delivered at conference on 'Pre-stressed concrete pressure vessels', 17 March 1967.
9pp. draft with ms. corrections.
- F.43 Address on receiving honorary fellowship of the Institute of Welding, 1 November 1967.
6pp. draft with ms. corrections.
- F.44 Speech delivered to the Risley Nuclear Engineering Society, 16 February 1968.
7pp. draft (carbon) with ms. corrections.
- F.45 Speech delivered to the School of Pharmacy, Bristol, 29 February 1968.
4pp. draft (carbon).
- F.46 Speech delivered to the Engineering Society, University College of South Wales and Monmouth, 1 March 1968.
8pp. draft, last page inscribed with ms. summary of speech.

Lectures and publications

- F.47 'Introduction to Lord Penney' at the Institution of Electrical and Electronics Technician Engineers, 11 March 1968.
4pp. draft, with ms. corrections, last page inscribed with ms. summary of speech.
- F.48 Vote of thanks to the President of the Institution of Mechanical Engineers, 17 April 1968.
2pp. draft (carbon) with ms. corrections.
- F.49 Speech for prize day of Bristol Technical College, November 1968.
6pp. draft with ms. corrections.
- F.50 'Engineering in a changing world', the Allerdale Wyld Lecture, delivered to the West Cumberland Technical Society, November 1968.
26pp. draft (carbon).
- F.51 Speech closing symposium on nuclear safety and siting, 28 March 1968.
4pp. draft (carbon).
- F.52 'James Watt', lecture delivered to the Institution of Mechanical Engineers as part of the Watt and Arkwright bicentenary celebrations, 10 July 1969.
16pp. photocopy; text as published; brief correspondence re celebrations, August 1968.
- F.53 Speech delivered at prize day of St. Dunstan's College, 12 July 1969.
8pp. draft (carbon).
- F.54 Speech to have been delivered at University College, 30 October 1969 (not given as Hinton was in Pakistan).
3pp. draft (carbon), notes only.
- F.55 'Professional Training', speech delivered at a closed conference of the Institution of Mechanical Engineers, 17 November 1969.
5pp. draft (carbon).

Lectures and publications

- F.56 Speech delivered at the Electrical Research Association annual lunch, 29 April 1970.
18pp. draft with ms. corrections.
- F.57 'The Sources of Energy in the Later Twentieth Century', lecture delivered at the Imperial Defence College, 5 June 1970.
See F.62 for a later version of this lecture.
19pp. draft (carbon).
- F.58 Speech delivered to Forum at University College, London, 12 November 1970.
13pp. draft with ms. corrections, last page inscribed with ms. summary of speech.
- F.59 Speech delivered at the Institution of Mechanical Engineers Graduates' and Students' conference dinner, 20 November 1970.
11pp. draft with ms. corrections.
- F.60 'National Certificates', speech delivered to the Institution of Mechanical Engineers National Certificate and Diploma Schemes Golden Jubilee dinner, 15 December 1970.
21pp. draft with ms. corrections; menu.
- F.61 Speech delivered at the opening of new physics and computer buildings, R.R.E. Malvern, 30 April 1971.
16pp. and 13pp. drafts; commemorative booklet.
- F.62 'The Sources of Energy in the Later Twentieth Century', lecture delivered at the Royal College of Defence Studies, 7 June 1971.
See F.57 for an earlier version of this lecture.
24pp. draft with ms. corrections.
- F.63 'Looking back', lecture delivered at the Central Electricity Research Laboratory, Leatherhead, 24 September 1971.
17pp. draft (carbon); correspondence re arrangements, August 1970-September 1971.

Lectures and publications

- F.64-F.66 'World Sources of Energy in the late Twentieth Century', the 17th Graham Clark Lecture of the Council of Engineering Institutions, delivered 30 September 1971 (modified version of F.57). Hinton had been asked to deliver this lecture in 1969 (see F.149, F.150).
- F.64 29pp. draft (carbon); text as published by CEI.
- F.65 Correspondence re arrangements for lecture, comments on Hinton's draft, pre-printing of text, requests for copies, etc., June 1970-October 1971.
- F.66 Programme of Vth International Congress of Engineers (concurrent with lecture); list of invitations to attend lecture; poster; information sheet re lecture sent to Hinton.
- F.67 'What price amenity?', lecture to have been delivered at the University of Kent, 17 December 1971. Hinton later declined the invitation stating he was 'devoid of new ideas'.
22pp. draft; brief correspondence, September 1971-January 1972, including invitation to give lecture, arrangements, and Hinton's eventual withdrawal.
- F.68 Speech delivered at the unveiling ceremony of Hinton's portrait at the Institution of Mechanical Engineers, 25 May 1972.
4pp. draft (carbon).
- F.69 Speech delivered at the Good Housekeeping Presentation, Stourport Transmission District of the CEBG, 28 September 1972.
7pp. draft.
- F.70 Speech delivered at the Good Housekeeping Presentation, Thornhill Power Station, CEBG, 10 October 1972.
14pp. draft (carbon); programme.
- F.71 Speech delivered at the 8th Universities Power Engineering Conference dinner, Bath, 3 January 1973.
12pp. draft with ms. corrections.

Lectures and publications

- F.72 Speech delivered at the presentation to E. J. Turner on his retirement from CEBG, 27 June 1973.
9pp. draft.
- F.73, F.74 Speech delivered in acknowledgement of the James Watt Medal, presented at the Institution of Mechanical Engineers annual dinner, 8 November 1973.
- F.73 2pp. draft; commemorative booklet.
- F.74 Correspondence, January 1973-March 1974, re announcement of award, arrangements for presentation, copy of citation, etc.
Folder includes commemorative booklet of 1971 presentation of medal.
- F.75 'Engineering and industry', paper for seminar at Oxford, at invitation of M.M. Gowing, 3 December 1973.
20pp. draft with ms. corrections.
- F.76, F.77 Speech delivered to the Electrical Industries Club luncheon, 8 January 1974.
- F.76 19pp. draft (carbon); correspondence, August 1973-February 1974, including invitation, arrangements and reactions to the speech.
- F.77 Newspaper cuttings re Hinton's speech; Electrical Industries Club list of officers and members.
- Folder also includes 'Choice of nuclear reactor - January 1974', a memorandum submitted on request to the House of Commons Select Committee on Science and Technology, whose interest had been aroused by the speech.
16pp. draft (carbon); related correspondence, including draft letter to Lord Carrington re possible future energy crisis.
- F.78, F.79 'World energy resources', lecture delivered to the Socratic Society of Churchill College, Cambridge, 14 February 1974.
- F.78 32pp. draft (carbon) labelled '1st Draft. This was not used but shortened'; 29pp. draft with ms. corrections.
- F.79 Correspondence, October 1973-February 1974, re arrangements and subject of lecture.

Lectures and publications

- F.80 Speech delivered by the Hon. Mrs. S.M. Mole, Hinton's daughter, at St. Martin's School speech day, April 1974.
9pp. photocopy, with covering note to Mrs. Mole.
- F.81 Speech delivered at Winfrith Heath apprentice prizegiving ceremony, 15 November 1974.
23pp. draft with ms. corrections.
- F.82 Speech delivered at Dungeness 'A' Power Station open day, 20 September 1975.
8pp. draft with ms. corrections and summary on back of last page; brief correspondence, including data on performance of power station requested by Hinton.
- F.83, F.84 'After dinner Speech to be given at 150th Anniversary of Passenger Railways', 26 September 1975.

F.83 28pp. draft with ms. corrections; 2pp. ms. notes.

F.84 Correspondence, November 1974-October 1975, including invitation, comments on Hinton's drafts, etc.

Folder includes '150 years of Uninterrupted Progress in Railway Engineering' by R.C. Bond and O.S. Nock.
- F.85 'World energy supplies', paper for seminar at Oxford, at invitation of M.M. Gowing, 17 November 1975.
25pp. draft with ms. corrections; correspondence, July 1975-February 1976, re arrangements, subject of lecture, etc.
- F.86 Toast given to the Institution of Mechanical Engineers, Thames Valley Panel dinner, 1 December 1975.
12pp. draft.
- F.87 Speech delivered at Council of Engineering Institutions dinner, 10 February 1976.
13pp. draft; 1p. ms. summary.

Lectures and publications

- F.88 Speech delivered at the Institution of Civil Engineers annual dinner, 29 April 1976.
- 25pp. draft; 2pp. summary with ms. corrections; 'first draft' of response of Sir Norman Rowntree (President, ICE), sent to Hinton for information; correspondence re arrangements for, and arising from, Hinton's speech.
- F.89 Speech delivered to the Council of Engineering Institutions Engineers' Registration Board, 2 June 1976.
- 6pp. draft with ms. corrections.
- F.90 Inaugural speech delivered at the Institution of Mining and Metallurgy Symposium on uranium, 17 January 1977.
- 6pp. draft; correspondence, September 1976-January 1977, re arrangements, comments on draft, etc., including message of welcome from the Duke of Edinburgh and Hinton's draft message of thanks in reply.
- F.91, F.92 Speech delivered at the closure of the Dounreay reactor, 23 March 1977.
- F.91 25pp. draft with ms. corrections; correspondence, February-April 1977, including programme for visit.
- F.92 2pp. ms. notes; background material.
- F.93, F.94 'The birth of the breeder', address given at symposium on fast breeder reactors at the University of Strathclyde, 25 March 1977.
- F.93 2pp. summary; 12pp. draft with ms. corrections; galley proofs with ms. corrections.
- F.94 Correspondence, November 1976-August 1977, re arrangements, comments on Hinton's drafts, etc.; 2pp. ms. notes; list of conference participants; background material.
- F.95 Address given at the reception to celebrate centenary of the Royal Institute of Chemistry, 28 March 1977.
- 7pp. draft with ms. corrections; correspondence, October 1976-March 1977, re arrangements and subject of address; programme.

Lectures and publications

- F.96 Speech delivered at the Institution of Mechanical Engineers annual dinner, 10 November 1977.

8pp. draft; draft of President's reply; correspondence, September-November 1977, including Hinton's request for a microphone as his voice was still weak after throat surgery.
- F.97 Speech for dedication service at Tisbury church hall, 11 December 1977.
5pp. photocopy, with ms. corrections (original typescript is at A.226).
- F.98 Speech delivered at the Institution of Mining and Metallurgy annual dinner, 16 June 1978.
4pp. draft; correspondence re arrangements, February-June 1978.
- F.99 Speech delivered at the inaugural meeting of the British Association, Bath Abbey, 4 September 1978.
5pp. draft.
- F.100 After dinner speech delivered at the Institution of Electrical Engineers vacation school on 'Management in engineering', Danbury, 8 September 1978.
19pp. draft with ms. corrections.
- F.101 Speech delivered at the presentation of the Hinton Medal, arranged by the Institution of Nuclear Engineers, 19 October 1978.
3pp. draft with ms. corrections. See also B.82.
- F.102 Speech delivered at the degree ceremony, Hatfield Polytechnic, 8 December 1978.
17pp. draft with ms. corrections; correspondence, October-December 1978, re arrangements, Hinton's draft, and letter of thanks.
- F.103 'Toast to the polytechnics', given at 10th anniversary dinner at Haberdashers' Hall, 14 March 1979.
16pp. draft with ms. corrections; correspondence, February, March 1979, re arrangements, information requested by Hinton, etc.

Lectures and publications

- F.104 Speech delivered at the dinner for the Heads of Sides, Dulwich College, 4 May 1979.
21pp. draft; 1p. notes with ms. additions; letter of thanks.
- F.105 Speech delivered at the presentation of the ITT Technology Writers' Awards, 30 May 1979.
21pp. draft with ms. corrections; correspondence, March-June 1979, including arrangements and background information sent to Hinton.
- F.106 Opening address delivered at the International Association of Energy Economists symposium on nuclear energy at the Athenaeum, 24 October 1979.
3pp. draft with ms. comment; correspondence, July-October 1979, re arrangements.
- F.107 After-dinner speech delivered at conference on 'fluidised beds', 4 November 1980.
8pp. draft with ms. comment and summary on back of last page.
- F.108 Notes for discussion at BIEE meeting on 'The UK nuclear record and future', Chatham House, 16 September 1981.
5pp. draft with ms. corrections.
- F.109 List of 'speeches at lunches and dinners, schools, etc., presentations, openings', 1955-74. Almost all marked as destroyed by Hinton.

Invitations to lecture, declined by Hinton, August 1969.

Lectures and publications

RADIO AND TELEVISION

The material is somewhat scanty. Hinton was usually asked to contribute to radio and television programmes concerning nuclear energy.

- F.110 'The A.B.C. of atomic energy', 1958.
Pamphlet published by the BBC, based on series of 7 talks by Hinton broadcast on the BBC General Overseas Service and External Services. See K.36 for gramophone records of talks, and B.16, B.17 for material re talks for the Australian Broadcasting Commission on the same topic, 1964. See also B.2.
- F.110A Letter, 15 August 1970, re interview on the 1946 atomic project for Granada Television.
- F.111, F.112 'The development of nuclear energy in the U.K.', March 1972, recorded for an audio cassette for the Open University's foundation course in technology.
- F.111 22pp. typescript 'suggested script' with ms. corrections, dated 14 March 1972 and inscribed 'Not used'; 15pp. typescript script with ms. corrections, dated 28 March 1972 and inscribed 'taped - 29 March '72'.
- F.112 Correspondence, October 1971-June 1972, including arrangements for making recordings, editing of script and payment of fee.
- F.113 Letter, 6 March 1972, re film made by BBC with Hinton on nuclear power, inscribed with Hinton's ms. note: 'It was filmed at Tiverton Lodge and was never shown'.
- Letter, 6 February 1974, thanking Hinton for his appearance on the BBC 'Panorama' programme on nuclear power, 10 January 1974.
- Letter, 23 August 1982, inviting Hinton to appear on the BBC 'Time-watch' programme to mark the 30th anniversary of the Monte Bello atomic bomb test, with another letter, 13 September, withdrawing invitation.

Lectures and publications

12pp. transcript of interview between Hinton and John Groom of the BBC 'Horizon' programme on nuclear power, 13 December 1982, inscribed 'not used by BBC'; note re filming dates; Hinton's letter re alterations to script.

ARTICLES

Hinton was often asked for contributions to house journals in the power industry and to the journals of engineering organisations, usually on the nuclear power industry. His contributions to other publications include the Royal Society Memoir of Sir Claude Gibb (F.117), and pieces on engineering as a career (see F.120, F.121).

Where possible, the date of publication has been given, otherwise the dates inscribed by Hinton on his drafts have been quoted.

Unless otherwise stated, all items are carbon copies of Hinton's typescript drafts.

- F.114 'Review of atomic energy', for the Annual Financial and Industrial Review of The Liverpool Daily Post.
7pp. c.1956.
- F.115 Article for the Sunday Times on the factors involved in the 'construction of a new capital asset'.
6pp, dated August 1957.
- F.116 'Secrets of success', for Westminster Press provincial newspapers.
4pp. (carbon and photocopy), dated 23 November 1959.
- F.117 'Claude Dixon Gibb', Biographical Memoirs of Fellows of the Royal Society, 5, 1960.
Reprint; 10pp. 'second draft' (carbon only) with ms. corrections; three letters acknowledging receipt of copies.

Lectures and publications

- F.118 'The changing face of Britain', 'for distribution overseas' by the Central Office of Information.
5pp., December 1961; illustrations.
- F.119 'Japan revisited', for the Chartered Mechanical Engineer, March 1963.
5pp. Hinton visited Japan in 1956 and 1962. For other material on these visits see B.35-B.41, K.3, K.4. There is also an account of the 1956 visit in Memoirs, pp. 342-350.
- F.120 'If I were a young mechanical engineer', for the 'Handbook on Professional Careers'.
5pp., March 1966.
- F.121 'The excitement of engineering', for the Department of Education and Science publicity campaign for engineers and engineering.
4pp., April 1966.
- F.122 Brief correspondence, August 1966, re article for the house magazine of the World Bank.
- F.123 Series of three articles for Power News, December 1966-February 1967. Hinton originally wrote one 'newsletter' which was divided into three for publication.
2 drafts with ms. corrections, 20pp. (inscribed 'superceded') and 18pp.; brief correspondence, November 1966, re corrections and alterations; cuttings from Power News giving texts as published.
- F.124 'Foreword for brochure on applied science', for the University College of Monmouthshire and South Wales.
2 drafts (each 3pp.) with different ms. corrections, April 1967.
- F.125 'Nuclear power in countries with small electricity systems', for Science Reporter of India.
12pp., April 1968.

Lectures and publications

- F.126 'The Selection and Promotion of Staff', for the The Chartered Mechanical Engineer.
2 drafts (5pp. and 15pp.); Hinton's letter to editor re corrections.
May 1968.
- F.127 'The structure of the nuclear power industry', for New Scientist.
16pp. draft 'retyped from final copy sent to New Scientist'.
- F.128 'Confidence is being undermined', for The Engineer, March 1969.
5pp. with ms. corrections; 2pp. list of corrections; copy of article as published; correspondence, November 1968-March 1969, including invitation to contribute a guest article.
- F.129 Brief correspondence with editor of The Chartered Mechanical Engineer, May 1969, re request for contributions.
- F.130 Preface for 'Management for Engineers', published by the Institution of Mechanical Engineers, June 1972.
2pp.; correspondence, November 1971-July 1972, including invitation to write preface.
- F.131 'The raw materials of defence', for A.W.R.E. News, May 1973.
11pp. with ms. corrections; cutting from A.W.R.E. News including article; copy of Risley Gazette, 25 July 1973, including article; correspondence, January-June 1973, including request to reprint article.
- F.132 'The future of nuclear power in Britain'. for the Year Book of the Österreichischer Gewerbeverein, 1975.
8pp. draft; 1p. list of illustrations; copy of Year Book.
Folder includes newspaper cuttings re M.M. Gowing's 'Independence and Deterrence. Britain and Atomic Energy', published November 1974, used as background material by Hinton.
For Hinton's membership of the Österreichischer Gewerbeverein, see H.13-H.16.

Lectures and publications

- F.133 'Note on Mr. R.V. Moore', for Atom.
2pp. (photocopy) dated 20 October 1976.
- F.134 'The nuclear power industry' for New Scientist, 28 October 1976.
8pp. (photocopy); list of nuclear power stations and dates of commissioning; article as published; correspondence, July-November 1976, including letters in response to article; cutting from The Financial Times with review of article.
- F.135 'Pride and prejudice', for April 1977 issue of Nuclear Engineering International which celebrated the 'coming of age of the nuclear energy industry'.
4pp. draft; correspondence, January, March 1977, including invitation to contribute.
- F.136 'The birth of Calder Hall', for Atom, October 1977. Hinton was asked for an article of personal reminiscences of the building of Calder Hall nuclear power station to mark the 21st anniversary of its opening by the Queen.
9pp. draft; correspondence, August-November 1977, including invitation to contribute and letter arising from publication.
- F.137 'Contribution to First Number of "Building Services"'.
2pp., 1 August 1978; letter, July 1978, requesting a contribution.
- F.138 'Nuclear Power in the 1980s', for Ascent.
2pp., 13 December 1978.
- F.139 Contribution to a special edition of Journal of the Institution of Nuclear Engineers, 20th anniversary issue, September/October 1979.
3pp.; brief correspondence, March, April 1979.
- F.140 'Atomic energy in Great Britain', n.d.
4pp. draft, inscribed 'I have no idea who this was written for or when it was given'.
- F.141 'People on the Risley staff', n.d.
11pp.

Lectures and publications

BOOKS

- F.142-F.160 Engineers and Engineering, OUP, 1970.
- F.161-F.175 History of Technology: Twentieth Century, Clarendon Press, Oxford, 1978.
- F.176-F.198 Heavy current electricity in the United Kingdom: history and development, Pergamon Press, 1979.

- F.142-F.160 Engineers and Engineering, 1970

In December 1968 Hinton was invited by Lord Jackson of Burnley to contribute a monograph to a series 'dealing with varied aspects of the impact of scientific discovery and technological development on society'.

Hinton's book, originally entitled 'The Changing Pattern of the Engineering Profession', did not have a large sale, and he intended to update and republish it before the Finniston Report came out (see F.158 for Mrs. Ellis's note). Two drafts of the updated version survive (F.159, F.160).

- F.142-F.146 118pp. typescript draft, with many ms. corrections, divided into folders for ease of reference.

F.142 Contents page; Chapters 1-3.

F.143 Chapters 4 and 5.

F.144 Chapters 6-8.

F.145 Chapters 9-11.

F.146 Chapter 12; 2pp. list of references.

- F.147 1p. ms. bibliography; 3pp. ms. list of corrections and alterations, made by Hinton's sister, Joan, annotated by him.

Lectures and publications

Correspondence, 1968-80

- F.148 1968 December-1969 March. Includes invitation from Lord Jackson of Burnley to write the monograph, Hinton's draft synopsis, and correspondence re agreement with The Clarendon Press.
- F.149 1969 April-July. Includes comments by Joan Hinton and Lord Jackson on draft, and invitation from Chairman, CEI, to deliver the Graham Clark Lecture for 1970.
- F.150 1969 August. Includes Hinton's refusal to give Graham Clark Lecture as all possible subjects covered by the monograph, correspondence re change of title, and comments on draft by L. Drucquer, and bibliography.
- F.151 1969 September. Includes queries re bibliography, with Hinton's answers and corrected version.
- F.152 1970 January-April. Includes Hinton's draft 'blurb', his comments on, and corrections of, proofs of Chapters 1 and 2, and Chapters 3 to 12.
- F.153 1970 May, July. Includes review list and Hinton's list of recipients of complimentary copies.
- F.154 1970 October, December. Includes invitation to a literary luncheon, review list, and letters from readers.
- F.155 1971. Includes reviews, Hinton's own review for The Chartered Mechanical Engineer, and brief correspondence with a reader.
- F.156 1972-80. Includes brief correspondence with fellow engineering apprentice, and statements of sale.

Lectures and publications

- F.157 Copy of book bearing Hinton's ms. corrections for updating. Includes 1p. ms. list of pages requiring alteration.
- F.158 Brief correspondence, November 1978, June 1979, with M.W. Leonard, re revised script of book. Folder includes 1p. ms. note, dated 29 June 1983, by Mrs. P. Ellis, re Hinton's intention to update book.
- F.159 93pp. typescript draft (photocopy) of updated version of book, dated 28 July 1978.
- F.160 80pp. typescript draft of updated version of book, dated 2 November 1978.

Lectures and publications

F.161-F.175 History of Technology: Twentieth Century, 1978

In February 1975 T.I. Williams invited Hinton to contribute a chapter on atomic power to the two-volume continuation of the History of Technology, to cover the first half of the twentieth century. Later, Williams suggested that Hinton's contribution should be 'a brief general introduction' and a section on 'the diffusion plant'; the rest of the chapter was to be contributed by J.V. Dunworth (on the development of reactors up to Calder Hall) and R. Spence (on chemical aspects of atomic power).

Hinton became unhappy with the narrow scope of diffusion as a topic and entitled his contribution 'Uranium Enrichment'. When Spence died before writing his contribution on chemical separation plants, Hinton undertook this work. He also furnished the section on reactors, which was to have been provided by Dunworth. Thus in the end Hinton wrote the whole chapter.

W.G. Penney declined an invitation from Williams to contribute a chapter on atomic weapons in a section on military technology, see F.161.

Correspondence

- F.161 1975 February-October.
- F.162 1976 March-September. Includes answers to Hinton's requests for information and factual checking of his draft on chemical processes.
- F.163 1976 November-December. Includes notes from J.V. Dunworth on aspects of building nuclear reactors.
- F.164 1977 January. Includes comments on, and corrections to, Hinton's draft on nuclear reactors by M.M. Gowing, L. Arnold and F.W. Fenning, and 3pp. draft 'Insert' by Hinton.
- F.165 1977 February-June.
- F.166 1977 July-1978 December. Includes Hinton's comments on the proofs.

Lectures and publications

Notes and drafts

- F.167 'History of technology - nuclear power The Early History'
9pp. carbon copy of draft of general introduction, inscribed 'Final version' and 'Submitted 2.10.75.'
- 'Uranium enrichment'
15pp. carbon copy of draft, inscribed 'Final version' and 'Submitted 2 Oct. 1975'. The following note is typed at the head of the draft:
'It is assumed that this section follows after my short introductory section'.
- F.168 Ms. notes by Hinton and M.M. Gowing found with the preceding drafts.
- F.169 'Chemical processes for atomic energy'
2 drafts (carbon copies, each 15pp.), 27 July 1976, with different ms. corrections; bibliography and illustrations.
- F.170 4pp. ms. notes, 2pp. ms. bibliography and various photocopies of articles found with preceding drafts.
- F.171 'The development of nuclear reactors'
22pp. draft, 2 February 1977; 1p. bibliography; 11pp. illustrations; note re correction of errors. All photocopies.
- F.172 22pp. ms. notes by Hinton on various publications, found with preceding draft.
- F.173 Photocopies of articles, mostly by Soviet scientists, in English translation, re types of reactors, etc.
- F.174 26pp. photocopy of ms. notes on A Kramish's Atomic Energy in the Soviet Union, not by Hinton but annotated by him.
- F.175 34pp. typescript 'Transcript of Mrs. Arnold's notes' re Soviet use of nuclear energy, 26 January 1977.

Lectures and publications

F.176-F.198 Heavy Current Electricity in the United Kingdom: History and Development, 1979

Hinton states in the 'Preface' that he had time to spare after giving up his post at the World Bank in 1970, and used it in writing this book, carrying out all the research himself.

In 1977 he approached Robert Maxwell of Pergamon Press, who published the book. Unfortunately, it made a loss; Hinton had assigned all rights to the Fellowship of Engineering and was disappointed that more had not been done to profit from the book (see F.198).

The material consists of a large amount of ms. and typescript research notes, a copy of the book and some correspondence.

Research material

F.176-F.179 Ms. notes, many also in typescript, made by Hinton on Acts of Parliament, concerning gas and electricity, etc. F.175 includes a note by Mrs. Ellis, 30 June 1983:

'I am not sure whether Lord Hinton did use all the attached background information when writing "The history of heavy current electricity in England and Wales" but he certainly did all the research himself.'

4 folders.

F.180-F.193 Contents of 3 binders, consisting mainly of typescript notes, some bearing Hinton's ms. annotations, on publications, reports, government committees, etc. concerned with the development of public utilities. There are some photocopies of articles, tables of statistics, etc.

The material was indexed by Hinton, and has been removed from the binders into folders for ease of reference.

F.180-F.184 Volume 1 (items 1-18)

F.180 1p. ms. notes; Index; items 1-3.

F.181 Items 4-6.

F.182 Items 7-10.

F.183 Items 11-15.

F.184 Items 16-18.

Lectures and publications

- F.185-F.190 Volume 2 (items 19-33)
- F.185 Index; items 19-21.
- F.186 Items 22-24.
- F.187 Item 25.
- F.188 Items 26-28.
- F.189 Items 29-31.
- F.190 Items 32 and 33; 1p. biographical note on Sir Philip Nash with Hinton's ms. comments.

- F.191-F.193 Unnumbered volume (items numbered 1-9).
- F.191 Index; 1p. 'Sources'; 1p. entitled 'Remaining chapters'; items 1 and 2.
- F.192 Items 3-6.
- F.193 Items 7-9.

- F.194 Copy of book. Includes errata slip.

Correspondence

- F.195 1972, 1973. Correspondence with the librarian of The Institution of Gas Engineers re the early history of the gas industry, and its competition with electricity.
- F.196 1977. Includes correspondence with Greater London Council re installation of electric light on the Victoria Embankment, Hinton's approach to Robert Maxwell to publish book, outlining intention to assign royalties to the Fellowship of Engineering, and Maxwell's acceptance.

Lectures and publications

- F.197 1978. Includes Hinton's answers to questionnaire, sent by publisher, on the book, draft 'Preface' and list of chapter and section headings, 'Memorandum of Agreement', and Hinton's list of errata.
- F.198 1979, 1980. Includes correspondence re poor sales and royalties, and letters of thanks from recipients of complimentary copies.

BOOK REVIEWS

- F.199 Sir Harold Hartley, Humphry Davy, for 'the Times supplement', 1966.
Draft only.
- F.200 E.N. Macmillen, Conservation and Land Use, 1968(?).
Draft only.
- F.201 Philip Sporn, The Social Organisation of Electric Power Supply in Modern Societies, for Electronics and Power.

Draft; background material; note by Hinton's secretary, August 1972, that review was written as 'a special favour by Lord Hinton for Sir Harold Hartley and although he had written the review would not like his name to be mentioned but that it should still go under the name of Sir Harold Hartley'.
- F.202 J.W. Gofman and A.R. Tamplin, Poisoned Power: the Case Against Nuclear Power Plants, for Energy Policy, 1973.

Draft; correspondence; copy of text as published. See F.216-F.226 for correspondence with Energy Policy; Hinton served on the journal's editorial board.
- F.203 J.H. Stephens, The Age of Power, for The Consulting Engineer, 25 October 1974.

Draft; correspondence; copy of text as published.

Lectures and publications

- F.204 Walter C. Patterson, Nuclear Power, for Nature, 15 July 1976.
Draft; correspondence; reviews by others; galley proof; copy of text as published.
- F.205 R.F. Pocock, Nuclear Power: its development in the United Kingdom, for New Scientist, 3 November 1977.
Draft; correspondence; proofs; copy of text as published.
- F.206 Edmund Teller, Energy from Heaven & Earth, for The Times Higher Education Supplement, 1980.
Draft and covering letter.
- F.207 Roger Williams, Nuclear Power Decisions, for Public Administration, 1980.
Draft; correspondence, including earlier draft with comments by M.M. Gowing; ms. notes and background material.

LETTERS TO THE PRESS

- F.208 To The Times, 24 January 1974, re 'Energy crisis: need for new strategy', with others.
Photocopy of letter as published; photocopies of related correspondence from The Times.
- F.209 To The Times, 10 June 1974, re 'Risk from nuclear reactors'.
Carbon copy; cutting; related correspondence.
- F.210 To The Times, 9 October 1976, re The Flowers Report.
Carbon copy; related correspondence.

Lectures and publications

- F.211 To The Daily Telegraph, 1 October 1979, re 'the storage of nuclear waste'.
Carbon copy with ms. corrections; photocopy of letter as published; correspondence, including Hinton's requests for information and responses to the published letter.
- F.212 To The Times, 24 April 1981, re 'education in the Technologies'.
Carbon copy; brief related correspondence.
- To The Times, re report of the Monopolies and Mergers Commission on the CEEB.
Carbon copy, dated 10 June 1981.
- To New Civil Engineer, re funding of British Council of Engineering.
Carbon copy, dated 10 February 1982.

CORRESPONDENCE WITH PUBLISHERS AND EDITORS

- F.213 Academic Press Inc. (London) Limited 1978, 1979
Includes requests for Hinton's suggestions for areas of the energy question of interest to publishers and for his comments on various publications.
- F.214 The Athlone Press 1975
Request to Hinton to read, and check the accuracy of, a history of nuclear power in the UK; Hinton's verdict on the book, including list of comments, etc.
- F.215 Basil Blackwell Publisher 1983
Request to Hinton to review a proposal for a book on nuclear power policy; Hinton's comments on prospectus, etc.

Continued

Lectures and publications

- F.215 The Dictionary of National Biography 1979
(Cont'd.) Reply to request to write 'note' on Hans Kronberger (Hinton's carbon only).
- F.216-F.226 Energy Policy 1972-82
 Contents of a folder inscribed ' "Energy Policy" - editorial board - IPC Business Press'.
 Hinton was asked, in October 1972, to serve on the editorial board of a new journal, Energy Policy, 'publishing interpretive articles for the non-specialist manager'. Hinton attended board meetings, commented on prospective articles and wrote a book review (see F.202).
- F.216 1972 October, November. Includes invitation to serve on editorial board of Energy Policy and Hinton's suggestions for topics of articles.
- F.217 1972 December. Includes papers of foundation meeting of editorial board, 20 December.
- F.218 1973 January, February. Includes summary of meeting of 20 December 1972 and Hinton's comments on 2 articles.
- F.219 1973 March, May. Includes list of members of International Editorial Board and Hinton's comments on various articles.
- F.220 1973 June-October. Includes Hinton's comments on first number of the journal and on an article.
- F.221 1978, 1979.
- F.222 1981 May. Includes some papers for board meeting, 26 June.
- F.223 1981 June, July. Includes papers of board meeting, 26 June.
- F.224 1982 March, April. Request for advice re proposed collection of papers from journal, aimed at social sciences students, and Hinton's reply.
- F.225 1982 May. Papers for board meeting, 1 July.
- F.226 1982 August. Papers for board meeting, 27 August.

SECTION G CONSULTANCIES G.1 - G.83

G.1 THE ELECTRICITY COUNCIL

G.2 - G.8 THE MINISTRY OF TRANSPORT

G.9 - G.83 THE WORLD BANK
(INTERNATIONAL BANK FOR RECONSTRUCTION AND
DEVELOPMENT)

G.1 THE ELECTRICITY COUNCIL 1964-83

Correspondence re invitation, and acceptance by Hinton, of membership of Electricity Supply Research Council, including financial arrangements (1965) and meetings (1982, 1983), and re visits and social events. Folder also includes lists of people in the electricity supply industry appearing in the Honours Lists 1977-83.

The paucity of the material is explained in a note by Mrs. Ellis, included in the folder, dated 18 July 1983, as follows:

'The Electricity Council have retained all papers and correspondence dealing with the electricity supply industry to extract classified material. I have asked for any unclassified material to go to I Mech E.'

Consultancies

G.2-G.8 MINISTRY OF TRANSPORT

Hinton was asked in January 1965 by the Minister of Transport to 'investigate the co-ordination of all transport'. Although Hinton was already hoping to undertake work for the World Bank he agreed to postpone this in order to fulfil the Minister's request. See G.77 for Hinton's correspondence with the World Bank on this matter, and Memoirs, pp.486-490 for his account of the investigation.

The material here consists of correspondence, copies of Hinton's reports, notes and printed material of various dates related to his interest in transport problems.

G.2 January 1965 and n.d. Correspondence re Hinton's appointment as Special Adviser on Transport Planning, and establishment of Transport Advisory Council.

G.3-G.5 Carbon copy of Hinton's report, in his original folders.

G.3 'Report of inter-urban traffic', with covering letter to Minister of Transport, 12 April 1965.

G.4 'Report on urban transport'.

G.5 'Report on the carriage of parcels and smalls'.

G.6 Ms. and typescript notes by Hinton on other transport reports and problems. Includes notes of 1931 Weir report, 1956 British Transport Commission 'Proposals for the railways' Cmd. 9880, 'Bond's paper 1961', 'Quotas for carriage of goods 1975', 'Notes on the Serpell Report' 1983, and miscellaneous undated notes.

G.7, G.8 Copy of Serpell Report on 'Railway Finances' and Supplementary volume, HMSO 1983, with a few comments by Hinton.

Consultancies

G.9-G.83 THE WORLD BANK (INTERNATIONAL BANK FOR RECONSTRUCTION
AND DEVELOPMENT) 1963-83

G.9 -G.22 Nuclear survey report

G.23-G.61 Visits and projects

G.62-G.83 General correspondence

NUCLEAR SURVEY REPORT 1966-68

Contents of a bulky folder so inscribed.

In 1966 Hinton was asked by the World Bank to furnish a report on the prospects for nuclear power in the developing countries. His collaborator on the project was Mario Piccagli and the report 'Nuclear power for small electricity systems' was presented in July 1968; a copy is included at G.21. Hinton writes (Memoirs, p.493) 'The report was not printed because of objections by the International Atomic Energy Agency but it was circulated in typescript and I believe it was useful'.

The material consists of correspondence, arrangements for visits, requests for information, minutes of meetings of the Nuclear Power Generation Study, background reports and some of Hinton's notes and drafts for the report.

| | | | |
|------|--------------------------|------|------------------------|
| G.9 | 1966, October | G.15 | 1967, May |
| G.10 | 1966, November, December | G.16 | 1967, June |
| G.11 | 1967, January | G.17 | 1967, July |
| G.12 | 1967, February | G.18 | 1967, August |
| G.13 | 1967, March | G.19 | 1967, October-December |
| G.14 | 1967, April | G.20 | 1968 |

Consultancies

- G.21 Report on 'Nuclear power for small electricity systems', 15 July 1968.
- G.22 'Nuclear power: its significance for the developing world',
19 April 1974.
- Annex 1 of this report reproduces material from the 1968 report (G.21).

VISITS AND PROJECTS

Hinton made several visits on behalf of the Bank to sites, installations and organisations in different countries, usually to assess the situation before the Bank made a loan for development in the power industries. In the cases of East Africa and West Pakistan there are copies of his reports, held at G.50, G.51 and G.57, G.58 respectively.

Taiwan, 1965-69

The Bank was asked for a loan to help finance the Tachien Dam project. Hinton visited Taiwan in June 1966 to assess the potential role for nuclear energy and the justification for the Tachien hydroelectric project. (See A.9, 'Memorandum of activities from 1970 to 1980', pp.1-2.)

The material consists chiefly of correspondence re the Chinese proposals, arrangements for the visit, training of personnel, etc.

G.23 1965, September, October. G.25 1966, May-December.

G.24 1966, March, April. G.26 1967, 1969

G.27 Draft of appraisal of second power project of World Bank in Taiwan, 1970.

Consultancies

Vienna, 1965

G.28 Notes dictated by Hinton re meeting between the World Bank and the Atomic Energy Agency in Vienna, 15 December 1965.

Turkey, 1965-67

Contents of a folder inscribed 'World Bank - Visit to Turkey 1965-67'

Hinton, with Mario Piccagli, visited Turkey in January 1966 for discussions with government officials re proposed technical and financial assistance by the Bank in reorganising and expanding the Turkish electric power industry.

The material consists largely of correspondence on legislation for the establishment of the Turkish Electric Authority (TEK), and arrangements for meetings and visits. Also included are drafts of the TEK bill (G.31) and comments by Hinton (G.32), and others, upon it.

| | | | |
|------|---------------------|------|-------------------------|
| G.29 | 1965, December | G.34 | 1966, September |
| G.30 | 1966, January-April | G.35 | 1966, October, November |
| G.31 | 1966, May (1) | G.36 | 1967, January |
| G.32 | 1966, May (2) | G.37 | 1967, April-August |
| G.33 | 1966, June, July | | |

Brazil, 1966

G.38 Hinton visited Brazil in March 1966, where the Bank had sponsored an investigation of hydro resources, to consider whether the work done could be extended to the southern area of the country.

The material consists chiefly of correspondence on the CANAMBRA report on the power problems in Brazil and prospects for hydro and nuclear power. Also included are Hinton's notes on the CANAMBRA report and on problems of Brazil, and the Terms of Reference of a UN power study.

Consultancies

East Africa, 1967-70

Contents of a bulky folder inscribed 'World Bank - East Africa 1967/1969'.

In 1968 Hinton, as Chairman of the Co-ordinating Power Development Committee, visited East Africa in a successful attempt to secure agreement for integrating the power systems of Kenya and Uganda. He also visited the site of a proposed hydro station at Murchison Falls, and on the return journey sustained an injury to his spine which left it permanently damaged (see A.9, 'Memorandum of activities from 1970-1980', p.2, and correspondence passim).

The material includes correspondence, arrangements for meetings and visits, committee papers, terms of agreements between Ugandan and Kenyan governments, and a little personal material re Lady Hinton's illness. G.43 includes Hinton's 'Opening remarks' for a meeting and G.44 includes two versions (not identical) of a paper by Hinton on 'The amenity problem at Murchison Falls'.

The Report and Supplementary Report on the 'Kenya-Uganda co-ordinated development', annotated by Hinton, are at G.50, G.51.

See G.49 for Hinton's 1982 'Note' on the episode.

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|------|--|------|-----------------------------------|
| G.39 | 1967, May-August | G.45 | 1968, December |
| G.40 | 1967, September | G.46 | 1969, January |
| G.41 | 1967, October-December | G.47 | 1969, February, March |
| G.42 | 1968, January-July | G.48 | 1969, August-December |
| G.43 | 1968, August, September | G.49 | 1970, with note by Hinton 1982 |
| G.44 | 1968, October, November | | |
| G.50 | 'Report on Kenya-Uganda co-ordinated development', April 1968. | | |
| G.51 | 'Supplementary' of above, including map. | | |

Consultancies

West Pakistan, 1969-73

In 1969 the Bank was considering a \$20 million credit to West Pakistan for power transmission projects. Hinton visited the country in October 1969 to review the West Pakistan Water and Power Authority (WPDA) and its relationship with government departments. Hinton's verdict on his mission was: 'It was probably the best piece of work that I did for them but it was politically unpopular and my recommendations were never implemented' (see A.9 'Memorandum of activities from 1970 to 1980', p.4).

The material here consists of correspondence re arrangements for the visit, possible association of WPDA with the Electricity Council (for exchange of ideas and personnel, technical assistance, etc.), reactions to Hinton's report, the reorganisation of WPDA, etc.

Also included are copies of Hinton's report (G.57, G.58) and some background material (G.59).

| | | | |
|------|--------------------------|------|----------------------|
| G.52 | 1969, July-September | G.55 | 1970, June-September |
| G.53 | 1969, November, December | G.56 | 1971-74 |
| G.54 | 1970, January-May | | |

G.57, G.58 Hinton's report 'An enquiry into the organisation of The Water and Power Development Authority of West Pakistan'.

G.57 Carbon of typescript draft, with Hinton's ms. corrections.

G.58 Typescript of final text, submitted 4 November 1969.

G.59 Background material.

Consultancies

East Pakistan, 1970, 1971

Hinton was due to make a similar investigation in East Pakistan to that already accomplished in West Pakistan when war broke out between the two countries (see A.9, 'Memorandum of activities from 1970 to 1980', pp.4, 5). This was his last job for the Bank and his appointment was terminated at his own suggestion in October 1970.

The material here consists of correspondence re the problems of the East Pakistan Water and Power Development Authority (EPWAPDA), Hinton's brief for his visit, delays in finalising arrangements for the visit, and the unstable political situation.

G.60 1970

G.61 1971, including note by Hinton, 1982

GENERAL CORRESPONDENCE

The division between 'technical' and 'non-technical' correspondence was made by Hinton and has been retained.

General correspondence (technical), 1965-72

A chronological sequence mainly relating to requests for information made by or to Hinton, including his comments on appraisal and draft reports, the difficulties in recruiting engineers and others for developing countries (see especially G.64, G.65), and his request for information re the Ontario Hydro and Tennessee Valley Authority retailing organisations in connection with his work for the Bank (G.62, G.63).

G.72, G.73 include letters re Hinton's future work for the Bank. He was anxious lest work be created 'artificially' for him but would have liked the Bank to have made more use of him.

Continued

Consultancies

| | | | |
|------|--------------------------|------|------------------------|
| G.62 | 1965, December (1) | G.69 | 1968, October-December |
| G.63 | 1965, December (2) | G.70 | 1969, January-May |
| G.64 | 1966, July-October | G.71 | 1969, July-December |
| G.65 | 1966, November, December | G.72 | 1970, March-May |
| G.66 | 1967 | G.73 | 1970, June-November |
| G.67 | 1968, February-June | G.74 | 1971 |
| G.68 | 1968, July-September | G.75 | 1972 and n.d. |

General correspondence (non-technical), 1963-83

The correspondence is somewhat scanty, and of heterogeneous content. G.76, G.77 include material relating to Hinton's initial approach to the Bank in 1964 when he was about to retire from the CEGB, postponement of his association with the Bank due to the request by the Minister of Transport for report on co-ordination of transport, and suggestions for his future assignments with the Bank. See also G.2-G.8 and Memoirs, pp.486-7.

Correspondence also includes some reference to technical matters such as the Murchison Falls scheme (G.78) and the proposed thermal power project in Swaziland (G.80).

There is a little personal correspondence with G.E. Wyatt, an officer of the Bank.

| | | | |
|------|------------|------|------------|
| G.76 | 1963, 1964 | G.80 | 1972 |
| G.77 | 1965, 1968 | G.81 | 1973 |
| G.78 | 1970 | G.82 | 1974, 1975 |
| G.79 | 1971 | G.83 | 1983 |

SECTION H SOCIETIES AND ORGANISATIONS H.1 - H.161

| | |
|------------|---|
| H.1, H.2 | CAMBRIDGE UNIVERSITY ENGINEERS ASSOCIATION |
| H.3 | THE CITY UNIVERSITY |
| H.4 | THE DULWICH SOCIETY |
| H.5 | ECONOMIC RESEARCH COUNCIL |
| H.6 -H.8 | EUROPEAN ACADEMY OF ARTS, SCIENCES AND HUMANITIES |
| H.9 | EUROPEAN NUCLEAR SOCIETY |
| H.10-H.12 | OPPORTUNITIES FOR THE DISABLED |
| H.13-H.16 | ÖSTERREICHISCHER GEWERBEVEREIN |
| H.17 | THE ROYAL INSTITUTION |
| H.18-H.41 | THE ROYAL SOCIETY |
| H.42-H.161 | WORLD ENERGY CONFERENCE |

For the many engineering organisations with which Hinton was involved, see Section C.

Societies and organisations

H.1, H.2 CAMBRIDGE UNIVERSITY ENGINEERS ASSOCIATION, 1966-78

Hinton was President of the Association 1971-76; there is correspondence re his nomination and election as well as arrangements for attending social gatherings, meetings, etc., including some agendas and minutes. H.1 includes a paper given by J. Tinker at the C.U.E.A. conference 'The engineer and the environment', October 1971.

Also included is some correspondence on research and appointments.

| | | | |
|-----|---------|-----|---------|
| H.1 | 1966-71 | H.2 | 1972-78 |
|-----|---------|-----|---------|

H.3 THE CITY UNIVERSITY, 1966-78

Hinton was a member of the University's Court 1966-76. Correspondence re appointments and a research project on the status of engineers in Europe.

H.4 THE DULWICH SOCIETY, 1971-83

Hinton was a Vice-President of the Society from 1971, but took no active part. The Society's aim was to foster the amenities of the locality. The correspondence concerns Hinton's annual re-election.

H.5 ECONOMIC RESEARCH COUNCIL, May, June 1981

Hinton accepted an invitation to become a member but withdrew due to ill-health.

Brief correspondence only.

Societies and organisations

H.6-H.8 EUROPEAN ACADEMY OF ARTS, SCIENCES AND HUMANITIES,
1981-83

Hinton was elected a member in 1981; the material concerns nominations for membership and the 1982 General Assembly (Hinton did not attend).

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| H.6 | 1981 | H.7 | 1982 | H.8 | 1983 |
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H.9 EUROPEAN NUCLEAR SOCIETY, 1982

Hinton was elected an honorary member in 1982.

H.10-H.12 OPPORTUNITIES FOR THE DISABLED, 1981-83

Hinton was the organisation's first President, and the correspondence deals largely with finance, including his own covenants, and aids for the disabled, such as the 'Vistel' visual telephone (H.11). Hinton took an active interest in the developments of a 'portable communication pack'.

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| H.10 | 1981 | H.11 | 1982 | H.12 | 1983 |
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H.13-H.16 "ÖSTERREICHISCHER GEWERBEVEREIN, 1970-82

The correspondence deals with nominations for the Wilhelm-Exner Medal, of which Hinton had been a recipient in 1956, with some related material. Hinton described it as 'a considerable international honour', awarded for promoting production, particularly in commerce and industry, by scientific work.

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| H.13 | 1970-73 | H.15 | 1979-81 |
| H.14 | 1974-78 | H.16 | 1982 |

Societies and organisations

H.17 THE ROYAL INSTITUTION, 1970-73

Hinton was elected a member in 1970. Brief correspondence only.

H.18-H.41 THE ROYAL SOCIETY, 1963-83

H.18-H.20 General correspondence on the affairs of the Society

H.21-H.30 Elections

H.31-H.41 Contemporary Scientific Archives Centre

GENERAL CORRESPONDENCE ON THE AFFAIRS OF THE SOCIETY

H.18 1969-74

Includes material re Royal Society Esso Award for the Conservation of Energy (1974).

H.19 1976-78

Includes material re Royal Society Esso Award (1978).

H.20 1980-82

Includes correspondence re the House of Lords Select Committee on Science and Technology, with Hinton's letter of information sent to the Royal Society concerning R&D in the engineering industry.

ELECTIONS

H.21 and H.22 are the contents of a folder labelled 'Royal Society: Committee on Technology'. This ad hoc committee aimed through the Royal Society 'to heighten the esteem of the technologist as a scientific contributor to the national welfare'. Hinton felt that more technologists should be elected to the Fellowship to achieve this.

H.23-H.30 contain general material, 1965-83.

Continued

Societies and organisations

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|------|---------|------|------------|
| H.21 | 1963 | H.26 | 1972-74 |
| H.22 | 1964 | H.27 | 1975-77 |
| H.23 | 1965-67 | H.28 | 1978, 1980 |
| H.24 | 1968-69 | H.29 | 1981, 1982 |
| H.25 | 1970-71 | H.30 | 1983 |

CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE, 1973-81

Hinton was initially approached for advice in January 1973; in the following December he was elected to the Centre's governing Committee. He resigned in December 1979.

H.31, H.32 General correspondence, chiefly re papers of deceased engineers, and finance.

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| H.31 | 1973, 1974 | H.32 | 1975-81 |
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H.33-H.40 Correspondence re papers of individual engineers, arranged in chronological sequence, 1973-75.

H.41 Committee and related papers, 1973-78.

Societies and organisations

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|-------------|----------------------------------|
| H.42-H.161 | WORLD ENERGY CONFERENCE, 1962-83 |
| H.42 -H.53 | International Executive Council |
| H.54 -H.116 | British National Committee |
| H.117-H.156 | Conservation Commission |
| H.157-H.160 | Miscellaneous correspondence |
| H.161 | Printed matter |

The World Energy Conference aimed 'to promote the development and the peaceful use of energy resources to the greatest benefit of all'.

For the sake of consistency, the title here and throughout is 'World Energy Conference' (WEC), although this was not adopted until 1967. Similarly, the triennial conferences are here called 'World Energy Conferences' (WEC), although the term 'Plenary Meetings' was also used, apparently interchangeably.

Hinton examined these papers in 1979 and again in 1981. Very bulky folders have been sub-divided but his arrangement has been retained.

For contributions by Hinton to World Power Conference (earlier title of WEC) at Montreal 1958 and Madrid 1960, see B.12, B.13, B.14.

Societies and organisations

INTERNATIONAL EXECUTIVE COUNCIL (IEC)

Contents of Hinton's correspondence files relating to the IEC, 1965-81. Hinton was Chairman of the Council 1962-68, afterwards becoming an Honorary Chairman. Much of the material relates to the organisation of the 7th WEC meeting in Moscow, August 1968, and the failure of the Soviet National Committee to invite certain countries.

- H.42 1962-66. Includes drafts of speeches by Hinton at opening and closing ceremonies of 1962 WEC at Melbourne and of 2 speeches by him at 1966 WEC at Tokyo.
- H.43 1967 January, February. Includes correspondence re relations of International Commission on Large Dams (ICOLD) with WEC and arrangements for 7th WEC.
- H.44 1967 September-December. Includes continuing correspondence re relations between ICOLD and WEC and arrangements for 7th WEC.
- H.45 1968 January. Continuing correspondence re arrangements for 7th WEC.
- H.46 1968 February. Minutes of Programme Committee meeting, Paris, 19 February.
- H.47 1968 March. Arrangements for 7th WEC, etc.
- H.48 1968 April, May. Arrangements for 7th WEC.
- H.49 1968 June. Includes draft of Hinton's 'Message of Welcome' for 7th WEC.
- H.50 1968 July. Arrangements for 7th WEC.

Societies and organisations

- H.51 1968 August, September. Includes draft report on finances of IEC, minutes of Programme Committee meeting in Moscow, 17 August, and typescript of Hinton's speech at closing ceremony at 7th WEC, with ms. corrections.
- H.52 1970, 1973
- H.53 1980, 1981. Information re IEC meetings at Munich and Cancún.

BRITISH NATIONAL COMMITTEE (BNC)

The material presented here chiefly concerns the BNC's involvement through the British Papers Committee (BPC), with the preparation of papers to be presented by the British participants at the triennial World Energy Conferences. Hinton chaired the BPC in respect of the 1974 and 1977 conferences. At the 1971 and 1974 conferences he refereed papers and chaired technical sessions.

The original arrangement of the material, by conference, has been retained.

8th WEC Bucharest 1971

Hinton was Chairman of the technical programme Division 2 (Single Processes) of the conference.

- H.54 1969 May, July. Formation of a Papers Committee (BPC); representation of various interests and organisations on BNC, especially steel; Hinton's 'Note' as Chairman of BPC on the work of the committee and the scope of the conference.
- H.55 1969 September. Includes list of BPC members.
- H.56 1969 November, December.
- H.57 1970 January-May.

Societies and organisations

- H.58 1970 June, July. Includes two reports by Hinton on papers submitted.
- H.59 1970 August, September. Includes letter acknowledging Hinton's acceptance of nomination as Chairman of Division 2 of technical session of conference.
- H.60 1970 December. Includes list of papers forwarded to Romanian National Committee and lists of British conference participants.
- H.61 1971(?). 'General Reports' of Sections 2.1 - 2.5.
- H.62 1971 March-May. Material re Hinton's travelling arrangements for Bucharest and his personal typescript notes on papers in Divisions 1-3, etc.
- H.63 1971 June (1). Includes Hinton's 'Introductory remarks' for Division 2 meetings (typescript draft with ms. corrections).
- H.64 1971 June (2). Includes Hinton's remarks closing Division 2.2 and 2.3 meetings (carbons of typescripts with ms. corrections).
- H.65 1971 July. Requests for texts of Hinton's interventions at conference and letters of thanks from Hinton to BPC members.
- H.66 1972. Brief personal correspondence with President of WEC; contributions to Technical Sessions.

Societies and organisations

9th WEC Detroit 1974

Hinton was Chairman of the BPC during preparations for this conference, and also Chairman of the technical programme Division 2 (Environment and the Energy Supply). This conference is in consequence more fully represented by surviving material than others.

In addition to the conference itself in September 1974, there were preliminary meetings of division and session officers, in Buenos Aires, October 1973, and Detroit, November 1973, and a meeting of the National Advisory Council (set up to give advice to the organisers) with the Organising Committee in Washington, May 1974.

Hinton was to receive honorary membership of the American Society of Mechanical Engineers in November 1973, and thus was in America at the time of the Detroit preliminary meeting and able to attend it, as well as the meeting of the National Advisory Council. An extra meeting of the conference session officers was also arranged to take advantage of his presence in America at that time.

During the run-up to the conference, the BNC held an Energy Forum in July 1973, to coincide with its annual general meeting. Hinton, the Royal Society's representative on the BNC, was unable to attend and was replaced by J.S. Forrest.

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| H.67 | 1971. Includes WEC report on environment as affected by energy production. |
| H.68 | 1972 March. Includes draft of 9th WEC technical programme. |
| H.69 | 1972 April, May. Includes invitation to Hinton to chair BPC for 9th WEC, Hinton's draft paper 'Long term energy resources' intended for submission to IEC and his 'Notes on "A Blueprint for Survival"' (special number of <u>The Ecologist</u> , January 1972). A copy of the article and of related editorial and correspondence comment in the scientific press are also included. |
| H.70 | 1972 August, November. Includes list of representatives of firms, government departments, etc. on BPC; 'Technical Program Announcement and Authors' Guide' of conference. |

Societies and organisations

- H.71 1972 December. Material re 'Energy 73' exhibition, and re BPC, including nominations of representatives to serve on Committee, work schedule and Hinton's 'Note' as Chairman on need for high quality papers.
- H.72 1973 February (1). Includes list of representatives nominated to serve on BPC.
- H.73 1973 February (2). Minutes, and synopses of proposed papers, of BPC meeting, 6 February, bearing Hinton's ms. comments, and his type-script notes on WEC technical programme with ms. corrections.
- H.74 1973 March. Division 5 Position paper 'Transportation of Energy'; correspondence re proposed paper on 'British Consents Procedure'.
- H.75 1973 April. Includes minutes of BPC meeting, 3 April, and correspondence re British Consents Procedure paper.
- H.76 1973 May. Includes position paper for Technical Sessions Divisions 1, 3 and 4.
- H.77 1973 June. Includes Hinton's request for copies of papers submitted to Energy Forum, July 1973, as he was unable to attend, his letter commenting on them, and draft of discussion paper for Forum, on energy policy, by Department of Trade and Industry.
- H.78 1973 July. Minutes of annual general meeting of BNC, 27 July; letter from J.S. Forrest agreeing to represent Royal Society at Energy Forum in Hinton's place; correspondence re preliminary meeting in Buenos Aires, October, etc.
- H.79 1975 August. Includes correspondence re preliminary meeting in Detroit, November.
- H.80 1973 September. Includes material re preliminary meetings in Buenos Aires and Detroit.

Societies and organisations

- H.81 1975 October. Hinton's comments on British Consents Procedure paper; arrangements for preliminary meeting in Detroit, etc.
- H.82 1973 November. Agenda and arrangements for preliminary meeting in Detroit; discussion re refereeing British Consents Procedure paper; synopses of British papers for Detroit WEC, with Hinton's ms. notes on them, etc.
- H.83 1974 January, February.
- H.84 1974 ?February. General Report of Division 2.
- H.85 1974 March, April. Includes correspondence re preliminary meetings in Washington and Hinton's 'comments' on Division 2 papers.
- H.86 1974 May-July.
- H.87 1974 August (1). Correspondence re CEEGB participation in Technical Sessions discussion at conference; 'Notes' for BPC meeting, 6 August, with General Reporters' guidelines for each division at conference, bearing Hinton's ms. corrections.
- H.88 1974 August (2). Includes 2 drafts of Hinton's opening remarks as Chairman of Division 2 at conference and correspondence re arrangements for organisation of Division 2 meetings.
- H.89 1974 September. Includes Hinton's 'Chairman's opening remarks' for Division 2, 'draft speech for minister in Detroit' and summing-up speech by Chairman of the IEC Programme Committee.
- H.90 1974 October, November. Letters of thanks to Hinton, and from him to BPC members and Division 2 officers, etc.
- H.91 1975 January. Correspondence re comments by J.M. Flower in Petroleum Gazette, December 1974, on British delegates' contribution to Detroit conference.

Societies and organisations

10th WEC Istanbul 1977

- H.92 1975 March, May. Letter informing Hinton of his selection as Chairman of BPC; draft technical programme of 10th WEC, with Hinton's ms. corrections, and letter commenting on it, etc.
- H.93 1975 June. Revision of technical programme.
- H.94 1975 November, December. Includes Hinton's 'Note' as Chairman of BPC re general theme of conference, 'Availability and Rational Use of Energy Resources', draft technical programme (different version from H.92) and list of proposed British papers for conference.
- H.95 1976 January. Includes correspondence re W.R. Hawthorne's position paper.
- H.96 1976 February. Minutes of BPC meeting, 6 February, and correspondence arising; D.C. Ion's paper 'Future energy resources'.
- H.97 1976 March. Includes continuing correspondence arising from BPC meeting, and position paper for Division 3 of conference.
- H.98 1976 April. Position papers for Divisions 1, 2 and 4.
- H.99 1976 May-September. Includes committee papers of BNC meeting, 10 September.
- H.100 1976 October-December. Includes letter to Hinton re his replacement as Royal Society representative on BNC by J.S. Forrest, correspondence re proposed meeting at conference on 'superconductive cables', and information sent to Hinton re UNESCO forum on energy problems in Paris, May 1976.
- H.101 1977 January, February. Includes travel and other information for British participants of conference.

Societies and organisations

- H.102 1977 April-August. Includes Hinton's letter of thanks to members of BPC, correspondence re conference arrangements for British participants.
- H.103 1977 September. Committee papers of BNC meeting, 2 September, and correspondence re proposal for a conference on conditions governing control of the use of plutonium.
- H.104 1978 June, October.

11th WEC Munich 1980

- H.105 1978, 1979. Includes letter of thanks to Hinton for chairing BPC in respect of the 1974 and 1977 conferences.
- H.106 1980. Includes agenda and minutes of annual general meeting of BNC, 19 August, and 'notes' by Hinton, October, on the conference and the subsequent study tour.
- H.107 1981. Letter of thanks to Hinton from conference organisers, with his reply; information on results of a questionnaire sent by IEC to conference participants.

12th WEC New Delhi 1983

Hinton died before the conference took place.

- H.108 1980. Includes 1p. ms. notes by Hinton on WEC financial control and procedures, and 'Conclusions' of the International Chamber of Commerce conference on 'Energy: a challenge for business' in Lisbon, November 1980.
- H.109 1981 February, April. Information re ICC conference, including address by M. Boiteux 'The Conclusions of the Eleventh World Energy Conference'; report by Oil Substitution Task Force to BNC.

Societies and organisations

- H.110 1981 August. Agenda of annual general meeting of BNC, 4 August.
- H.111 1981 September. Includes minutes of annual general meeting of BNC.
- H.112 1981 November, December. Technical programme and brief related correspondence.
- H.113 1982 February, April. Information re meetings of ICE in 1981 and 1982 and re papers to be submitted for conference.
- H.114 1982 August. Amendment to accounts of BNC for 1981; agenda and minutes of annual general meeting of BNC, 10 August.
- H.115 1982 September, October. Correspondence re proposed sets of standards, especially for simple hydro installations; information for conference participants.
- H.116 1983

Societies and organisations

CONSERVATION COMMISSION

The Commission was established in 1975, with Hinton as its Policy Adviser until his withdrawal in 1981. In 1977 a report on 'World energy demand to 2020' was presented at the Istanbul WEC, and there was a final debate at Banff in 1978; much of the material here concerns preparation of this report. Other material includes committee papers, arrangements for meetings, and related energy studies. See A.9 'Memorandum of activities from 1970 to 1980', p.5.

For further material re report on 'World energy demand to 2020' see D.68.

H.117 1974 November. Arrangements for preliminary meeting, in London, December.

H.118 1974 December. 'Notes' of preliminary meeting; correspondence re World Bank's interest in Commission.

H.119 1975 January. Includes Hinton's note on objectives of Commission.

H.120 1975 September, October. 'Notes' of meeting in Brussels with representatives of the European Communities, September; minutes of Commission meeting in Vienna, October, etc.

H.121 1975 November. Includes material re Hinton's agreement to work with Commission.

H.122 1975 December. Includes list of discussion points re Commission.

H.123 1976 January. Includes Hinton's note on energy availability.

Societies and organisations

- H.124 1976 February. Commission meeting in Vienna, including minutes.
- H.125 1976 March. Includes arrangements for Commission meeting in Paris, April, with Hinton's outline introductory speech.
- H.126 1976 April. Includes committee papers, etc. for Paris meeting.
- H.127 1976 May.
- H.128 1976 June. Includes arrangements for presentation of world energy study findings at 1977 WEC.
- H.129 1976 July. Minutes of Commission meeting in London; list of Commission members; invitations to Hinton to attend Commission meeting in Abidjan, October.
- H.130 1976 August. Includes 'Program for the Energy Demand Study', and draft programme and position paper for 'African energy prospects' symposium in Abidjan, October.
- H.131 1976 September. Arrangements re Abidjan symposium and re drafts of Hinton's address for it. Folder also includes paper by P. Ailleret.
- H.132 1976 October. Includes typescript copy of Hinton's address for symposium, with ms. corrections, and material re Commission and its Resources Group meeting at Abidjan. Also includes material re need for Commission to have preliminary assessment of total world energy demand.
For slides accompanying Hinton's address see K.32.

Societies and organisations

- H.133 1976 November. Energy demand study; proposed meeting in Brussels. Folder also includes report on heat from nuclear reactors and paper on Commission's objectives, both annotated by Hinton.
- H.134 1976 December. Minutes of Commission and its Resources Groups meeting in Brussels, with status report on investigations on future availability of coal.
- H.135 1977 January-March. Minutes of Commission and its Resources Groups meeting in London; representation for 1977 WEC; Hinton's address at Abidjan symposium, etc.
- H.136 1977 April. Includes minutes of Commission and its Resources Groups meeting in Frankfurt.
- H.137 1977 May. Includes correspondence re draft report on demand for power in 2020, with references to Hinton's illness.
- H.138 1977 June. Discussions and comments on world energy demand paper, and others; Hinton's illness, etc.
- H.139 1977 July. Minutes of Commission meeting in Vienna, etc.
- H.140 1977 August-October. Includes summary of study on nuclear process heat applications and correspondence re publicising results of energy demand study.
- H.141 1977 November. Summary of changes to energy demand study; minutes of meetings of Commission, Review Board and Review Board on Resources; correspondence re confusion in use of Joule in measuring energy values.
- H.142 1977 December. Correspondence re use of Joule in energy measurement with reference to energy demand study, including English version of P. Ailleret's 'Joules of electricity and Joules of fuel'; draft Foreword to Executive Summaries of Commission reports, etc.

Societies and organisations

- H.143 1978 January, February. Includes agenda and minutes of Commission meeting, 1 February.
- H.144 1978 March. Drafts of sections of resources chapter of Commission's report, including Hinton's comments.
- H.145 1978 April (1). Drafts of various sections of Commission's report; information re Commission meeting in Budapest.
- H.146 1978 April (2). Draft digest of first chapter of Report, with Hinton's comments; 'Energy conservation' by G.E. Obermair.
- H.147 1978 May. Folder includes Hinton's comments on 'Message' for Banff meeting.
- H.148 1976 June-August. Invitations and arrangements for conferences at Banff and San Francisco, etc.
- H.149 1978 September-October. Includes Hinton's views on papers for Commission's presentation at Banff, and his comments on study tours, popularisation of world energy study report, future work of Commission, etc.
- H.150 1978. Draft paper on 'Energy: a brief retrospect' (no author).
- H.151 1979 (1). 'Summary of - World Energy - Looking ahead to 2020' (Draft of Commission's report). Contents of a folder so inscribed.
- H.152 1979 (2). Popular version of Commission's Report, etc.
- H.153 1980 January. Minutes of Commission meeting in Paris, 'Proceedings' of Commission's 'Energy demand workshop'.
- H.154 1980 March, April. Includes 'Third World Energy Horizons 2000-2020' (Position paper for 11th WEC).

Societies and organisations

- H.155 1980 May. Includes correspondence and drafts re 1980 'Survey of Energy Resources'.
- H.156 1981. Includes material re Commission meeting in Munich, September 1980; letters of thanks to Hinton with his replies.

MISCELLANEOUS CORRESPONDENCE

Contents of a folder inscribed 'Misc. corres. 1974-83'.

- H.157 1974, 1975. Hinton's recollections of Walker Cisler; proposed joint conference with International Atomic Energy Agency; Swedish 1975 Bill on Energy Policy.
- H.158 1976-78. Hinton's nominations for American Society of Mechanical Engineers; Istanbul WEC, including Hinton's comments; proposed WEC membership for Saudi Arabia, etc.
- H.159 1979, 1980. WEC membership for People's Republic of China; Hinton's criticisms of large scale of conferences; his proposal for standards for basic installations in Third World, etc.
- H.160 1981-83. Standards for basic installations in Third World; recommendations of Review Group on 'Conversion factors'; 'Synthesis of French energy balances', etc.

PRINTED MATTER

- H.161 Miscellaneous printed items; constitutions, statutes and reports of WEC.

SECTION J CORRESPONDENCE J.1 - J.84

INTRODUCTION TO SECTION J

J.1 -J.69 CORRESPONDENCE WITH INDIVIDUALS AND ORGANISATIONS

J.70-J.72 SHORTER UNINDEXED CORRESPONDENCE

J.73-J.79 REFERENCES, APPOINTMENTS, RECOMMENDATIONS

J.80-J.84 DAILY CARBONS

This Section represents the contents of Hinton's bulky folders of 'Miscellaneous correspondence' 1969-83, and of his 'Daily carbons' 1978-83.

Most of Hinton's correspondence on research, advisory committees, institutions, publications and other activities was kept with the related material and has been left in place in the appropriate Sections of the collection.

The 'Miscellaneous correspondence' folders bore a note by Mrs. Ellis, 'Examined by Lord Hinton' with dates in December 1981 and April 1982, and also a note that 'From time to time all Lord Hinton's files have been reduced of unnecessary papers'. This process was evidently draconian, but the remaining papers are to be understood as Hinton's considered view of what was of interest or value to him.

As with material elsewhere in the collection, many of the documents bear manuscript notes and comments added by Hinton, perhaps during his reviews of his papers. These remarks are of historical, technical or personal interest, as are the biographical recollections and personal news often included in the copies of letters to old friends and colleagues sent for Christmas, birthdays or other anniversaries.

The 'Daily carbons' have been left intact at J.80-J.84 since much of their interest lies in the record they afford of Hinton's total activity over a given period and at the very end of his career.

Correspondence

CORRESPONDENCE WITH INDIVIDUALS AND ORGANISATIONS

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|-----|---|------------|
| J.1 | Antoine, S. | 1982 |
| | Hinton's reply to questionnaire 'Forward Look Consultation on the Environment'. | |
| J.2 | Arnold, L. | 1977, 1983 |
| | (Letter of 1977, <u>re</u> Calder Hall, not from Hinton). | |
| J.3 | Atherton, W.A. | 1976 |
| | History of electrical engineering, Faraday and Colladon. | |
| J.4 | Bedford, R. | 1973 |
| J.5 | Berrill, K. | 1977, 1978 |
| | Correspondence 1977 is on Central Policy Review Staff report on Power Plant Manufacturing Industry; correspondence 1978 (Hinton's carbon only) is on turbines for AGRs. | |
| J.6 | Bowie, S.H.U. | 1975 |
| | Price of uranium. | |
| J.7 | British Institutes' Joint Energy Policy Programme | 1981 |
| | Inaugural meeting; Hinton's comments on programme. | |
| J.8 | Chilver, H. | 1977, 1983 |
| | Correspondence 1977 includes Hinton's comments on structural failures. | |
| J.9 | Cole, D. | 1970, 1981 |
| | Hinton's carbons only, including recollections and personal news. | |

Correspondence

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| J.10 | Confederation of British Industry | 1970 |
| | Hinton's comments on Green Paper 'Industrial Research and Development in Government Laboratories'. | |
| J.11 | Davies, | 1979, 1982-83 |
| | Hinton's carbons only; visits, recollections, family news. | |
| J.12 | Department of Energy | 1977 |
| | Proposed investigation into off-shore energy. | |
| J.13 | Dobson, L. | 1974 |
| J.14 | Eden, R. | 1982 |
| J.15 | Fitton, J. | 1977 |
| J.16 | Ford, H. | 1981 |
| | Hinton's carbon only, on dynamics of APT. | |
| J.17 | Fores, M. | 1978 |
| | Hinton's carbon only. | |
| J.18 | Fuchs, E. | 1982, 1983 |
| | Recollections. | |
| J.19 | Galloway, D.F. | 1968 |
| | Draft paper on improving productivity in manufacturing industries, with ms. comments by Hinton. | |
| J.20 | Geoghegan, G. | 1974, 1982-83 |
| | Nuclear power in Japan. Correspondence 1982-83 includes recollections of Goro Inouye. | |

Correspondence

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| J.21 | Gowing, M.M. | 1971-75, 1980-81, 1983 |
| | Early correspondence is re M.M. Gowing's history of UK atomic energy and includes comments by Hinton. Correspondence 1980 includes (3 June) Hinton's list of his most important lectures. | |
| J.22 | Halliday, | 1975 |
| | (Hinton's secretary at Risley). Hinton's carbon only. | |
| J.23 | Holford, | 1975 |
| | Letter of condolence. Also included here is a list of Lord Holford's CEEB papers at the University of Liverpool Archives, sent to Hinton in 1982. | |
| J.24 | Hartley, H.B. | 1961, 1970-72 |
| | Includes book review by Hinton. | |
| J.25 | Isherwood, P. | 1982 |
| | Hinton's carbon only; recollections of ICI. | |
| J.26 | Jackson, W. | 1969 |
| | Teaching electrical engineering. | |
| J.27 | Jones, F.E. | 1976 |
| J.28 | Jost, H.P. | 1978, 1981 |
| | Energy shortage. | |
| J.29 | Kearton, F. | 1979 |
| | Hinton's carbons only; speech on energy. | |
| J.30 | Koller, V.P. | 1977, 1981-83 |
| | Former colleague at Risley. Includes (30 November 1981) Hinton's account of his atomic energy papers in the Public Records Office. | |

Correspondence

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|------|--|------------|
| J.31 | Laughton, M.A. and others Electrical power interconnection for Europe. | 1981 |
| J.32 | Liddle, P.H. Brief recollections of First World War. | 1977 |
| J.33 | McAlpine, E. Hinton's brief carbons only. | 1978, 1982 |
| J.34 | McCormack, J.J. Hinton's carbons only; recollections of ICI. | 1973, 1983 |
| J.35 | McDonald, D. Turbine generators for Taiwan. | 1982 |
| J.36 | Mackenzie, C. Energy conservation. | 1981 |
| J.37 | Mackenzie, C.J. Hinton's carbon only; personal news. | 1977 |
| J.38 | Malkin, A. Hinton's carbons only; personal news. | 1980 |
| J.39 | Mann, M. Hinton's carbon only; letter of condolence and recollections. | 1981 |
| J.40 | Maunder, L. Hinton's book 'Engineers and Engineering'. | 1982 |
| J.41 | Ministry of Technology Note by Hinton for the Minister, on 'Technical collaboration with the developing countries'. | 1969 |

Correspondence

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| J.42 | Morrell, D.D. | 1973 |
| J.43 | National Coal Board | 1973 |
| J.44 | National Electricity Board of Malaysia | 1971-72 |
| J.45 | Newman, P.E. Hinton's carbons only. | 1982 |
| J.46 | Norton, H. | 1965 |
| J.47 | Odell, P.R. Centre for International Energy Studies, Rotterdam. | 1982 |
| J.48 | Owen, W.L. Also includes Hinton's carbon letter to Lady Owen, 1982. | 1970 |
| J.49 | Piccagli, M. Engineering projects; personal news. | 1972-73, 1977 |
| J.50 | Pryke, R.W.S. Public Enterprise Group. | 1970 |
| J.51 | Reilly, P. Council of Industrial Design. | 1968 |
| J.52 | Richardson, J.B. Hinton's carbon only. | 1975 |
| J.53 | Rothschild, N.M.V. 1971 item is Hinton's 'thoughts' on 'Government Research and Development'; correspondence 1974 is brief note only. | 1971, 1974 |

Correspondence

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| J.54 | Satake, N. Hinton's carbons only. | 1978, 1982 |
| J.55 | Schon, F. Hinton's carbon only, on UK industry. | 1972 |
| J.56 | Seldon, A. Book on CEGB; oral history. | 1981 |
| J.57 | Shirlaw, D.A. | 1979 |
| J.58 | Smith, S.S. Recollections of Capenhurst and Risley. | 1977 |
| J.59 | Squire, P. Hinton's carbon only. | 1983 |
| J.60 | Sugden, T.M. Combustion Institute. | 1977 |
| J.61 | Surrey, A.J. | 1970 |
| J.62 | Times Higher Education Supplement Enquiry on education for industry. | 1976 |
| J.63 | Ubbelohde, A.R. | 1975 |
| J.64 | United Kingdom Association of Professional Engineers (UKAPE) Hinton's resignation. | 1977 |

Correspondence

| | | |
|------|---|------------|
| J.65 | Vinter, P. On Vinter's paper 'The invention of the steam engine' (draft enclosed). | 1963 |
| J.66 | Whitmore, C. Former colleague at ICI. | 1972, 1983 |
| J.67 | Wilson, C.L. World Coal Study. | 1978 |
| J.68 | Wyll, G.E. | 1982 |
| J.69 | Zuckerman, S. | 1981 |

SHORTER UNINDEXED CORRESPONDENCE

| | | |
|------|--|---------|
| J.70 | Letters of congratulation sent by Hinton (a few with replies) | 1977-82 |
| J.71 | Brief correspondence <u>re</u> books or articles sent to Hinton. | |
| J.72 | Miscellaneous shorter personal correspondence. | |

REFERENCES, APPOINTMENTS, RECOMMENDATIONS

| | | | |
|------|---|------|---------|
| J.73 | 1971-72 | J.76 | 1978 |
| J.74 | 1974-75 | J.77 | 1980 |
| J.75 | 1976 | J.78 | 1982-83 |
| J.79 | Personal requests for references or careers advice. | | |

Correspondence

DAILY CARBONS

A record of Hinton's correspondence 1978-July 1983 on all topics, kept as documentation of his activity in these last years and also because not all the correspondence survives elsewhere.

J.80 1978

J.83 1981

J.81 1979

J.84 1982-July 1983

J.82 1980

SECTION K NON-PRINT MATERIAL K.1 - K.36

| | |
|-------------|--------------------|
| K.1 - K.18 | PHOTOGRAPH ALBUMS |
| K.19 - K.29 | LOOSE PHOTOGRAPHS |
| K.30 - K.34 | SLIDES |
| K.35 | FILM |
| K.36 | GRAMOPHONE RECORDS |

K.1-K.18 PHOTOGRAPH ALBUMS

Most of these albums are commemorative, and were presented to Hinton by those whom he had visited in an official capacity. K.6 - K.8 each contain chronologically-arranged photographs of similar events. Although Lady Hinton often accompanied her husband, the material is essentially 'official', not personal.

| | |
|----------|---|
| K.1 | Visit of British atomic scientists to Ontario hydros, 2 and 3 October 1953. Includes 2 loose photographs. |
| K.2 | Hinton's copy of album presented to Sir Charles Mole 'from friends and colleagues' at the Ministry of Works and UKAEA, December 1954. Includes 1 loose photograph. |
| K.3, K.4 | 2 untitled albums of Japan tour, May 1956. K.3 includes 6 loose photographs. |
| K.5 | Untitled album of the Queen's visit to open Calder Hall power station, 17 October 1956. |
| K.6 | Untitled album of miscellaneous visits, meetings, ceremonies, etc., 1957-61. |

Non-print material

- K.7 Album labelled 'Volume IV', of miscellaneous visits, meetings, ceremonies, etc., 1961-64.
- K.8 Untitled album of miscellaneous visits, ceremonies, etc., 1961-73.
- K.9 Untitled album of dinner in the Hinton's' honour, given by the Kansai Electric Power Co, Kyoyamoto, Kyoto, 1 December 1962.
Includes Hinton's place-card, menu and press-cutting.
- K.10 Opening of Berkeley and Bradwell nuclear power stations, 5 April 1963.
- K.11 'Presentation of good housekeeping trophies at Darlington power station and Durham transmission section', 24 August 1963.
- K.12 Visit to the south-eastern region, CEBG, 20-23 October 1964.
- K.13 Visit to the north-eastern region, CEBG, 17-19 November 1964.
- K.14 Visit to the north-western region, CEBG, 9-12 December 1964.
- K.15 Untitled album commemorating Hinton's retirement from Chairmanship of CEBG, December 1964.
- K.16 Visit to Akosombo Dam site, August 1966.
- K.17 Visit to Nigeria, 30 August-9 September 1966.
- K.18 Visit to Ghana, ?1966.
Includes typescript list of members of West African Group of Professional Engineers appearing in the album.

Non-print material

K.19-K.29 LOOSE PHOTOGRAPHS

With the exception of K.19, showing the 18-year-old Hinton, these photographs are of his later public career. Many have identifications of time and place provided by Mrs. Ellis.

Photographs of Hinton

K.19 Hinton, aged 18, as an apprentice at GWR Swindon. This is the only photograph in the collection of Hinton as a young man. See also K.30.

K.20, K.21 Undated studio portraits.

Visits, ceremonies and gatherings

K.22 Hinton's Induction as Chancellor, University of Bath, 1966.

K.23 Opening of physics and computer buildings, Royal Radar Establishment, 30 April 1971.

Visit of Electricity Supply Research Council (ESRC) Committee to Central Electricity Research Laboratories, Leatherhead, 22 October 1971.

K.24 Visit to The Metal Box Co, January 1973.

Visit to AERE Harwell, 1 February 1973.

Includes copy of Harwell bulletin, reporting visit.

K.25 Visit of ESRC members to C.A. Parsons & Co, October 1976.

The Hinton Luncheon, The Institution of Nuclear Engineers, 18 July 1978.

Non-print material

- K.26 Visit made with Lord Ironside, location unknown, n.d.
- Visit of Sub-Committee F at the House of Lords to a North Sea Oil rig, n.d.

Sites and installations

- K.27 Wylfa nuclear power station, Anglesey.
- K.28 Various BNFL installations.
- K.29 Aerial view of unidentified site.

K.30-K.34 SLIDES

With the exception of K.30 and K.34, these slides were used to illustrate lectures, etc. given by Hinton.

- K.30 2 duplicate slides of the 18-year-old Hinton; see K.19.
- K.31 'Future of power technology', British Electric Power Convention Citrine Lecture, 1965.
2 duplicate sets of slides.
- K.32 Speech given for WEC at Abidjan, October 1976.
2 duplicate sets of slides. See H.132 for text of speech.
- K.33 E.S.U. summer school, n.d.
Set of slides.
- K.34 10 miscellaneous slides, of installations and equipment, n.d.

Non-print material

K.35

FILM

'Christopher Hinton', 1956.

K.36

GRAMOPHONE RECORDS

'The ABC of atomic energy', 7 talks by Hinton for the BBC.

4 records, sent to Hinton February 1959, with advice slip and continuity sheets.

INDEX OF INDIVIDUALS, ORGANISATIONS AND FIRMS

| | |
|--|---|
| ABERDARE, Morys George Lyndhurst Bruce, 4th Baron | D.12, D.159 See also D.134 |
| ACADEMIC PRESS INC. (LONDON) LIMITED | F.213 |
| ADAMS, Sir John (Bertram) | C.77 |
| ADVISORY COUNCIL FOR APPLIED RESEARCH AND DEVELOPMENT (ACARD) | C.115 See also C.116 |
| AEROVENTURE LIMITED | H.72 |
| AGNEW, Sir (William) Godfrey | E.1, F.154, H.3 |
| AGRELL, Peter H. | B.141 |
| AIGRAIN, Pierre Raoul | See C.130, C.144 |
| AILLERET, P. | H.131, H.132, H.142, H.143 See also H.140, H.149 |
| AKERS, Sir Wallace Alan | A.156 |
| ALBU, Austen Harry | A.127 |
| ALDEWERELD, Siem | G.10, G.62, G.76, G.77 See also G.64, G.72 |
| ALDINGTON, Toby (Austin Richard William) Low, 1st Baron | E.8, E.9 |
| ALHEGELAN, Faisal, Sheikh | C.122 |
| ALLAWAY, Percy Albert | C.23, C.218, C.223, C.224, C.226, C.227 |
| ALLEN, F. G. | B.59 |
| ALLEN, Sir Geoffrey | C.139 See also C.138 |
| ALLEN, H. Norman G. | G.67 |
| ALLEN, Richard W. | A.144 |
| ALLEN, William Henry | A.143, A.144 |
| ALLIBONE, Thomas Edward | C.85, C.109 See also B.65, H.17, H.29 |
| ALPORT, Cuthbert James McCall, Baron | H.3 |
| AMERICAN SOCIETY OF MECHANICAL ENGINEERS | C.1-C.6 |
| ANGELINI, Arnaldo M. | H.156 |
| ANGLO-GERMAN FOUNDATION FOR THE STUDY OF INDUSTRIAL SOCIETY | C.98-C.100 |

Index of individuals, organisations and firms

| | |
|---|--|
| ANTOINE, S. | J.1 |
| ARCHER, Norman | A.189 |
| ARCHER, Simon | C.90 See also C.91, C.93 |
| ARMSTRONG, Ellis L. | H.138 |
| ARMSTRONG, Walter J. | G.40, G.52, G.71 |
| ARNOLD, Lorna | F.162, F.164, J.2 See also F.165, F.197 |
| ASHBY, Eric, Baron | A.184, E.6, H.29 See also D.126 |
| ASHTON, H. W. | C.49 |
| ASSOCIATION OF COUNTY COUNCILS | D.6, D.7, D.16-D.20 |
| ATHERTON, W. A. | J.3 |
| ATHLONE PRESS | F.214 |
| ATKINS, Sir William Sydney Albert | C.130, C.163, C.185, C.204 |
| ATKINSON, Sir Leonard Henry | C.36 |
| ATOMIC ENERGY OF CANADA LIMITED | B.68-B.70, B.74, G.20 |
| ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON | F.131 |
| ATWELL, Sir John (William) | C.21, C.97, C.123, F.74 See also C.94, C.96 |
| AUER, Peter L. | H.135 See also H.139 |
| AUSTRALIAN ACADEMY OF TECHNOLOGICAL SCIENCES | C.90, C.93 |
| BAIG, M. T. | G.23 |
| BAINBRIDGE, G. Ronald | H.124, H.126-H.128 See also H.102 |
| BAK, A. K. | H.49 |
| BAKER, John Fleetwood, Baron | C.142, C.161, C.162 See also C.129, C.133 |
| BALDWIN, Nicholas | D.18 |
| BANKS, Andrew | G.1 |

Index of individuals, organisations and firms

- | | |
|--|---|
| BARLOW, Sir (George) William | C.195 See also C.194 |
| BARNES, Robert Sandford | E.14 See also H.102 |
| BARRATT, Sir Sydney | E.13 |
| BASIL BLACKWELL PUBLISHER | F.215 |
| BAXENDELL, Sir Peter Brian | C.187 See also C.188 |
| BARTLETT, John Vernon | C.189, C.190, C.213 |
| BAXTER, John Walter | C.93 |
| BEALING, Ernest | F.156 |
| BEAMISH, David R. | See D.124, D.163 |
| BEARMAN, F. John | A.140 |
| BEAVER, Sir Hugh Eyre Campbell | See H.38 |
| BEBBINGTON, Gwen | A.202 |
| BECHTEL, Stephen D. Jr. | H.79, H.85 See also H.44 |
| BECK, Sir Edgar (Charles) | C.47, C.49 |
| BEDFORD, Ronnie | A.202, J.4 |
| BEEBY, George H. | F.209 |
| BELGRAVE, T. Robert | D.101, J.7 |
| BELLWIN, Irwin Norman Bellow, Baron | D.20, D.163 |
| BENN, Anthony Wedgwood | F.154 See also C.19 |
| BERKOVITCH, Israel | H.152 |
| BERRILL, Sir Kenneth | B.84, B.85, B.105-B.107, B.109, B.112, B.113, C.82, D.6, D.94, J.5 See also C.83, C.93 |
| BESSBOROUGH, Frederick Edward Neufelize Ponsonby, 10th Earl | D.7 See also D.106 |
| BETHEL, David | F.103 |
| BINNIE, Geoffrey Morse | C.122, C.123, C.207, C.208 |
| BIRK, Alma, Baroness | D.157 |
| BIRKS, Jack | C.204, D.99 See also C.166, C.168, C.198 |

Index of individuals, organisations and firms

| | |
|---|---|
| BITTNER, Josef | H.13-H.15 |
| BLACK, Joseph | E.3, E.5, E.11 |
| BLACKETT, Patrick Maynard Stuart, Baron | B.62 |
| BLACKSTONE, P. L. | H.102 |
| BLEASDALE, Cyril | D.105 |
| BLISS, Brian H. | B.81 |
| BOATSWAIN, Tom | A.156 |
| BOISSIER, Roger | H.135 |
| BOMPAS, W. Michael G. | H.1, H.2 |
| BOND, Roland C. | C.42, F.84 |
| BONDI, Sir Hermann | H.29 |
| BOONHAM, Nigel | C.260 |
| BOOTH, Eric Stuart | F.17, G.24, H.19 See also H.27 |
| BORDIA, Otima | H.140 |
| BOURNIVAL, Pierre | F.17 |
| BOWDEN, Frank Philip | H.23 |
| BOWIE, Stanley Hay Umphray | B.78, C.117, C.118, F.162, J.6 |
| BOYLE OF HANDSWORTH, Edward Charles Gurney, Baron | D.5 |
| BRADBURY, John L. | A.202 |
| BRADBURY-WILLIAMS, John C. | See C.259 |
| BRIDLE, Ronald Jarman | C.214, C.215 |
| BRIGGS, Percy | F.76 |
| BRIGHT, Walter N. | A.176 |
| BRITISH AIRCRAFT CORPORATION | C.47 |
| BRITISH ASSOCIATION COORDINATING GROUP | C.7 |
| BRITISH BROADCASTING CORPORATION | B.16, B.17, B.19, B.86, D.8, D.136, F.110, F.113 See also C.121 |
| BRITISH ELECTRICAL AND ALLIED MANUFACTURERS' ASSOCIATION LIMITED (BEAMA) | H.70 |
| BRITISH GAS | D.19, H.96 |

Index of individuals, organisations and firms

| | |
|---|--|
| BRITISH INSTITUTES' JOINT ENERGY POLICY PROGRAMME | J.7 |
| BRITISH NUCLEAR ENERGY SOCIETY | F.109 |
| BRITISH NUCLEAR FORUM | B.94 |
| BRITISH PETROLEUM | C.54, C.204 |
| BRITISH STANDARDS INSTITUTION | D.163 |
| BRITISH STEEL CORPORATION | D.6 |
| BRITISH TRANSPORT DOCKS BOARD | C.181 |
| BROOM, Trevor | A.185 |
| BROWN, Sir Harold Arthur | A.156, A.176, A.189, F.117 See also H.35 |
| BROWNE, Sir Humphrey | C.181 |
| BUNCH, Sir Austin (Wyeth) | G.1 |
| BURHENNE, Wolfgang E. | D.18 |
| BUSHBY, J. W. | H.109 |
| BUTLER, Sir Clifford (Charles) | H.29 |
| BUTLER, (Percy) James | G.8 |
| CADE, J. A. | See B.90 |
| CADWALLADER, Amy D. | E.18 |
| CALDECOTE, Robert Andrew Inskip, 2nd Viscount | A.219, C.21, C.88, C.99, C.132, C.141, C.144, C.157, C.168, C.170, C.186, C.194, C.212, C.221-C.223, C.226, C.227 See also C.178, C.187 |
| CALLAGHAN, (Leonard) James | C.111, C.206 See also C.91, C.109 |
| CALLARD, Sir Eric John (Sir Jack) | C.68, C.79, C.91, C.195 |
| CAMBRIDGE UNIVERSITY ENGINEERS ASSOCIATION | H.1, H.2 |
| CAMM, Sir Sydney | See H.34 |
| CAMPBELL, Ian Macdonald | See C.142, C.158 |
| CAMPBELL, Ronald Hugh | F.134 |
| CAMPBELL, W. Wilson | H.90 See also H.65, H.86 |

Index of individuals, organisations and firms

| | |
|--|---|
| CANE, Alan | J.62 |
| CAREY, Sir Peter (Willoughby) | C.91, C.94, C.218, C.219, C.221, C.226 See also C.213-C.215 |
| CARMICHAEL, Donald | B.76 |
| CARMICHAEL, Ian F. | F.82 |
| CARPENTER, Eric W. | A.185 |
| CARRINGTON, Peter Alexander Rupert, 6th Baron | See F.77 |
| CARTER, H. Desmond | A.179 |
| CARTWRIGHT, Harry | H.9, H.59 See also H.65 |
| CENTRAL ELECTRICITY GENERATING BOARD (CEGB) | A.178-A.185, D.12-D.14, D.125, D.161, D.172, H.75, H.76, H.78, H.87, H.95, H.96, H.159 |
| CENTRAL OFFICE OF INFORMATION | F.19 |
| CHADENET, Bernard | G.77 See also G.20, G.39 |
| CHADWICK, Sir James | A.127, A.156 |
| CHALLIS, Anthony Arthur Leonard | B.93 |
| CHAMBERS, Sir (Stanley) Paul | E.8 |
| CHANDOS, Oliver Lyttelton, 1st Viscount | A.176, A.181, A.189, F.117 See also A.183 |
| CHAPMAN, John Clifford | C.215 |
| CHARKHAM, Jonathan Philip | C.86, C.87, C.91 |
| CHARNOCK, Joan | A.202 |
| <u>CHARTERED MECHANICAL ENGINEER</u> | F.126, F.129, F.130, F.155 |
| CHESTER, Peter Francis | A.185, D.12, D.125, H.29, H.30 See also H.100 |
| CHESTERS, John Hugh | See C.79, H.149 |
| CHIEN, Paul K. | B.65 |
| CHILVER, Sir Henry | D.105, J.8 |
| CHISHOLM, Alexander William John | H.2 |
| CHRISTIE, John | A.156 |

Index of individuals, organisations and firms

- CHU, David S. L. B.86, B.88
See also G.25
- CHURCHMAN, A. Trevor G.1
- CISLER, Walker L. H.52
See also H.45, H.50, H.80,
H.82, H.158
- CITY UNIVERSITY H.3
- CIVIL AVIATION AUTHORITY D.41
- CLARENDON PRESS, OXFORD see
OXFORD UNIVERSITY PRESS
- CLARK, Donald F.65, H.76
- CLARKE, Sir Richard (Otto) F.17
- CLAUSEN, Hugh F.155
- CLAY, Sir Henry See H.64
- CLAYTON, C. G. D.165
- CLAYTON, Sir Robert (James) C.134, C.135, C.140, H.11,
H.12
See also C.121, C.170
- COALES, John Flavell C.16, C.17, C.76, C.77,
C.82, C.83, C.91, C.95,
C.97, C.98, C.102, C.105,
C.108, C.109, C.123, C.185,
D.5
See also C.80, C.84, C.87,
C.90, C.93, C.101, C.103,
C.106, C.110, C.117, C.132,
H.32
- COCKCROFT, Sir John (Douglas) See B.63
- COCKERELL, Sir Christopher C.41
See also C.38
- COLE, Donovan D. W. See J.9
- COLENZO, R. B.77
- COLLINS, Henry Edward C.114, C.116
See also H.65, H.90
- COLLINS, Peter M. D. H.20
- COLMER, Fred C. W. A.185
- COLVILLE, Alan G.42, G.43
- COMBET, G. H.50

Index of individuals, organisations and firms

| | |
|--|--|
| CONFEDERATION OF BRITISH INDUSTRY | D.2, D.14, D.15, J.10 |
| CONGRESS OF CANADIAN ENGINEERS | F.17 |
| CONSOLO, Federico | G.17 |
| <u>CONSULTING ENGINEER</u> | F.203 |
| CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE | H.31-H.41 |
| CONWAY, Hugh Graham | C.10, C.40, C.76, C.79, C.91-C.93, C.104, C.107, C.110, C.112, C.121, C.122, C.127, C.130-C.132, C.139, C.141, C.147, C.150, F.17, H.16 See also C.87, C.117, C.124, C.128, C.140, C.144, C.154, C.161, C.166, C.167, C.169, C.170, C.192, C.209, C.253 |
| CORFIELD, Sir Kenneth (George) | C.26-C.28 See also C.229 |
| COOPER, Andrew Ramsden | C.113, C.114 See also F.198 |
| COOPER, Michael G. | H.2 |
| COTTRELL, Sir Alan (Howard) | A.185, B.94, C.77, E.14, E.17, H.19, H.29 See also H.27 |
| COUNCIL FOR THE PROTECTION OF RURAL ENGLAND | D.17 |
| COUNCIL OF ENGINEERING INSTITUTIONS | A.217, C.8-C.75, C.233, C.243, D.4-D.6, D.165 |
| COUNTRYSIDE COMMISSION | D.9 |
| COX, Herbert J. | A.156 |
| CRAIGTON, Jack Nixon Browne, Baron | D.20 |
| CRANMER, Frank A. | F.77 |
| CRITCHLEY, Octavius | B.80 |
| CROFT, Malcolm | D.19 |
| CROSS, R. C. | E.9 |
| CULHAM LABORATORY | D.6 |
| CULLEN, Alexander Lamb | C.152 See also H.28 |
| CUMMING-BRUCE, Sir Francis | See G.65 |

Index of individuals, organisations and firms

| | |
|---|--------------------------------------|
| CUNNINGHAM, Bernard | A.202 |
| CUNNINGHAM, Edward B. | G.55 |
| CUNNINGHAM, John A. (Jack) | See C.164, C.225 |
| CURRAN, Sir Samuel (Crowe) | H.19, H.29 |
| | |
| <u>DAILY TELEGRAPH</u> | See F.211 |
| DAINTON, Frederick Sydney, Baron | See H.25 |
| DALYELL, Tam | C.164 |
| DAMAN, E. L. | C.2 |
| DAUDEL, R. | H.6-H.8 |
| DAVEY, Betty | A.189 |
| DAVEY, Gethin | A.172 |
| DAVIDSON, John Frank | See H.27 |
| DAVIES, | J.11 |
| DAVIES, Duncan S. | C.101, C.104, C.131, C.137, C.151 |
| DAVIES, E. Peter | See C.259 |
| DAVIES, John | H.44, H.45 |
| DAVIS, Godfrey Rupert Carless | See H.31 |
| DAVIS, W. Kenneth | H.137 See also B.85, B.92 |
| DAWSON, James Gordon | C.174 |
| de FERRANTI, Sebastian Basil Joseph Ziani | C.156, C.157, E.9 |
| DEGUISE, Y. | See H.149 |
| de HEEM, Louis | See H.132, H.133 |
| de JONGH, Nicholas | D.165 |
| DEMUTH, Richard H. | See G.20 |
| DENT, Frederick (James) | See C.45 |
| DEPARTMENT OF ENERGY | J.12 |
| DEPARTMENT OF THE ENVIRONMENT | H.74, H.75 See also H.94 |
| DEPARTMENT OF TRADE AND INDUSTRY | H.83 |

Index of individuals, organisations and firms

| | |
|-----------------------------------|--|
| DERRINGTON, John Anthony | C.145, C.242 |
| DESPRAIRIES, P. | See H.130, H.138 |
| DE VILLIERS, H. J. | H.50 |
| DIAMOND, Jack | C.254 |
| DILLARD, Joseph K. | C.261, H.90, H.137 |
| DIXON, Edith A. | A.202 |
| DOBSON, Leslie | J.13 |
| DODD, Frank Leslie | C.133, C.134 |
| DORSET POLICE | D.131 |
| DOUGLAS, Sir William Scott | A.154, A.156 |
| DOWNS, Diarmuid | H.39 |
| DRUCKER, Daniel C. | C.1 |
| DRUCQUER, Sir Leonard | C.10, C.38, C.39, C.254, F.76, F.149-F.151 See also C.53 |
| DUCKWORTH, John Clifford | C.24, C.52, C.154, C.207, C.208 See also C.39, C.49 |
| DULWICH SOCIETY | H.4 |
| DUMMETT, George Anthony | C.84, D.6 See also C.19, C.51, C.76, C.81 |
| DUNCAN, Sir William Barr Mckinnon | C.187 See also C.188 |
| DUNHAM, Sir Kingsley (Charles) | C.33 See also C.35, C.43, C.140, C.141 |
| DUNICAN, Peter Thomas | C.221 |
| DUNWORTH, John Vernon | B.68, C.44, F.163 |
| DURRANDS, Kenneth James | F.103 |
| DYSON, BELL & COMPANY | C.225, D.132 |

Index of individuals, organisations and firms

| | |
|--|--|
| EAST AFRICAN POWER & LIGHTING COMPANY | G.46 See also G.50, G.51 |
| EASTWOOD, Wilfred | C.29 |
| ECONOMIC RESEARCH COUNCIL | H.5 |
| EDEN, Richard John | C.6, D.157, H.19, H.132, H.137, H.138, H.140, H.142, H.143, H.156, J.14 See also H.122, H.125, H.131, H.133, H.135, H.136, H.148 |
| EDINBURGH, HRH, The Prince Philip, Duke of | C.76, C.78, C.81, C.85, C.107, C.109, C.111, C.210 See also C.17, C.108, C.112, C.118, C.142, C.152, C.181 |
| EDWARDES, Sir Michael (Owen) | See C.150 |
| EDWARDS, Geoffrey | D.127 |
| EDWARDS, Sir George (Robert) | C.47, C.49 |
| EDWARDS, Jack | B.90 |
| EDWARDS, Sir Ronald Stanley | F.154, G.1 |
| EKBERG, Göran | See H.88, H.90 |
| EKLUND, Sigvard A. | G.20 See also G.12 |
| ELLIOTT, Sir Norman (Randall) | G.55 See also G.53 |
| <u>ELECTRICAL REVIEW</u> | F.76 |
| ELECTRICITY COUNCIL | G.1 See also F.197 |
| ELLIS, Phyllis | C.188, C.219 |
| ELSTUB, Sir St. John | C.186, C.187, F.84 |
| <u>ENERGY POLICY</u> | F.216-F.226 |
| ENGINEERING EMPLOYERS' ASSOCIATION | D.165 |
| ENGINEERS' GUILD LIMITED | F.155 |
| ENVIRONMENTAL DATA SERVICES LIMITED | D.161 |
| ESSO PETROLEUM COMPANY LIMITED | D.19 |
| ESSO RESEARCH CENTRE | H.78 |
| ETIENNE, E. H. | H.48-H.50 |
| EUROPEAN ACADEMY OF ARTS, SCIENCES AND HUMANITIES | H.6-H.8 |

Index of individuals, organisations and firms

| | |
|---|---|
| EUROPEAN FERRIES LIMITED | D.8 |
| EUROPEAN NUCLEAR SOCIETY | H.9 |
| EVERSON, Sir Frederick (Charles) | H.4 |
| EZRA, Sir Derek | D.160 |
| FAIRFIELD, Ronald (McLeod) | A.189 |
| FARMER, Frank Reginald | D.152, D.157, H.20, H.27 |
| FARRELL, Robert | A.183 |
| FEDDEN, Sir (Alfred Hubert) Roy | See H.33 |
| FEILDEN, Geoffrey Bertram Robert | C.45, C.131, C.132, H.1 See also H.25 |
| FELLOWSHIP OF ENGINEERING | A.219, C.180-C.248 |
| FELLS, Ian | C.21 |
| FENNING, Frederick William | F.164 |
| <u>FINANCIAL TIMES</u> | B.67 See also B.76 |
| FINCH, J. R. G. | C.30, C.38 |
| FINNISTON COMMITTEE OF ENQUIRY INTO THE ENGINEERING PROFESSION | C.206-C.248, D.164, D.165 |
| FINNISTON, Sir (Harold) Montague | C.207, C.210-C.213, D.6, H.27 |
| FINZI, Ugo | G.13-G.19 |
| FISCHER, David A. V. | G.17, G.20 |
| FISH, Leonard W. | H.135, H.136 See also H.140 |
| FISHLOCK, David | B.67 See also B.76 |
| FITTON, James | J.15 |
| FLECK, Alexander, 1st Baron | A.162, H.21-H.23 See also A.171 |
| FLETCHER, Paul Thomas | C.35 |
| FLOREY, Howard Walter, Baron | A.189 See also H.21 |
| FLOWERS, Brian Hilton, Baron | E.14, H.27, H.29 See also B.69, B.77, D.96 |

Index of individuals, organisations and firms

- FOLSOM, Richard G. C.1, C.2
- FORD, Sir Hugh C.101, C.114, C.116, C.117,
C.126, C.135, C.146, C.154,
C.170, C.174, C.215, F.96,
H.25
See also C.82, C.83, C.86,
C.97, C.113, C.115, C.118,
C.132, C.134, C.173, C.181,
C.213, C.214, J.16
- FORES, Michael H.3
- FORMAN, Nigel D.11
- FORREST, John Samuel F.94, H.24, H.25, H.28,
H.29, H.78
See also H.76
- FOSTER, John S. H.125, H.138, H.142, H.148,
H.149
See also G.17
- FOSTER WHEELER CORPORATION C.2
- FRAME, Sir Alistair (Gilchrist) C.183, C.192
- FRANCE, Sir Arnold William A.195
- FRANCE, Robert A.189
- FRANCIS, Horace William Alexander See C.94
- FRANCIS, Owen G.2
- FRANKLIN, Norman Laurence C.191, H.96
See also H.94, H.102
- FRANKS, C. E. S. B.65, B.66, B.68, B.73,
B.74
See also B.131-B.139
- FRANKS, Oliver Shewell, Baron A.189
- FRASER, Thomas G.2, G.3
- FREEMAN, Sir Ralph C.41, C.42, C.47, H.37
See also H.40
- FREETH, Francis Arthur A.145
- FUCHS, Edgar C.178, J.18

Index of individuals, organisations and firms

| | |
|--|--|
| GAINSBOROUGH, G. F. | C.190, C.250 See also C.149, C.186, C.191 |
| GALLOP, Sam R. | H.10-H.12 |
| GALLOWAY, Donald Frederick | J.19 |
| GAMMELGARD, P. N. | H.85 See also H.88, H.90 |
| GARDNER, G. Anthony | A.157 |
| GARLICK, Sir John | C.115 |
| GEOGHEGAN, Gerald | J.20 |
| GERHOLM, Tor Ragnar | H.121, H.145 See also B.114, H.123, H.128, H.144, H.147 |
| GHALIB, Selchouk Ahmed | B.123 |
| GIBRAT, Robert | See F.17 |
| GIBSON, Joseph | See C.154 |
| GIBSON, N. | C.254 |
| GINNS, Dennis William | C.140 |
| GLUECKAUF, Eugen | See B.82 |
| GOODIER, George W. | A.157 |
| GOSLING, Cyril H. | J.31 |
| GOTT, Howard H. | F.94, H.59 |
| GOURLAY, R. M. | C.204 |
| GOWING, Margaret Mary | A.123, A.215, B.96, C.96, F.67, F.85, F.161-F.163, F.198, F.207, H.31-H.33, H.38, J.21 See also A.9, A.221, B.71, C.100, C.156, D.3, F.77, F.131 |
| GOWRIE, Alexander Patrick Greystell Hore- Ruthven, 2nd Earl | C.227, C.228 |
| GRAHAM, E. D. | D.14, D.15, D.136, D.159 See also D.134 |
| GRAINGER, Leslie | A.203, B.81, H.90, H.131 J.43 |
| GRANADA TELEVISION LIMITED | F.110A |

Index of individuals, organisations and firms

| | |
|---|--|
| GRAY, Charles H. | H.42 |
| GRAY, J. Lorne | B.67, B.68, B.74 See also G.13, G.17 |
| GRAY, John E. | F.90 |
| GREATER LONDON COUNCIL | F.196 |
| GREENWOOD OF ROSSENDALE, Arthur William James, Baron (Anthony Greenwood) | D.11 See also D.16 |
| GREGORY, Roy G. | A.183, H.75, H.76, H.81, H.82 |
| GREGSON, John, Baron | See C.227 |
| GRIZENKO, N. N. | C.133 |
| GROSOFF, David H. | B.94 |
| GROSSMITH, Wilfred | A.190 |
| GROZA, O. | H.66 |
| GUINNESS, J. R. S. | B.107 |
| GUTHRIE BROWN, J. | H.43, H.44, H.47 |
| HÄFELE, Wolf | B.74, B.75 See also F.202 |
| HALL, Sir Arnold (Alexander) | C.6, C.96, C.109, C.130, C.190, C.197, C.214, C.215 See also C.94, C.110, C.192, C.219, E.8 |
| HALL, Richard | E.5 |
| HALL, William Bateman | B.96 |
| HALLIDAY, | B.73, J.22 |
| HALSBURY, John Anthony Hardinge Giffard, 3rd Earl | D.162, D.171 See also D.12 |
| HANCOCK, P. H. D. | D.130 |
| HANDLER, Philip | C.262 |
| HANKS, Reginald | A.141 |
| HANNA, Elsie | E.19 |
| HANNAH, Leslie | A.127 See also F.198 |

Index of individuals, organisations and firms

| | |
|---|--|
| HANNAY, N. Bruce | C.118, C.261, C.262 |
| HANWORTH, David Bertram Pollock, 2nd Viscount | B.93 |
| HAPPOLD, Edmund | C.148, C.152, C.153, C.156 See also C.149 |
| HARDIE, A. M. | E.11, E.13 |
| HARRAP, GEORGE G. & COMPANY | B.65 |
| HARRIS, Sir Alan (James) | C.138-C.143, C.159 |
| HARRIS, Sir William (Gordon) | C.215 |
| HART, Dick E. | H.143-H.146 See also H.82, H.86, H.90 |
| HART, Dame Judith (Constance Mary) | G.53 |
| HART, Michael | B.110, B.113 |
| HARTCUP, Guy | B.91 |
| HARTLEY, Sir Harold (Brewer) | A.170, E.1, F.117, H.21- H.25, H.52, J.24 See also F.65, H.42 |
| HASLAM, (William) Geoffrey | C.112 |
| HATTERSLEY, Roy Sydney George | C.126 |
| HAWKER SIDDELEY GROUP LIMITED | D.7 |
| HAWKINS, Sir Arthur (Ernest) | B.106, B.107 |
| HAWTHORNE, Sir William (Rede) | A.214-A.216, C.6, C.166, C.202, H.1, H.2, H.19, H.24, H.27, H.31, H.94, H.139, H.140 See also C.98, C.99, C.136, H.29 |
| HAYES, G. N. | C.43 |
| HAYTER, Paul D. G. | D.134 |
| HEARN, Richard L. | B.64, B.67, B.74-B.76, B.79, B.82, B.95, G.38 |
| HEATON COOPER, William | F.211 |
| HELLER, László | H.126 |
| HENRY, John M. | B.88 |
| HERBERT, Ernest LeQ. | E.6, E.18 See also C.40 |
| HETHERINGTON, (Arthur) Carleton | D.6, D.7 |

Index of individuals, organisations and firms

- HETHERINGTON, Roger Le Geyt A.198
- HEUGHAN, Donald M. C.38, C.41, C.42, C.47,
C.50-C.52, C.124, C.125,
C.173, H.31
- HILDREW, Bryan C.24
See also C.25, C.229
- HILL, A. J. C.95, C.96
- HILL, F. A.166
- HILL, Sir John McGregor B.78, B.98, B.99, C.190,
D.157, F.162, H.19
See also C.191, F.94, H.92,
H.138
- HILL OF LUTON, Charles Hill, Baron D.5
See also D.94
- HINTON, Joan A.223, F.149
- HIRSCH, Sir Peter (Bernhard) D.172
See also H.29
- HISLOP, George Steedman C.22, C.52, C.218, D.165
- HOLDER, Douglas William E.11, E.12, E.14
- HOLDER, R. W. B.79, E.14
- HOLFORD, Marjorie, Lady See J.23
- HOLFORD, William Graham, Baron A.182, A.190, G.77, G.80,
H.31, H.32
See also G.44, J.23
- HOLLY, M. A.127
- HOOKE, Sir Stanley (George) C.5, C.39, C.188, H.25
See also H.16
- HORLOCK, John Harold C.214
- HORNE, D. G. B. B.105
- HORNER, G. S. E.4, E.6, E.8, E.9, E.11,
E.13-E.17
- HOSKIN, Michael A. A.214, A.215
- HOUNSFIELD, Sir Godfrey (Newbold) H.14, H.15
- HOWELL, Frederick H. G.12, G.23-G.25, G.68,
G.69, G.72-H.75, G.79.
See also G.45, G.52
- HOWELLS, Gordon H. F.162

Index of individuals, organisations and firms

| | |
|--|--|
| HOWELLS, Gwyneth D. | A.185 |
| HUDSWELL BADGER LIMITED | C.43 |
| HUGHES, Gerry | A.203 |
| HULTIN, Sven O. | H.122 |
| HUSBAND, Sir (Henry) Charles | C.78 See also C.79, C.183, H.15 |
| HUTCHISON, Sir (William) Kenneth | C.44, C.48, C.90, C.96, H.15 |
| HUXLEY, Sir Andrew Fielding | C.167 |
| | |
| ILCHESTER, Maurice Vivian de Touffreville Fox- Strangways, 9th Earl | A.175 |
| IMPERIAL CHEMICAL INDUSTRIES LIMITED | A.145-A.150, C.68 |
| INGLIS, Sir Charles Edward | A.144 |
| INGLIS, K. A. D. | F.106 See also H.102 |
| | |
| INSTITUTE OF FUEL | C.21 |
| INSTITUTION OF CHEMICAL ENGINEERS | C.232 |
| INSTITUTION OF CIVIL ENGINEERS | B.77, C.249, F.19, F.88 |
| INSTITUTION OF ELECTRICAL ENGINEERS | C.230, C.238 |
| INSTITUTION OF ENGINEERS, AUSTRALIA | F.155 |
| INSTITUTION OF GAS ENGINEERS | F.195 |
| INSTITUTION OF MECHANICAL ENGINEERS | A.218, C.239, C.251-C.260, F.52, F.74, F.84, F.96, F.149 |
| | |
| INSTITUTION OF MINING AND METALLURGY | F.98 |
| INSTITUTION OF NUCLEAR ENGINEERS | A.207, B.77, B.82-B.84, B.90, F.139 |
| | |
| INSTITUTION OF PRODUCTION ENGINEERS | C.244 |
| INSTITUTION OF STRUCTURAL ENGINEERS | C.242, D.165 |
| INTERNATIONAL BAR ASSOCIATION | D.124 |
| INTERNATIONAL PARLIAMENTARY CONFERENCE ON THE ENVIRONMENT | D.17 |

Index of individuals, organisations and firms

- | | |
|--|--|
| ION, Dan. C. | H.96, H.135, H.137 See also H.65, H.76, H.90, H.97 |
| IPPONMATSU, Tamaki | B.68, B.81, B.83-B.85, B.88, B.96, B.97 See also G.12, G.13 |
| IRONS, A. N. | E.8 |
| IRONSIDE, Edmund Oslac, 2nd Baron | D.97 See also B.93 |
| ISHERWOOD, P. | J.25 |
| ITT BUSINESS SYSTEMS | F.105 |
| | |
| JACKSON OF BURNLEY, Willis, Baron | F.148, F.149, J.26 |
| JANSSENS, Edmund F. | See H.149 |
| JAPAN ATOMIC POWER COMPANY | B.68, B.81, B.84, B.88, B.96, B.97 |
| JAY, Douglas Patrick Thomas | A.203 |
| JELLICOE, George Patrick John Rushworth, 2nd Earl | D.2 |
| JOHNSON, Bertha M. | A.157 |
| JOHNSON, H. R. | See C.100 |
| JOHNSTON, Hugh Philip | See H.90 |
| JONES, Aubrey | A.127 |
| JONES, Francis Edgar | C.167, J.27 See also C.138 |
| JONES, Sir Henry (Frank Harding) | C.86, H.65 See also H.42, H.54, H.68 |
| JONES, Michael J. | F.90 |
| JONES, Sydney | F.84 |
| JONES, (Thomas) Philip | A.185 |
| JOPLING, (Thomas) Michael | See F.211 |
| JOSEPH, Sir Keith (Sinjon) | C.225, C.227 See also C.218, C.223, C.224, C.242, C.245 |
| JOST, H. Peter | C.25, J.28 |
| <u>JOURNAL OF RESOURCE MANAGEMENT AND TECHNOLOGY</u> | F.227 |

Index of individuals, organisations and firms

| | |
|---|--|
| KAPP, John G. | C.27, C.225 |
| KAZI, Raschid | See G.53 |
| KEARTON, Christopher Frank, Baron | A.193, E.8, H.19 See also J.29 |
| KEAY, Ronald William John | C.20 See also H.20 |
| KEITH OF CASTLEACRE, Kenneth Alexander, Baron | C.94, C.188, C.193, D.48 See also C.118 |
| KEITH, Brendon P. | D.94, D.105-D.107 |
| KEITH, D. B. | A.190 |
| KELLY, Anthony | C.223 |
| KENNEDY, Geoffrey F. | D.1, H.86, H.90, H.102 |
| KENNET, Wayland Hilton Young, 2nd Baron | D.95 |
| KENT, Sir Percy Edward (Sir Peter Kent) | C.44 |
| KERENSKY, Oleg Alexander | C.124, H.26 See also C.184 |
| KHAN, I. A. | G.55 See also G.53 |
| KIELY, John R. | H.121-H.123, H.125, H.127, H.128, H.130, H.131, H.138, H.147, H.148, H.156 See also H.88, H.90, H.140 |
| KILMUIR, David Patrick Maxwell Fyfe, 1st Earl | E.8 |
| KIMBALL, Thomas L. | H.88 See also H.90 |
| KIMBER, Derek Barton | C.122 See also C.124 |
| KING, Sir (Clifford) Robertson | A.178 |
| KING, Donald | G.74 |
| KINGS NORTON, Harold Roxbee Cox, Baron | C.81, C.82, C.90, C.98, D.7, D.106, D.168, E.9 See also C.89, C.116 |
| KINNOULL, Arthur William George Patrick Hay, 15th Earl | D.128 |
| KIRWAN-TAYLOR, John | A.177 |
| KISSINGER, Henry Alfred | See H.89 |

Index of individuals, organisations and firms

- | | |
|---|--|
| KNIGHT, Sir Arthur (William) | C.191, C.194 |
| KNOX, A. David | G.36, G.37, G.39-G.44, G.66-G.71 See also G.46 |
| KOLLER, Victor P. | F.134, J.30 |
| KOST, H. | See H.50 |
| KOTZÉ, David J. | H.135 |
| KROMER, Carl Theodor | H.59 |
| KRONBERGER, Hans | B.61, B.62, H.25 See also B.72 |
| KURTI, Nicholas | B.71, D.155, H.29, H.31, H.32 |
| | |
| LAING, Sir (William) Kirby | See C.138 |
| LANE, Francis John | F.88 |
| LANGFORD-HOLT, Sir John (Anthony) | D.128 |
| LAUDERDALE, Patrick Francis Maitland, 17th Earl | A.203, D.94-D.97, D.100 See also D.12 |
| LAUGHTON, M. A. | J.31 |
| LAWSON, Nigel | D.106 |
| LEAKEY, Arundell Rea | C.194, C.201, C.203 |
| LEASON, Dennis B. | H.101, H.102 See also H.90, H.96 |
| LEBEDEV, B. | See H.44 |
| LEE OF NEWTON, Frederick, Baron | A.182 |
| LEEMING, John Coates | C.213, C.225, C.226 See also C.218, C.227 |
| LEES, Norman D. | A.150 |
| LEIGH, Sir Neville (Egerton) | H.3 |
| LEIGHTON, Leonard Horace | H.65, H.108 See also H.90, H.102 |
| LEONARD, Michael William | Section C <u>passim</u> . D.4, D.163, F.65, F.90, F.95, F.158, H.32 See also D.165, F.77, F.198 |

Index of individuals, organisations and firms

| | |
|---|---|
| LESLIE, David Clement | B.96 |
| LEVY, S. I. | A.157 |
| LEWINS, Jeffery | B.82, B.83 |
| LEWIS, Wilfrid Bennett | B.69, B.70, B.85 |
| LICKLEY, Robert Lang | C.130, C.207, H.8, H.34 See also C.131 |
| LIDDLE, Peter H. | J.32 |
| LIGHTHILL, Sir (Michael) James | C.40, C.42, C.49, C.148, H.26 See also C.43 |
| LINDLEY, Sir Arnold (Lewis George) | C.29, C.179, C.254 See also C.46, C.101 |
| LINDOP, Sir Norman | F.102 |
| LINGARD, (Peter) Anthony | See G.68, H.65 |
| LISTOWEL, William Francis Hare, 5th Earl | D.2 |
| LITHGOW, John C. | G.33, G.64-G.66 See also G.24, G.25 |
| LITTLER, Derrik J. | A.183, D.13, D.14, H.159 |
| LLOYD OF KILGERRAN, Rhys Gerran, Baron | C.117 See also C.113 |
| LLOYD, Sir Ian Stewart | C.91, C.95, C.98 See also C.94, C.97 |
| LOGAN, Robert Y. | A.203 |
| LOMER, Dennis Roy | A.185 |
| LONDON & SCOTTISH MARINE OIL COMPANY LIMITED | D.17 |
| LOPEZ-TOLEDO, Alejandro A. | C.266 |
| LORD, John L. | A.194 |
| LOVEJOY, Derek | D.18 |
| LOVELL, Stuart Maynard | C.128, C.129 |
| LOW, Roger V. | H.4 |
| LOWRY, David | A.126, B.96 |

Index of individuals, organisations and firms

| | |
|---|--|
| McALPINE OF MOFFAT, Robert Edwin, Baron | B.75, B.123, E.9 See also J.33 |
| McCORMACK, Jack J. | J.34 |
| McCORMICK, James P. | H.157 |
| McDONALD, Sir Duncan | J.35 |
| McEWEN, Ewen | F.85 See also C.9, H.102 |
| MACFARLANE, Sir George (Gray) | C.49, C.124 See also C.44, C.147, C.187 |
| McGOWAN, Harry Duncan, 1st Baron | A.149 |
| McKAY, Alexander Matthew | C.259, C.260 |
| MACKENZIE, Caroline | J.36 |
| MACKENZIE, C. J. | J.37 |
| McLAREN, Norman H. | F.211 |
| McLEAN, Andrew S. | F.202 |
| McLENNAN, Sir Ian (Munro) | C.90, C.93, C.96, C.122 See also C.94, C.123, C.144 |
| McNAMARA, Robert Strange | G.75 |
| M'PHERSON, P. K. | H.11 |
| MADDOCK, Sir Ieuan | C.88-C.90, H.19 |
| MAIR, William Austyn | H.2 |
| MAIS, Alan Raymond, Baron | C.96, C.98, C.103, C.104, C.106, C.107, C.109, C.110, C.141, C.164, C.182, C.186, C.221 See also C.94, C.97, C.99, C.102, C.132 |
| MALKIN, Alec | J.38 |
| MANN, Michael | J.39 |
| MANNING, Eric | A.203 |
| MANNING, W. R. Dermot | C.181 |
| MAPPIN, David | D.9 |
| MARKOVA, Dame Alicia | E.5 |
| MARLEY, W. G. | See F.202 |
| MARSH, Nevill Francis | G.1 |

Index of individuals, organisations and firms

| | |
|---|---|
| MARSHALL, Walter Charles, Baron | D.172, E.14, H.19, H.27, H.28, J.12 |
| MARSHAM, Thomas Nelson | F.91, F.211 |
| MARTIN, Sir David Christie | C.45, H.18, H.19, H.21, H.31, H.32 See also H.23, H.24, H.26, H.27 |
| MARTIN, Sir James | C.189 |
| MASON, Sir Frank (Trowbridge) | C.251 |
| MATHESON, Sir (James Adam) Louis | C.155, C.156 |
| MATTHEWS, Denis Dearman | C.207 |
| MATTHEWS, Paul Taunton | E.5, E.6, E.16, E.18, E.19 |
| MATTOCKS, John | E.15 |
| MAUNDER, Leonard | J.40 |
| MAXWELL, (Ian) Robert | F.196-F.198 See also C.156, C.207 |
| MAXWELL, William Wayland | C.142 |
| MEITNER-GRAF, Lotte | A.196 |
| MELLING, Cecil Thomas | A.210, F.198 |
| MELVILLE, Sir Harry (Work) | F.106 |
| MENSFORTH, Sir Eric | C.42, C.43, C.89, C.94, C.95, C.98, C.99, C.101- C.105, C.107-C.110, C.112- C.114, C.116, C.132, C.137, C.138, C.183, C.187, C.188, C.206, C.207, C.253, D.101 See also C.190 |
| MENTER, Sir James (Woodham) | C.115 See also C.116, C.152 |
| MENUHIN, Sir Yehudi | E.3 |
| MEREDITH, K. E. G. | E.15 |
| MERRIMAN, James Henry Herbert | F.88 |
| MERRISON, Sir Alexander Walter (Sir Alec Merrison) | See C.151 |
| MICHAEL JOSEPH LIMITED | F.228 |
| MICHAELS, Michael Israel | B.63 |

Index of individuals, organisations and firms

| | |
|---|---|
| MILLER, Donald John | D.157 |
| MILLS, (Laurence) John | C.190 |
| MILLS, Percy Herbert, 1st Viscount | A.178, A.190 |
| MINES, Myra E. | A.224 |
| MINISTRY OF POWER | H.51 |
| MINISTRY OF SUPPLY | A.151-A.155 |
| MINISTRY OF TECHNOLOGY | J.41 |
| MINISTRY OF TRANSPORT | G.2-G.8 |
| MINSHALL, E. | E.3, E.6, E.17-E.19 |
| MITCHELL, Clive A. J. | D.52, D.54, D.94-D.96, D.98-D.100, D.135, D.151 See also D.19, D.59, D.60, D.123 |
| MONTGOMERY, J. E. | A.190 |
| MOORADIAN, A. J. | See H.125 |
| MOORE, George Herbert | E.1-E.3, E.8, E.11-E.13, E.15 |
| MOORE, R. V. | B.110 See also B.109 |
| MORGAN, C. | C.204 |
| MORGAN, Rowland | See C.227 |
| MORRELL, David D. | A.190, J.42 |
| MORRIS, H. | F.65 |
| MORRIS, Idris J. | A.157 |
| MORRIS, James Richard Samuel | C.184, C.187, C.188, C.190 See also C.138, C.183, C.191 |
| MORRISON, John Lamb Murray | C.195, C.257 |
| MORTIMER, Gerald James | C.26-C.29, C.122 See also C.174, C.181 |
| MOUNTBATTEN OF BURMA, Louis (Francis Albert Victor Nicholas), 1st Earl | C.84, C.105, C.107, C.132 See also C.103, C.141, C.143 |
| MOYAL, Ann | B.78-B.80 |
| MUIR WOOD, Sir Alan (Marshall) | C.118, C.136, C.137, C.213, F.156 See also C.110 |

Index of individuals, organisations and firms

| | |
|---|--|
| MULLENS, Sir Harold (Hill) | E.9 |
| MUMMERY, Peter W. | A.173 |
| MUNRO, Jack | A.157 |
| MURRAY-LASSO, M. A. | C.265 See also C.94 |
| MUSSON, A. E. | C.156, C.157 |
| | |
| NAGRANI, B. T. | H.160 |
| NASSIKAS, John N. | H.63, H.64 |
| NATIONAL ACADEMY OF ENGINEERING | C.80, C.261-C.264 |
| NATIONAL ACADEMY OF ENGINEERING (MEXICO) | C.265, C.266 |
| NATIONAL COAL BOARD | D.160, J.43 |
| NATIONAL ELECTRICITY BOARD OF MALAYSIA | J.44 |
| NATIONAL FEDERATION OF CLAY INDUSTRIES LIMITED | D.15 |
| NATIONAL WATER COUNCIL | D.10, D.127 |
| <u>NATURE</u> | F.204, F.228 |
| NELSON OF STAFFORD, George Horatio, 1st Baron | A.179 |
| NELSON OF STAFFORD, Henry George, 2nd Baron | C.90, C.198, F.74, H.70, H.75, H.78, H.82, H.90, H.159 See also C.88, C.193 |
| NEPOROZHNY, P. | H.48-H.51 |
| <u>NEW CIVIL ENGINEER</u> | See F.212 |
| NEWMAN, P. E. | See J.45 |
| <u>NEW SCIENTIST</u> | F.134, F.205 |
| NICHOLS, John Winfrith de Lisle | See C.107 |
| NICHOLS, Roy Woodward | C.178, C.213 See also C.179 |
| | |
| NICHOLSON, (Edward) Max | D.161, G.78 |
| NICHOLSON, R. L. R. | See H.90 |
| NICOLSON, Sir David (Lancaster) | C.189 |

Index of individuals, organisations and firms

| | |
|--|---|
| NORTON, Harry | J.46 |
| NOTT, Robert | See C.95 |
| <u>NUCLEAR ENGINEERING INTERNATIONAL</u> | F.135 |
| NUFFIELD FOUNDATION | D.10 |
| NUGENT OF GUILDFORD, George Richard Hodges, Baron | B.127, D.10, D.127 |
| | |
| OAKLEY, Brian Wynne | C.118, C.151 |
| OATLEY, Sir Charles (William) | H.26, H.27 |
| O'BRIEN OF LOTHBURY, Leslie Kenneth, Baron | E.9 |
| O'BYRNE, Brendan | A.204 |
| ODELL, Peter R. | J.47 |
| OLBY, Robert C. | B.84 |
| ONTARIO HYDRO | B.74, B.76 |
| OPEN UNIVERSITY | F.112 |
| OPPORTUNITIES FOR THE DISABLED | H.10-H.12 |
| ORR-EWING, (Charles) Ian, Baron | F.17 |
| ORSON, Rasin Ward | H.102 |
| ÖSTERREICHISCHER GEWERBEVEREIN | H.13-H.16 |
| OTT, Gerhard | H.105-H.107 |
| OWEN, Sir (William) Leonard | A.186, J.48 See also B.68 |
| OXFORD UNIVERSITY PRESS | F.148, F.150-F.156, F.161, F.162, F.165, F.166 See also F.228 |
| | |
| PADMORE, Sir Thomas | G.2 |
| PAGE, Sir Frederick (William) | C.139, C.193 |
| PALMER, Arthur Montague Frank | C.31 |
| PARDOE, John George Magrath | D.41 |
| PARKER, Sir Peter | A.142 |

Index of individuals, organisations and firms

| | |
|--|---|
| PARKER, Sir Roger (Jocelyn) | B.83 |
| PARKES, Sir Edward (Walter) | H.1 |
| PARLIAMENTARY LIAISON GROUP FOR ALTERNATIVE ENERGY STRATEGIES | D.20 |
| PASCHKE, Fritz | H.14-H.16 |
| PASHLEY, Donald William | H.28 |
| PATON, Sir (Thomas) Angus (Lyll) | C.48, C.86, C.93, C.141, C.189, G.56, H.26, H.38 See also C.181, C.188 |
| PATTERSON, Walter C. | F.204 See also B.78 |
| PEARCE, Sir Austin William | C.186-C.188 |
| PEART, (Thomas) Frederick, Baron | See C.183 |
| PEASE, Rendel Sebastian | D.6 See also D.49 |
| PEIRSON, David Edward Herbert | A.164-A.167, G.25 See also G.38 |
| PEIRSON, Norah Ellen | A.204 |
| PELIZA, Robert John | D.17 |
| PELLEREAU, Peter John Mitchell | C.206 |
| PEMBERTON, H. N. | See C.9 |
| PENNELL, Montague Mattinson | C.189, C.190 |
| PENNEY, William George, Baron | A.186, B.63, B.66, B.91, E.11-E.13, F.161, H.19, H.21, H.22, H.25-H.28 See also B.65, F.211, G.12, H.15 |
| PERGAMON PRESS LIMITED | F.196-F.198, F.228 |
| PERKINS, Courtland D. | C.80, C.101, C.261-C.264 See also C.87 |
| PERROTT, Sir Donald (Cyril Vincent) | A.155, A.162-A.168 |
| PICCAGLI, Mario | G.12, G.13, G.17-G.20, G.23-G.25, G.30, G.32, G.34-G.36, G.38, G.45, G.67-G.69, G.71-G.73, J.49 See also F.15, G.11, G.64, G.65, G.78 |

Index of individuals, organisations and firms

- PILKINGTON, Sir Lionel Alexander Bethune (Sir Alastair) H.13, H.15
- PIPPARD, Sir (Alfred) Brian H.29
- PITMAN, Sir (Isaac) James C.96, C.97, E.1, E.5, E.6, E.13, E.14, E.19
- PLATT, Kenneth Harry A.218, C.251, C.253-C.259, F.74
- PLEASANCE, Simon B.95
- PLOWDEN, Edwin Noel, Baron A.164, A.172, A.173, A.176, A.204, B.140, D.19
- PLUMPTON, Alan A.185
- PORTAL, Charles Frederick Algernon, Viscount See B.82
- PORTER, Sir George F.196
See also H.17
- POWER NEWS F.123
- POWNALL, Michael G. D.94, D.101-D.104
- PRESTON, Richard A.191
- PRINGLE, Sir Charles (Norman Seton) C.20, C.51, C.88, C.91, C.103-C.109, C.115, C.116, C.182, C.183
See also C.96, C.99, C.100, C.206
- PROCTOR, Sir (Philip) Dennis See A.180, A.191
- PROUDLOCK, Michael D.6
- PRYCE, Freda Mary (Mrs. M.H.L. Pryce) B.65
- PRYKE, Richard W. S. J.50
- PUCKEY, Sir Walter (Charles) C.79
- PUGSLEY, Sir Alfred Grenville See C.117
- PYE, Sir David (Randall) See H.36
- RAMANATH, A. J.44
- RAMPTON, Sir Jack (Leslie) C.124
See also C.117, C.118, C.125, H.158
- RAPER, Sir (Robert) George C.83, C.91
See also C.84

Index of individuals, organisations and firms

| | |
|--------------------------------------|---|
| RATCLIFFE, John Ashworth | H.23 See also A.197 |
| RAWCLIFFE, Gordon Hindle | E.56 |
| REDMOND, Sir James | See C.121 |
| REDSHAW, Seymour Cunningham | E.1 |
| REEVE, Suzanne E. | B.98, B.99, B.103 |
| REID, A. | A.158 |
| REID, Donald Andrew Gladstone | C.207, C.208 |
| REID, Sir William | C.147 See also C.141 |
| REILLY, Sir Paul | J.51 |
| RICARDO, Sir Harry (Ralph) | See H.39 |
| RICHARDS, B. D. | A.158 |
| RICHARDS, Denis George | B.76, B.82 |
| RICHARDSON, Frederick Denys | C.43 |
| RICHARDSON, J. B. | See J.52 |
| RICHARDSON, Ronald Frederick | H.122 |
| RICHARDSON, W. Norman B. | F.209 |
| RIDDLES, Robin A. | A.192 |
| RIDGEWELL, C. A. | A.204 |
| RIDLEY, M. | C.162 |
| RIPPON, Joan | D.161 |
| RITCHIE-CALDER, Peter Ritchie, Baron | D.166 |
| ROBERTS, Sir Gilbert | See H.37 |
| ROBERTS, G. S. | C.68 |
| ROBINSON, Norman H. | H.30, H.32 |
| ROLLS-ROYCE LIMITED | D.48 |
| ROOKE, Sir Denis (Eric) | C.97, C.98, C.131, C.134, C.140, H.8, H.65 See also C.94, C.96, C.101, C.110, C.137, C.187, H.90 |
| ROSS, R. D. | A.158 |

Index of individuals, organisations and firms

- | | |
|---|--|
| ROTHERHAM, Leonard | B.72, B.75, B.109-B.112, C.133, C.145, C.147, C.202, C.203, D.1, D.3, E.3-E.5, E.13-E.18, H.1, H.24 See also B.68, H.27, H.29, J.12 |
| ROTHSCHILD, Nathaniel Mayer Victor, Baron | B.98, B.103, D.157, E.19, J.53 See also D.2, D.95, H.86 |
| ROWE, Norbert Edward | C.78, C.110, C.111 |
| ROWNTREE, Sir Norman Andrew Forster | C.262, F.88 |
| ROYAL INSTITUTE OF CHEMISTRY | F.95 |
| ROYAL INSTITUTE OF PUBLIC ADMINISTRATION | F.207 |
| ROYAL INSTITUTION | H.17 |
| ROYAL SOCIETY | C.234, H.18-H.41, H.100 |
| ROYAL SOCIETY OF ARTS | F.109 |
| RUTTLEY, Eric | D.104, H.42-H.45, H.47- H.60, H.62-H.64, H.66-H.79, H.81-H.86, H.88-H.90, H.92- H.97, H.99-H.107, H.109, H.111-H.115, H.117-H.123, H.125-H.133, H.137-H.142, H.145, H.147-H.149, H.152, H.155-H.160 |
| RYDER OF EATON HASTINGS, Sydney Thomas Franklin (Don), Baron | C.93 |
| RYLE, Sir Martin | C.144 |
| RYMAN, Brenda Edith | C.113, C.116 See also C.121 |
| SAGANE, Ryokichi | G.10-G.12 |
| SALISBURY, Robert Arthur James Gascoyne-Cecil, 5th Marquess of | A.164, A.176 |
| SARGENT, Roger William Herbert | See C.85 |
| SATAKE, Naoko | See J.54 |
| SAUNDERS, Sir Owen (Alfred) | A.179, H.18 |

Index of individuals, organisations and firms

| | |
|--|---|
| SCHON, Sir Frank | J.55 |
| SCHUSTER, Günther | D.59 |
| SCIENCE RESEARCH COUNCIL | C.113, C.114 See also C.116 |
| SCOTT, Sir Bernard (Francis William) | See C.187, C.190 |
| SCOTT, E. C. | G.65 |
| SCOURFIELD, J. H. David | D.105, D.124-D.127 |
| SEABORG, Glenn T. | See G.13 |
| SEGAL, N. S. | B.64 |
| SELBY, Sir Kenneth | E.6, E.18 |
| SELDEN, Anthony | J.56 |
| SEQUENZ, Heinrich | H.13, H.14 |
| SHACKLETON, Edward Arthur Alexander, Baron | C.187, C.191, C.192, D.17 |
| SHANNON, Richard Bentinck Boyle, 9th Earl | C.20, D.9, D.17 |
| SHARPE, Avril | C.40-C.43 |
| SHARPE, PRITCHARD & COMPANY | C.85, C.95, C.102, C.103, D.132 |
| SHAW, Milton | B.68, B.69 |
| SHAW, T. L. | D.9 |
| SHEEHAN, Richard H. | G.70-G.74 |
| SHELL U.K. LIMITED | D.19 |
| SHEPHEARD, Michael | H.56, H.59 |
| SHERFIELD, Roger Mellor Makins, Baron | B.86, D.101-D.103, D.157, E.9 See also B.87, D.69 |
| SHERWELL, T. G. | A.158 |
| SHERWOOD & COMPANY | D.135 |
| SHETLAND ISLANDS COUNCIL | D.10 |
| SHIRLAW, David A. | B.94, J.57 |
| SHORE, David Teignmouth | C.155, C.156 |
| SHORTER, Roger | C.51 |
| SIEMENS, Peter von | H.107 |
| SIMON, John Gilbert, 2nd Viscount | D.6 |

Index of individuals, organisations and firms

| | |
|---|---|
| SIMS, Raymond Bernard | C.130, J.10 See also C.132 |
| SMITH, Alan | C.79, C.261 |
| SMITH, Sir Alexander Mair (Sir Alex) | See C.89 |
| SMITH, Sir (Frank) Ewart | C.178, H.25 See also A.150 |
| SMITH, Harold A. | B.74, B.76 See also G.17 |
| SMITH, Harold Octavius | A.150 |
| SMITH, Samuel Spencely | J.58 |
| SOUTH OF SCOTLAND ELECTRICITY BOARD | D.157 |
| SPEED, (Herbert) Keith | D.128 |
| SPENCE, Robert | H.86 |
| SPENCER, Sir Kelvin (Tallent) | B.83, B.84 |
| SPORN, Philip | B.61, B.62, G.76, G.77, H.22 |
| SQUIRE, Philip | See J.59 |
| STEELE, Fiona N. | C.13, C.47-C.51, C.159, C.170, C.175 See also C.35, C.156 |
| STEVENSON, Harold W. | A.158 |
| STEWART, James Cecil Campbell | G.13 |
| STOKES, Donald Gresham, Baron | F.74 See also C.78 |
| STOTT, Peter Frank | D.127 |
| STRACHAN, Graham Robert | C.213 |
| STRANG, William John | C.107 |
| STRASZACKER, Reinhart L. | H.95 See also H.131 |
| STRATHALMOND, William Fraser, 2nd Baron | F.65 |
| STRIKE, Ross | G.62, G.63 |
| STRONG, Sir Roy (Colin) | A.196 |
| SUAREZ, Alejandro, Count | H.89 |
| SUGDEN, Sir (Theodore) Morris | C.40, J.60 |

Index of individuals, organisations and firms

| | |
|--|---|
| SUTHERLAND, Sir Gordon (Brims Black Mc Ivor) | H.21 |
| SURREY, A. J. | J.61 |
| SWANN, Michael Meredith, Baron | B.86, B.88 |
| SYKES, Sir Charles | H.23 |
| SYNCRUDE CANADA LIMITED | See H.149 |
| TAIWAN POWER COMPANY | B.65, B.86, B.88, G.24-G.26 |
| TANAKA, Seiichi | J.20 |
| TANLAW, Simon Brooke Mackay, Baron | D.12-D.14 |
| TATLOCK, John | See C.134, C.135 |
| TAVERNIER, Guy | H.9 |
| TETT, Sir Hugh (Charles) | E.8 |
| TCHETCHIK, A. | H.47-H.50 See also H.44 |
| THAMES WATER | D.127 |
| THATCHER, Margaret (Hilda) | C.145, C.146 See also B.89 |
| THATCHER, Mary L. | A.190 |
| THOMPSON, C. N. | F.95 |
| THORLEY, Charles Graham | D.49, D.96 |
| THRING, Meredith Wooldridge | C.84-C.87, C.153 |
| THWAITES, Bryan | E.3 |
| TILEY, P. F. | E.2, E.3 |
| <u>THE TIMES</u> | See C.169, F.208-F.210, F.212 |
| <u>TIMES HIGHER EDUCATION SUPPLEMENT</u> | J.62 See also F.206 |
| TINNION, F. S. | E.1 |
| TIZARD, R. H. | C.106 |
| TODD, Alexander Robertus, Baron | C.20, C.86, C.153, C.162, C.166 See also C.88, C.141, C.148, C.160, C.163, C.164 |

Index of individuals, organisations and firms

| | |
|--|---|
| TODD, (Alfred) Norman | G.68 |
| TOMBS, Sir Francis (Leonard) | B.85, B.86, C.96, C.139, C.155, C.167, C.170, C.174, C.176, C.189, F.96, H.104 See also C.94, C.140, C.152, C.154, C.158, C.159 |
| TOTAL OIL MARINE LIMITED | D.5 |
| TOTTLE, Charles Ronald | E.13 |
| TOWNSEND, J. | B.97 |
| TREVITHICK, Richard | A.141 |
| TRIER, Peter Eugene | C.192 See also C.117, C.188 |
| TURNBULL, John E. | D.104, D.105 |
| TURNER, E. J. (Jack) | E.8, G.10, G.24, G.25, G.62 G.63 |
| TURNER, Sir George Wilfred | A.191, C.66 |
| TWEEDSMUIR OF BELHELVIE, Priscilla Jean Fortescue Buchan, Baroness | D.95, D.96 |
| UBBELOHDE, Alfred Rene John Paul | J.63 |
| UGANDA ELECTRICITY BOARD | G.44 See also G.47, G.50, G.51 |
| UNION INTERNATIONALE DES PRODUCTEURS ET DISTRIBUTEURS D'ENERGIE ELECTRIQUE (UNIPEDE) | H.141 |
| UNITED KINGDOM ASSOCIATION OF PROFESSIONAL ENGINEERS (UKAPE) | C.83, J.64 |
| UNITED KINGDOM ATOMIC ENERGY AUTHORITY | A.170-A.175, D.152, D.157, D.172, F.136 |
| UNITED STATES ATOMIC ENERGY COMMISSION | B.68, B.69 |
| UNIVERSITY OF BATH | C.235, C.236, E.1-E.65 |
| USHERWOOD, Kenneth Ascough | E.9 |

Index of individuals, organisations and firms

| | |
|--|---|
| VALLANCE WHITE, James Ashton | D.6, D.94 |
| VARLEY, Eric Graham | C.206 See also C.107 |
| VENABLES, Sir Peter (Percy Frederick Ronald) | E.4 |
| VERITY, Conrad Edward Howe (Charles) | C.2 |
| VERNON, Kenneth Robert | See H.65 |
| VICKERS, Basil | F.136 |
| VINE, Philip H. | E.19 |
| VINEY, T. L. | E.4 |
| VINTER, (Frederick Robert) Peter | J.65 |
| | |
| WAGNER, Sir Anthony (Richard) | D.4 |
| WAKEFIELD, Ernest H. | C.83, J.64 |
| WALKER, Peter Edward | See D.128 |
| WARD, J. M. | F.63, F.95 |
| WARREN, Peter Tolman | H.20 |
| WATKINS, George Middleton | E.4, E.17 |
| WATSON, John Garth | A.198, B.77, C.30, F.88, F.109, H.38 |
| WECK, Richard | C.178 |
| WEDGWOOD, John Alleyne | G.1, G.66 |
| WEINER, Mervyn L. | G.53-G.55, G.60, G.72, G.73, G.78 |
| WEINSTOCK, Arnold, Baron | E.6 |
| WELLS, Alan Arthur | C.178, C.179 |
| WELSH, Ian | B.93, B.94 |
| WESTBURY, David Alan Bethell, 5th Baron | D.159 |
| WESTMINSTER SCHOOL | C.121 |
| WESTON, Dame Margaret (Kate) | C.160, C.161 See also C.157 |
| WHEELER-BOOTH, Michael Addison John | D.94 |

Index of individuals, organisations and firms

| | |
|---|---|
| WHITE, Cecil B. | D.7 |
| WHITE, Charles H. | G.36, G.39, G.40, G.44, G.66, G.69, G.72 |
| WHITE, Eirene Lloyd, Baroness | A.205, D.163 |
| WHITMORE, Charles | J.66 |
| WHITTLE, Sir Frank | C.125, C.191, C.192 |
| WHITTLE, Ian | E.15 |
| WHYTE, John Stuart | C.155 |
| WICKENDEN, K. D. | D.8 |
| WIENECKE, R. | D.155 |
| WIGLEY, P. | H.20 |
| WILCOX-BAKER, J. R. | A.175 |
| WILD, Ray | See C.19 |
| WILLEY, Frederick Thomas | See D.128 |
| WILLIAMS, Sir Edgar (Trevor) | C.99 See also F.215 |
| WILLIAMS, Sir Frederic (Calland) | H.23 |
| WILLIAMS, Roger | F.207 |
| WILLIAMS, Trevor Illtyd | F.161-F.166 |
| WILSON, Carroll L. | C.3, C.84, H.138-H.140, J.67 See also C.83, C.99, H.126 |
| WILSON, Sir Geoffrey Masterman | G.53 |
| WILTSHIRE, J. G. | G.46, G.47 |
| WOLF, Peter Otto | See C.107 |
| WOLFENDEN, John Frederick, Baron | E.11 |
| WOLFSON FOUNDATION | C.194, C.200-C.203 |
| WOLVERTON, Nigel Reginald Victor Glyn, 5th Baron | B.93 |
| WOOD, Denys Broomfield | C.25-C.27, C.29 |
| WOOD, Richard | A.179 See also A.180 |
| WOODS, George D. | G.13, G.76, G.77 |
| WORCESTERSHIRE COUNTY COUNCIL | C.250 |

Index of individuals, organisations and firms

| | |
|---|---|
| WORLD BANK (INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT) | F.122, G.9-G.83, H.118 |
| WORLD ENERGY CONFERENCE | D.104, H.42-H.161 |
| WRAY, Gordon Richard | See C.222 |
| WREN, Jack | A.159 |
| WRIGHT, Myles | A.127 |
| WRIGHT, Sir Rowland (Sydney) | A.205, C.94 |
| WYATT, Denys S. | H.4 |
| WYATT, Gavin Edward | A.205, G.14, G.30, G.32- G.34, G.36, G.37, G.40, G.44-G.48, G.53-G.55, G.60, G.61, G.70-G.74, G.79-G.83, J.68 |
| WYMER, P. O. | See C.41 |
| WYNNE, Nora | A.158 |
| WYNNE-EDWARDS, Sir Robert (Meredydd) | See C.9 |
| WYNNE-JONES, William Francis Kenrick, Baron | See D.9 |
| YAMANI, Ahmad Zaki, Sheikh | C.112, C.116 See also C.109, C.111, C.115, C.121, C.122, C.124, H.158 |
| YEN, Chen-Lising | H.45 |
| YOUNG, Janet Mary, Baroness | D.159 |
| ZALESKI, C. P. L. | H.9 |
| ZARACH, Stephanie | F.207 |
| ZUCKERMAN, Solly, Baron | A.205, C.192, C.200-C.203, D.98 See also D.101 |

Catalogue of the papers and correspondence of

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VOLUME II

Sections F - K

Index

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