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Catalogue of the papers and correspondence of

Sir John McGregor Hill FRS

(b. 1921)

by Nicola L. Ashbridge and Timothy E. Powell

NCUACS catalogue no. 82/3/99

Sir John Hill

Physicist and leading figure in the nuclear industry of the 1970s

As chairman of the UK Atomic Energy Authority, Sir John Hill, who has died aged 86, was a key figure in the 1970s debate about the future of nuclear power. He was regarded as an effective, if sometimes indecisive, chairman. But long-running disagreements between the UKAEA generating companies and the government left the country with a mix of idiosyncratic nuclear plants and the expensive collapse of competing projects such as the steam-generated heavy water reactor, which Hill had championed.

Together with his counterparts in the nuclear establishment, Hill was caught up in the culture of secrecy which would eventually lead to a drastic lack of confidence in what had once been one of Britain's flagship industries, halting nuclear power station construction. It was demonstrated in his opposition to a public inquiry over the building of a reprocessing plant at Windscale in Cumbria (now Sellafield). But subsequently he acknowledged the need for the industry to be more transparent, embarking on speeches and articles answering environmental criticisms, conceding that "it doesn't matter how well you build nuclear power stations, if the public won't let you build them.

"The gulf between us and the public is extraordinary. They're concerned about dangers that don't worry us at all, while we are concerned about dangers which don't worry them," he said.

Hill was born in Chester, educated at Richmond county grammar school in Surrey and took a first in physics at King's College London, before joining the RAF to work on radar. Demobbed in 1946 as a flight lieutenant, he completed a PhD at the Cavendish Laboratory at Cambridge before returning to lecture in physics at London University.

In 1950, he joined the Atomic Energy Authority at Windscale, then racing to construct the first large-scale reactors to produce enough plutonium for a British A-bomb. Hill's organisational abilities were soon recognised and in 1954 he was appointed to supervise the production of uranium fuel for the first nuclear power stations at Calder Hall at Windscale and Chapelcross across the Solway Firth. In 1957 pressure to ramp up plutonium production led to disaster at Windscale when one of the piles caught fire, releasing radiation. It remains one of the most serious nuclear accidents ever and raised questions about the safety which would increasingly preoccupy both Hill and the industry. Promoted to the UKAEA board in 1964, Hill became chairman just three years later, succeeding Lord Penney, the "father of the British A-bomb". He stayed until 1981, also assuming the chairmanship of British Nuclear Fuels. Hill pressed for two or three nuclear stations to be built a year in the wake of the oil crisis of the early 1970s.

But the industry was unable to agree on the technology. In 1973 the Central Electricity Generating Board, which operated English power stations, proposed to abandon the British advanced gas cooled reactor (AGR) for the cheaper American pressurised water reactor (PWR). The government, advised by Hill, backed the alternative steam-generated heavy water reactor (SGHWR). But embarrassingly the

Title: Catalogue of the papers and correspondence of Sir John McGregor Hill, FRS (b.1921)

Compiled by: Nicola L Ashbridge & Timothy E. Powell

Description level: Fonds

Date of material: 1946-1994

Extent of material: 15 boxes, *ca* 379 items

Deposited in: Churchill Archives Centre, Churchill College, Cambridge

Reference code: GB 14

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NCUACS catalogue no. 82/3/99

The work of the National Cataloguing Unit
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the production of this catalogue, are made possible
by the support of the following societies
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LIST OF CONTENTS

	Items	Page
GENERAL INTRODUCTION		5
SECTION A	BIOGRAPHICAL	A.1-A.9
		8
SECTION B	PUBLICATIONS, SPEECHES AND LECTURES	B.1-B.339
		10
SECTION C	CORRESPONDENCE	C.1-C.20
		53
INDEX OF CORRESPONDENTS		56

GENERAL INTRODUCTION

PROVENANCE

The papers were received in March 1999 from Sir John Hill.

OUTLINE OF THE CAREER OF SIR JOHN MCGREGOR HILL

John McGregor Hill was born in Chester on 21 February 1921. He attended Richmond County Grammar School in Surrey from 1930 to 1939. After leaving Grammar School he continued his education at King's College, London, where he obtained a 1st Class B.Sc. (Hons) in Physics. Between 1941 and 1946, Hill served in the Royal Air Force, rising to the rank of Flight Lieutenant in the Radar Branch. After leaving the Royal Air Force Hill studied for a Ph.D. in Nuclear Physics at the Cavendish Laboratory, Cambridge, researching the life span of short-lived radio nuclei. In 1948 he was appointed Lecturer in Physics in the University of London.

In 1950 Hill joined the Department of Atomic Energy of the Ministry of Supply at the Windscale Works in Cumbria, marking the start of his career in atomic energy. His first task was to work with engineers involved in the commissioning of Britain's first production nuclear reactors, the Windscale Piles, built for the production of plutonium for military purposes. When the headquarters of the industrial section of the organisation moved to Risley, Cheshire, in 1954, Hill joined the production team, which at the time was trying to determine future development and industrial policies for nuclear power. As Manager of the Production Group, Hill oversaw the uranium diffusion plant at Capenhurst, the fuel manufacturing plant at Springfields, the reprocessing plant at Windscale and the power-generating reactors at Calder and Chapelcross.

Appointed to the Main Board of the United Kingdom Atomic Energy Authority (as the Department of Atomic Energy had been renamed) in 1964, Hill received rapid advancement within the organisation (Deputy Director, Technical Director, Deputy Managing Director, Director, and Managing Director) succeeding Lord Penney as Chairman of the UKAEA on 16 October 1967, a post he held until 1981. Hill also served as a member of the Advisory Council on Technology, 1968-1970.

In April 1971, Hill became Chairman of British Nuclear Fuels Limited, (formerly the Production Group of UKAEA), and in 1975 he succeeded Sir Charles Cunningham as Chairman of the Radiochemical Centre Ltd (later Amersham International plc). He retired as Chairman of BNFL in 1983 and Amersham International plc in 1988.

Among Hill's honours and awards were the Melchett Medal of the Institute of Fuel in 1974, the Sylvanus Thompson Medal of the Institute of Radiology in 1978 and the Foratom Award in 1979, for his outstanding contribution to nuclear power in Europe. Hill was elected to the Fellowships of the Institute of Physics, the Institute of Chemical Engineers, the Institution of Electrical Engineers, the Institute of Energy (President 1988) and was made a Foreign Associate of the US National Academy of Engineering in 1976. Hill was elected to the Fellowship of the Royal Society in 1981, the Fellowship of Royal Academy of Engineering in 1982 and was made a Knight Bachelor in 1969.

DESCRIPTION OF THE COLLECTION

The material in this collection covers the period 1946-1994. It is presented in three sections.

Section A, Biographical, is slight. It includes biographical profiles and press cuttings, and papers relating to Hill's appointment and retirement from the United Kingdom Atomic Energy Authority (UKAEA).

Section B, Publications, lectures and speeches, is the main body of the collection. The bulk of the material (B.1-B.339) consists of articles, speeches and lectures given during the period 1965-1983. This covers Hill's chairmanship of the United Kingdom Atomic Energy Authority and the material may have been assembled in that context. At B.340-B.366 are a few later speeches and lectures (1987-1994) and a set of Hill's publications is presented at B.347-B.350.

Section C, Correspondence, is principally a chronological sequence, covering the period 1980-1983, of carbon copies of Hill's correspondence to ministers in the Department of Energy and to others in various organisations and institutions in Britain and abroad. During this period Hill was President of the Institute of Energy, Chairman of British Nuclear Fuels and Chairman of Amersham International plc. Kept separately by Hill were letters from Edward Heath and Margaret Thatcher, who were both Prime Minister at the time of writing. There is also a chronological sequence of references and recommendations.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are grateful to Sir John Hill for making the papers available.

N. L. Ashbridge
T. E. Powell
Bath 1999

SECTION A BIOGRAPHICAL A.1-A.9

- A.1, A.2 AUTOBIOGRAPHICAL
- A.3, A.4 PRESS CUTTINGS
- A.5-A.9 CAREER, HONOURS AND AWARDS

A.1, A.2 AUTOBIOGRAPHICAL 1946-1983

A.1 11pp autobiographical sketch, prepared for the Personal Records of Fellows of The Royal Society, n. d.; 1p photocopy of proof for Hill's *Who's Who* entry for the 1983 issue.

A.2 Biographical profiles written to help those introducing him as speaker, with a list of research carried out by Hill and a bibliography to 1950. The bibliography relates to offprints at B.347-B.350.

A.3, A.4 PRESS CUTTINGS 1967-1994

A.3 Newspaper articles about Lord Penney's departure as Chairman of the United Kingdom Atomic Energy Authority (UKAEA), and Sir John Hill's arrival as the new Chairman. October 1967.

A.4 Newspaper cuttings. Includes two articles about the Dounreay Fast Reactor and its closure in 1994.

A.5-A.9 CAREER, HONOURS AND AWARDS 1970-1988

A.5 Correspondence from the Ministry of Technology, London, informing Hill of his appointment as Chairman of the Nuclear Fuel Company and of the UKAEA, 20 January 1970 – 20 February 1970.

A.6 Programme from Conferment of Honorary Fellowships, Manchester Polytechnic, 30 November 1972, at which Hill became an Honorary Fellow of Manchester Polytechnic.

Biographical

- A.7 10pp photocopied typescript of Hill's job description as Chairman of the United Kingdom Atomic Energy Authority, September 1972.
- A.8 Details of the organisation of the United Kingdom Atomic Energy Authority, 5 December 1977.

7pp typescript with correspondence.
- A.9 Amersham Group Newsletter 'Ambit', Number 29, May 1988. Includes article about Hill's retirement as Chairman of Amersham International plc in April 1988.

SECTION B PUBLICATIONS, SPEECHES AND LECTURES B.1-B.350

The bulk of the material in this section consists of articles, speeches and lectures given during the period, 1965-1983. This covers Hill's chairmanship of the United Kingdom Atomic Energy Authority and the material may have been assembled in that context. The title 'speeches and lectures' is that given to the papers by Hill himself. At B.340-B.366 are a few later speeches and lectures (1987-1994) and a set of Hill's publications is presented at B.347-B.350.

- B.1-B.339 'SPEECHES AND LECTURES'
- B.340-B.346 LATER SPEECHES AND LECTURES
- B.347-B.350 OFFPRINTS

B.1-B.339 'SPEECHES AND LECTURES' 1965-1983

- B.1, B.2 'Civil Aspects of Atomic Energy' by Sir William Penney, Imperial Defence College, 15 February 1965.
- B.1 16pp typescript with manuscript corrections + list of slides.
- B.2 Correspondence etc *re* arrangements, 12 November 1965 - 7 March 1967.
- B.3 Speech for UK Delegation in the General Debate during the 11th Session of the General Conference of the International Atomic Energy Agency, Vienna, Austria, 29 September 1967.

7pp typescript with manuscript corrections.
- B.4-B.8 '1968 Speeches'

Contents of folder so inscribed.
- B.4 Note of an Address given to the General Committee of the Parliamentary and Scientific Committee, 12 March 1968.

20pp typescript.

Publications, speeches and lectures

- B.5 After-dinner speech, British Week, Stockholm, Sweden, 2 October 1968.
14pp typescript with annotations.
- B.6 International Atomic Energy Agency General Conference, 1968.
13pp typescript.
- B.7 Speech for Sheen Grammar School Prize Giving, 18 October 1968.
7pp typescript with 3pp manuscript notes.
- B.8 'Constructive Uses of Atomic Energy', notes for speech at American Nuclear Society/Atomic International Forum Conference, Sheraton Park Hotel, Washington D. C., USA, 12 November 1968.
3pp typescript with manuscript corrections.
- B.9-B.16 '1969 Speeches'
Contents of folder so inscribed.
- B.9 The Nuclear Engineering Society Dinner, Risley, Cheshire, 21 February 1969.
4pp manuscript draft; 10pp typescript draft.
- B.10 Address to the Industrial Development Corporation, 28 March 1969.
3pp manuscript.
- B.11 'The Structure of the British Nuclear Industry', 23 July 1969.
7pp photocopied typescript + diagram.
- B.12 Opening address to the International Conference on Fast Reactor Irradiation Testing, Thurso Technical College, 15 April 1969.
5pp typescript.

Publications, speeches and lectures

- B.13 'The Prospects of Fast Breeder Reactors in the United Kingdom', Article for *Nuclear Active, South Africa*, 1969.
9pp photocopied typescript + figures and table.
- B.14 Address for the International Atomic Energy Agency General Conference, 25 September 1969.
10pp typescript with manuscript corrections.
- B.15 'Nuclear Power', 5 December 1969.
13pp typescript with annotations.
- B.16 Interview for *Forbes Magazine*, 23 October 1969.
6pp typescript with annotation.
- B.17-B.27 '1970 Speeches'
Contents of folder so inscribed.
- B.17 Talk to Atomic Weapons Research Establishment Senior Management Course, Ascot, Berkshire, 12 May 1970.
4pp manuscript.
- B.18 Introductory comments for *British Nuclear Energy Society Journal*, July 1970.
2pp proof copy with manuscript corrections.
- B.19 (?) Interview with Mr E. Lubbock, August 1970.
18pp photocopied typescript with manuscript corrections.

Publications, speeches and lectures

- B.20, B.21 'Prospects for the Peaceful use of Nuclear Energy in the 1970s', article, 1970.
- B.20 10pp typescript + 3pp figures.
- B.21 'Prospettive sugli usi pacifici dell'energia nucleare negli anni'70', Italian version of B.20, August - September 1970.

Offprint of article from *Notriziario del CNEN*.
- B.22 Chairman's speech at Safari I Inauguration Dinner, 1970.

8pp typescript.
- B.23 Round table discussion between Hill, V. Sarabhai and G. Seaborg, 5 September 1970.

5pp photocopied typescript.
- B.24 Speech for Mr. Michaels' farewell, 1970.

3pp typescript with manuscript corrections.
- B.25 Speech to the International Atomic Energy Agency General Conference, September 1970.

12pp typescript with manuscript corrections.
- B.26 UK Atomic Energy Authority 16th Annual Report Press Conference, 1970.

6pp photocopied typescript.
- B.27 Spencer Park School Prize Giving, 8 October 1970.

4pp typescript.

Publications, speeches and lectures

- B.28-B.30 '1971 Speeches'
Contents of folder so inscribed.
- B.28 'The Need for Industry to Welcome Change', Benton & Bowles Ltd Luncheon, 22 January 1971.
15pp typescript with manuscript corrections.
- B.29 'The Need for Change in Technological Industry', Electrical Research Association, 28 April 1971.
16pp typescript with manuscript corrections.
- B.30 Notes for speech at the Nuclear Engineering Society, 26 October 1971.
6pp manuscript.
- B.31-B.33 'Graphite Structures for Nuclear Reactors'.
Lecture given to the Institution of Mechanical Engineers' Conference, 7-9 March 1972.
- B.31 5pp typescript with manuscript corrections.
- B.32 Correspondence and papers *re* arrangements, 3 May 1971-3 February 1972.
- B.33 'Moderator Structure Design in the United Kingdom - A Historical Survey' by J. D. Hart, N. Prince and C. R. Simons, n. d. (This paper was found with the preceding material).
- B.34, B.35 'The Nuclear Power Industry in the U. K. and Europe', address given at the Hudson Institute's 'Study of the Corporate Environment in the 1980s' seminar, St. James's Square, London, 10 March 1972.
- B.34 Papers *re* seminar arrangements.

Publications, speeches and lectures

- B.35 Correspondence *re* arrangements, 5 January 1972 - 4 May 1972.
- B.36, B.37 'Impact of Science and Technology on Energy', seminar at the Royal College of Defence Studies, Belgrave Square, London, 15-16 June 1972.
- B.36 Papers *re* seminar.
- B.37 Correspondence *re* seminar, 16 February 1972 - 23 June 1972.
- B.38 'Trends in Nuclear Product Improvement', Nuclex '72, 16 October 1972.
8pp photocopied typescript.
- B.39 'The Role of Nuclear Energy in the Total Energy Mix', Atomic Industrial Forum, International Conference, November 1972.
14pp photocopied typescript.
- B.40, B.41 'A Survey of Nuclear Power in the UK', article for International Atomic Energy Agency Bulletin, December 1972.
- B.40 6pp photocopied typescript; 10pp draft typescript with manuscript corrections, contains 1pp manuscript draft.
- B.41 Correspondence *re* article, 7 August - 2 November 1972.
- B.42, B.43 'Nuclear Power - its present problems and future prospects', Fuel Luncheon Club, London, 16 January 1973.
- B.42 9pp typescript; 9pp photocopied typescript with manuscript corrections; 2pp typescript draft passage with manuscript corrections.
- B.43 Correspondence *re* speech, 25 October 1972 - 8 February 1973.

Publications, speeches and lectures

- B.44 Nuclear Engineering Society, 2 March 1973.
5pp typescript.
- B.45, B.46 'The "Energy Crisis" and Nuclear Power', Electrical Industries Club Lunch,
London, 13 March 1973.
- B.45 10pp typescript with manuscript corrections.
- B.46 Correspondence and papers *re* speech, 25 January 1972 - 5 April 1973.
- B.47, B.48 Institution of Mechanical Engineers Steam Plant Group Convention, 3 May
1973.
- B.47 7pp typescript with manuscript corrections.
- B.48 Correspondence *re* convention, 12 December 1972 - 7 May 1973.
- B.49-B.52 'The Effects of Science and Technology on Energy', Royal College of
Defence Studies.
This lecture was given on three occasions between 1973 and 1975.
- B.49 Correspondence *re* arrangements for 1973 seminar, 21 March - 4 June
1973.
- B.50 Correspondence and papers *re* arrangements for 1974 and 1975 seminars,
1 February 1974 - 12 June 1975.
- B.51 Papers *re* arrangements for structure of talk and seminar.
- B.52 'The Royal College of Defence Studies Course Handbook 1974'.

Publications, speeches and lectures

- B.53-B.56 'Energy in the 1980s - Future Trends in Nuclear Power Generation', Royal Society Discussion Meeting, London, 15-16 November 1973.
- B.53 10pp typescript of lecture.
- B.54 Correspondence and papers *re* discussion meeting, 24 September 1973 - 24 November 1973.
- B.55 'Future Trends in Nuclear Power Generation'. 8pp offprint, *Phil. Trans. R. Soc. London. A.* 276, (1974), pp 587-601.
- B.56 Correspondence and papers *re* article, 16 November 1973 - 18 December 1974.
- B.57, B.58 BBC Radio 4 - "Half Speed Ahead", interview with George Luce, 3 January 1974.
- B.57 8pp photocopied typescript of interview.
- B.58 Correspondence *re* interview, 23 November - 14 December 1973.
- B.59-B.61 'Nuclear Power and the Fuel Crisis', Allerdale Wyld Memorial Lecture, Workington, Cumbria, 7 March 1974.
- B.59 15pp typescript with manuscript corrections; 2pp typescript of introductory comments *re* lecture.
- B.60 Correspondence *re* lecture, 3 May 1973 - 6 March 1974.
- B.61 Programmes for earlier Allerdale Wyld Memorial Lectures.

Publications, speeches and lectures

- B.62 'Nuclear Power and Fuels Now and in the Future', World Energy Conference, Detroit, Michigan, USA, September 1974.
7pp photocopied typescript.
- B.63-B.65 'British Atomic Energy and the Decade Ahead', Coal Industry Society Lunch, London, 7 October 1974.
- B.63 10pp typescript with manuscript corrections.
- B.64 Correspondence *re* talk, 3 July - 22 October 1974,
- B.65 The Coal Industry Society Diary, 1971-1972.
- B.66 'Atomic Energy', London Broadcasting Company radio programme 'Newswatch', 7 October 1974.
3pp photocopied typescript of interview with J. Murry.
- B.67-B.69 The Company of Launderers, London, 7 October 1974.
- B.67 5pp typescript.
- B.68 Correspondence *re* speech, 20 September - 16 October 1974.
- B.69 '*The Craft of Laundering*' by Ancliffe Prince, 1970.
- B.70-B.72 'The Energy Situation and the Role of Nuclear Power', Brough Lecture, Paisley College of Technology, Renfrewshire, Scotland, 17 October 1974.
- B.70 14pp typescript with manuscript corrections; 14pp photocopied typescript.
- B.71 2pp typescript of press release following Hill's visit to the Paisley College of Technology, with manuscript corrections; 2pp draft typescript.

Publications, speeches and lectures

- B.72 Correspondence and papers *re* Brough Lecture, 13 March - 31 October 1974.
- B.73 Untitled notes for talk delivered at Pelindaba, South Africa, 6 November 1974.

8pp manuscript.
- B.74 'The Energy Situation and the Role of Nuclear Power', H. C. Orsted Institute, Copenhagen University, Copenhagen, Denmark, 7 April 1975. (Revised version of Brough Lecture).

14pp typescript; 15pp photocopied typescript with manuscript corrections; 14pp photocopied typescript of original Brough Lecture with manuscript revision.
- B.75 Correspondence *re* toast made at the Nuclear Engineering Society Dinner, 7 March 1975. 21 January - 7 March 1975.
- B.76, B.77 'The Case for Nuclear Power - A Reply', article for publication in UN Development Forum, July 1975.

This is a reply to articles by E. Teller and H. O. G. Alfven.
- B.76 7pp typescript with manuscript corrections.
- B.77 Correspondence *re* article, 27 June 1975 - 3 July 1975.
- B.78-B.80 'Nuclear Power Comes of Age', 1975.
- B.78 9pp photocopied typescript; 9pp photocopied typescript with manuscript corrections.
- B.79 Correspondence *re* article, 14 August 1975 - 3 June 1976.
- B.80 "Coal and Energy Quarterly" Number 6, Autumn 1975, pp10-15.

Publications, speeches and lectures

- B.81-B.83 'Nuclear Power Comes of Age', British Nuclear Energy Society (BNES), Cockcroft Memorial Lecture, November 1975.
- B.81 Offprint of lecture from *J. Br. Nuclear Energy Soc.*, Vol. 15 (1976), pp105-109; 18pp typescript + list of slides and table.
- B.82 Correspondence *re* lecture, 16 September 1974 - 5 February 1976.
- B.83 Pamphlet inscribed 'Effective Lecture Slides'; 3pp typescript tables; 1pp typescript 'Notes on the preparation of papers'.
- B.84-B.86 'Nuclear Power: the achievements, the problems and the myths', The Melchett Lecture, Imperial College, London, 20 November 1975.
- B.84 Offprint of lecture from the *Journal of the Institute of Fuel*, March 1976; 23pp typescript + 2pp figures, 3pp typescript; 2pp typescript inscribed 'Vote of Thanks: Melchett Lecture', with manuscript corrections and annotation.
- B.85 Correspondence and papers *re* lecture, 6 January 1975 - 28 November 1975.
- B.86 Miscellaneous papers *re* lecture, includes 1pp photocopied typescript entitled 'Individual Responsibility in Health and Safety' by Professor Sir Frederick Warner and photocopies of press cuttings *re* electricity companies, *Financial Times*, 7 November 1975.
- B.87-B.89 Institution of Gas Engineers, Autumn Research Luncheon, 25 November 1975.
- B.87 5pp typescript; 5pp photocopied typescript with manuscript corrections.
- B.88 Correspondence *re* meeting luncheon, 24 September 1975 - 28 November 1975.

Publications, speeches and lectures

- B.89 Invitation to Hill for the Institution of Gas Engineers Research Luncheon; 'Official Programme for 41st Autumn Research Meeting'; pamphlet *re* The Institution of Gas Engineers.
- B.90, B.91 Royal College of Science Association Annual Dinner, 28 November 1975.
- B.90 4pp typescript with manuscript corrections.
- B.91 Correspondence *re* Annual Dinner, 23 May 1975 - 12 November 1975.
- B.92 'The Energy Situation and the Role of Nuclear Power', Kingston Polytechnic, Surrey, 27 January 1976.

Correspondence *re* lecture, 15 May 1975 - 28 January 1976.
- B.93, B.94 Address to the Annual Conference of the Atomic Energy Branch of the Integrated Propulsion Control System (IPCS), 7 February 1976.
- B.93 7pp photocopied typescript.
- B.94 Correspondence *re* address, 30 December 1975 - 6 February 1976.
- B.95, B.96 'The Role of Nuclear Power as a Fuel Industry', Newcastle Fuel Luncheon Club Meeting, 27 February 1976.
- B.95 7pp typescript.
- B.96 Correspondence *re* lecture, 19 September 1975 - 9 February 1976.
- B.97 'Nuclear Power - the Role it can play in the Future', Energy International Meeting, 9 March 1976.

8pp typescript.

Publications, speeches and lectures

- B.98 'The Abuse of Nuclear Power', Financial Times Conference on Nuclear Power and the Public Interest - the implication for business, 8-9 July 1976.
12pp typescript; 12pp photocopied typescript with manuscript corrections.
- B.99 International Symposium on Uranium Supply and Demand, London, 1976.
6pp typescript of remarks made by Hill at symposium banquet on 16 June 1976.
- B.100 'The Case for the Fast Reactor', *The Times*, 29 July 1976.
5pp typescript.
- B.101 'The Case for the Fast Reactor - Essential for our way of Life', *Observer*, 1 August 1976.
8pp photocopied typescript.
- B.102, B.103 'Nuclear Power Generation', British Association for the Advancement of Science', July 1976.
- B.102 11pp photocopied typescript with manuscript corrections; 4pp proof copy of lecture with manuscript corrections.
- B.103 Correspondence and papers *re* publication, 22 June 1977.
- B.104 'Nuclear Vistas', *The Observer: Energy Extra*, 1976.
4pp photocopied typescript.
- B.105 "Our Future Dependence on Nuclear Power", *The Times*, 1976.
5pp photocopied typescript.
- B.106-B.108 Talk to US National Committee of World Energy Conference, 15 November 1976.

Publications, speeches and lectures

- B.106 8pp photocopied typescript; 15pp photocopies of transparencies used as illustrations for talk.
- B.107 Notes concerning a discussion with Marcus Rowden, Chairman of Nuclear Regulatory Commission, 17 November 1976.
1pp typescript.
- B.108 Correspondence and papers *re* meetings with the British Embassy in Washington DC, 30 November 1976 - 16 December 1976.
- B.109-B.111 'Nuclear Power Decision Making in a Democratic Society', Civil Service College, Ascot, Berkshire, 23 November 1976.
- B.109 11pp typescript with manuscript corrections.
- B.110 Correspondence *re* seminar, 23 September 1976 - 15 February 1977.
- B.111 Papers *re* briefing for seminar, includes 2 pamphlets for courses at the Civil Service College, dated 22-25 November 1976 and 7-10 February 1977.
- B.112 UK Atomic Energy Authority Annual Press Conference, 15 September 1976.
6pp photocopied typescript with manuscript corrections.
- B.113 - B.115 'Radioactive Waste Management in the UK', International Symposium on the Management of Wastes from the LWR Fuel Cycle, Denver, Colorado, USA, 11-16 July 1976.
- B.113 10pp photocopied typescript.
- B.114 Correspondence *re* lecture, 4 March 1977.
- B.115 Published version in *Atom*, No. 240, (1976), pp250-253.

Publications, speeches and lectures

- B.116 'The Energy Situation in the United Kingdom', Energy International N. V., January 1977.
12pp typescript + figures.
- B.117 Toast given to the Institute of Bankers, 21 February 1977.
5pp typescript.
- B.118-B.121 Toast to the Institution of Electrical Engineers, Annual Dinner, London, 23 February 1977.
- B.118 14pp typescript.
- B.119 Several drafts of Hill's toast: '1st draft' 7pp typescript; '2nd draft' 9pp typescript; 'Third draft' 9pp typescript with manuscript corrections; 8pp typescript with manuscript corrections + 3pp manuscript notes attached to typescript.
- B.120 Correspondence *re* Institution of Electrical Engineers Annual Dinner, 4 January 1977 - 14 March 1977.
- B.121 Papers *re* arrangements for Annual Dinner.
- B.122-B.124 Speech for Closure of Dounreay Fast Reactor, 23 March 1977.
- B.122 5pp typescript of speech.
- B.123 Papers *re* arrangements for ceremony, including 1pp photocopied typescript of Hill's career, 10pp photocopied typescript of the Press Visit to Dounreay, (includes an extract from a speech made by Sir David Eccles), 6pp photocopied typescript of address made by Lord Hinton of Bankside, 2pp photocopied typescript detailing Lord Hinton's life.
- B.124 Correspondence *re* Dounreay Press Visit, 4 February - 25 March 1977.

Publications, speeches and lectures

- B.125-B127 'The Energy Gap and the Fast Reactor', Glasgow Symposium on the breeder reactor, University of Strathclyde, 25 March 1977.
- B.125 10pp typescript of lecture + note; 8pp draft of talk.
- B.126 Correspondence *re* lecture, 18 November 1976 - 4 July 1977.
- B.127 Papers *re* talk, including Lord Hinton of Bankside's Symposium paper entitled 'The Birth of the Breeder'.
- B.128-B.130 Speech given at the Institution of Mining and Metallurgy (IMM) Dinner, 28 April 1977.
- B.128 13pp photocopied typescript of speech; correspondence.
- B.129 7pp typescript of speech given after Hill's at the IMM Dinner.
- B.130 *IMM Bulletin*, Number 848, July 1977.
- B.131, B.132 Speech made by Hill at the Opening of the British Steel Works in Sheffield, 27 April 1977.
- B.131 8pp typescript of speech.
- B.132 1pp manuscript and 8pp typescript with manuscript corrections, draft of speech.
- B.133 Correspondence *re* arrangements for the Stainless Plate Open Day, 15 December 1976 - 13 May 1977.
- B.134-B.138 'Status and Programme for the Fast Breeder Reactor in the UK', Salzburg Conference, Austria, 2-13 May 1977.

Publications, speeches and lectures

- B.134 18pp typescript with manuscript corrections; 16pp photocopied typescript draft with corrections; 1pp manuscript notes of Hill's address at Salzburg.
- B.135 Opening comments for Conference, including 1pp photocopied typescript of the Chairman's [W. B. Lewis] opening remarks; 9pp photocopied typescript of address given by R. W. Fri, Acting Administrator of the U S Energy Research and Development Administration at the Conference.
- B.136 Papers *re* Conference, includes 2pp photocopied article from *Nuclear Fuel*, 21 March 1977, no title given; 10pp photocopied article 'The Prospects for the World Nuclear Energy Market', *Nuclear Engineering International*, (1976) pp 91-109.
- B.137 Correspondence *re* Conference, 17 January - 24 June 1977.
- B.138 Conference papers: 4pp photocopied typescript of oral presentation by N. L. Franklin at the Conference (presentation written in collaboration with Hill); 7pp photocopied typescript of statement made by J. S. Nye at the Conference, 2 May 1977; 2pp photocopied typescript of press conference given by Nye; 11pp photocopied typescript of C. Allday's Conference paper 'International Co-operation in the Supply of Nuclear Fuel Cycle Services'.
- B.139, B.140 'This House considers that our grandchildren will curse us for squandering their inheritance', Union Society Debate, Durham University, Durham, 16 May 1977.
Hill's opposed the motion.
- B.139 6pp typescript with manuscript corrections; 7pp of additional notes; 3pp typescript.
- B.140 Correspondence *re* debate, 14 April - 10 May 1977.
- B.141-B.143 'Nuclear Power - The Real Problems and the Emotional Issues of the Public Debate', University of York, 19 May 1977.
- B.141 15pp typescript of lecture.

Publications, speeches and lectures

- B.142 Correspondence *re* arrangements, 9 November 1976 - 25 January 1977.
- B.143 Papers *re* lecture: 2pp press release inscribed 'Combating Terrorism' which highlights the Atomic Energy Authority's plans to produce a hijack-proof plutonium reprocessing system; 1p photocopy of press cuttings from 20 May 1977, reporting on Hill's lecture at York.
- B.144-B.148 Seminar on Nuclear Policy, Civil Service College, Sunningdale, 13-14 May 1977.
- B.144 Papers outlining all three sessions of the seminar.
- B.145 3pp photocopied typescript information; covering letter.
- B.146 Papers *re* Energy Policy Review.
- B.147 Correspondence *re* seminar, 28 April - 28 July 1977.
- B.148 Papers *re* briefing for seminar, including a press cutting from *The Times*, 12 May 1977; 2pp typescript inscribed 'Explanatory Statement on MUF figures'; 8pp photocopied typescript entitled 'The U. S. Presidential Nuclear Policy and its Implications'.
- B.149-B.151 'Ferritic Steels for Fast Reactor Steam Generators', British Nuclear Energy Society Conference, Institution of Civil Engineers, London, 30 May - 2 June 1977.
- B.149 4pp typescript of opening remarks for Conference.
- B.150 Correspondence *re* arrangements, 21 March - 11 July 1977.
- B.151 Conference programme.

Publications, speeches and lectures

- B.152, B.153 'Implications of a large Nuclear Programme for Public Security and Civil Liberty', King's College, London, 2 June 1977.
- This event was organised by the Department of War Studies King's College, London and sponsored by the Nuffield Foundation.
- B.152 Papers *re* seminar arrangements, includes 3pp photocopied typescript inscribed 'Societal Implications of Plutonium Utilisation'.
- B.153 Correspondence *re* arrangements, 7 April - 11 July 1977.
- B.154 'The Transport of Nuclear Fuel', Energy International N. V., 1977.
- 6pp typescript; 6pp typescript with manuscript corrections; 14pp photocopied typescript of draft outline + diagram; figures and table.
- B.155 Conservative Party Energy Committee Meeting, 23 June 1977.
- Correspondence *re* arrangements, 3 May - 19 August 1977.
- B.156 'Nuclear Power and the Energy Future', International Proliferation of Nuclear Weapons, Royal Institution Forum, 11-12 October 1977.
- 3pp typescript of introductory remarks, 18pp photocopied typescript of lecture; correspondence *re* BBC television documentary school programme about nuclear defence.
- B.157 Fuel Luncheon Club: Presidential Address, 18 October 1977.
- 7pp typescript; 7pp photocopied typescript with manuscript corrections.
- B.158-B.161 'Geological Aspects of Uranium in the Environment', lecture for symposium entitled Why Nuclear Energy? Department of Applied Geology, University of Strathclyde, Glasgow, 12 November 1977.
- B.158 11pp typescript of lecture given at the Strathclyde Symposium; photocopied typescript for *Geological Society Miscellaneous Paper*, No. 7, (1978), pp 4-11; 8pp photocopy of proof with manuscript corrections.

Publications, speeches and lectures

- B.159 Correspondence and papers *re* publication; 1p typescript of abstract for article; 1p manuscript of abstract; 3pp typescript of abstract with amended version of article.
- B.160 Correspondence and papers *re* arrangements, 11 July 1977 - 14 February 1978.
- B.161 Papers given at Strathclyde Symposium: 8pp photocopy of typescript entitled 'Proving a potential site for the geological disposal of high-level radioactive waste', by J. D. Mather; 10pp photocopy of typescript, 'Geological Aspects of disposal of solid, high-level radioactive waste' by D. A. Gray.
- B.162, B.163 'Proliferation and Nuclear Power - The differences in the United States and Europe', Mid Atlantic Club, London, 22 November 1977.
- B.162 6pp typescript of talk.
- B.163 Correspondence *re* meeting, 4 May - 10 October 1977.
- B.164-B.170 'Nuclear Power in the Public Eye', Royal Society of Arts, London, 25 January 1978.
- B.164 20pp typescript of lecture; 2pp typescript of list of slides used at the lecture; 1pp manuscript list of slides; 2pp typescript of list of those invited to lecture.
- B.165 Offprint of article, *Atom*, Number 257 (1978), pp 3-12; 9pp uncorrected proof of Royal Society of Arts Lecture.
- B.166, B.167 Correspondence *re* arrangements, 1 June 1977 - 18 August 1978.
2 folders.
- B.168 6 photocopied pages of press cuttings, February - March 1977.

Publications, speeches and lectures

- B.169 Programmes, pamphlets and booklets *re* Royal Society of Arts.
- B.170 Photographs of graphs, newspaper headlines, etc.
- B.171-B.175 'The Scope and Limitations of International Co-operation concerning the Nuclear Fuel Cycle', Nuclear Energy Agency 20th Anniversary Symposium, Paris, France, 1-2 February 1978.
- B.171 18pp photocopied typescript of lecture.
- B.172 Correspondence *re* lecture, 2 September 1977 - 11 January 1978.
- B.173 Papers *re* lecture.
- B.174 Symposium programme.
- B.175 Other papers given at the symposium.
- B.176-B.178 'Energy and the Future', Institute of Credit Management, Annual National Conference, London, 15 March 1978.
- B.176 13pp typescript of address; 11pp typescript draft with manuscript corrections; 3pp manuscript draft. There are manuscript notes inserted within the draft.
- B.177 Correspondence and papers *re* arrangements, 20 June 1977 - 22 February 1978.
- B.178 Two programmes for the Institute of Credit Management's National Conference from 1977 and 1978.

Publications, speeches and lectures

- B.179-B.184 'Nuclear Waste Disposal', Institution of Electrical Engineers, London, 16 February 1978.
- B.179 18pp photocopied typescript of lecture + graph and one table attached; 2pp photocopied typescript with manuscript note of slides used in lecture; 7pp typescript of lecture (differing slightly from final version of article and lecture).
- B.180 Offprint of article, 'Nuclear Waste Disposal', *Atom*, Number 259, (May 1978); 12pp photocopied typescript of article with slight amendments.
- B.181 46pp typescript of the Institution of Electrical Engineers Question and Answer session, 16 February 1978.
- B.182 Correspondence and papers *re* lecture, 16 June 1977 - 11 July 1978.
- B.183 Photocopies of slides used in the lecture + tables.
- B.184 Press Release, 'Nuclear Waste Disposal', 15 February 1978.
- B.185, B.186 Nuclear Engineering Society Annual Dinner, 10 March 1978.
- B.185 7pp typescript with manuscript corrections.
- B.186 Correspondence and papers *re* Annual Dinner.
- B.187-B.193 'Nuclear Power and the Environment', The Sylvanus Thompson Memorial Lecture, British Institute of Radiology (BIR) joint meeting and annual congress, 14 April 1978.
- B.187 20pp typescript of lecture; 20pp proof copy of lecture with annotation and manuscript corrections; 20pp photocopied typescript with annotation and manuscript corrections.

Publications, speeches and lectures

- B.188 Offprint of the Sylvanus Thompson Memorial Lecture, *British Journal of Radiology*, Vol. 52, (1979), pp2-13.
- B.189 Photographs of Windscale, Springfield, Hinkley Point 'B' and Haddam Neck Plant nuclear power stations; photographs of tables, diagrams and graphs; 2pp photocopied typescript inscribed 'Radiation Exposure of the Public'.
- B.190 Correspondence *re* lecture, 29 June 1977 - 11 September 1979.
2 folders.
- B.191 4pp press release, 'Nuclear Power and the Environment', 14 April 1978.
- B.192 Booklet of the Joint Meeting and thirty-sixth BIR Annual Congress Scientific Exhibition, 13-14 April 1978.
- B.193 Handbook of the British Institute of Radiology, 1966.
- B.194-B.199 'Alternative Nuclear Power Systems', Conference on Energy and the Spread of Nuclear Technology, Ditchley Park, Enstone, Oxfordshire, 28-30 April 1978.
- B.194 14pp typescript of lecture + graphs.
- B.195 Papers *re* arrangements for conference including 2pp photocopy of transparencies used in lecture.
- B.196 Correspondence *re* arrangements, 1 September 1977 - 4 May 1978.
- B.197 Information about Ditchley Foundation.
- B.198 Photocopy of an article titled 'Plutonium: when too much is not a good thing', *The Times*, 25 April 1978.

Publications, speeches and lectures

- B.199 16pp photocopied typescript 'The Case for Fast Breeder Reactors'. Lecture given by T. N. Marsham at the Ditchley Conference.
- B.200 Shell International Symposium, 16 May 1978.
Correspondence *re* arrangements with attached booklet.
- B.201 Speech given at the opening of Risley Computer Centre, Risley, Cheshire, 19 May 1978.
4pp typescript.
- B.202 The Windscale Enquiry, Energy International N. V., 5 June 1978.
4pp typescript.
- B.203 *The Times* Special Report on Energy, October 1978.
2pp typescript entitled 'Nuclear Power'; correspondence *re* draft article.
- B.204, B.205 'Fuel - The Broader Perspective', National Energy Management Conference, National Conference Centre, Birmingham, 10 October 1978.
- B.204 4pp typescript of speech.
- B.205 Correspondence and papers *re* arrangements, 1 September - 23 October 1978.
- B.206 'Factors Influencing the Growth of Nuclear Power', Advisory Committee of Energy International, 16 October 1978.
5pp typescript of paper; 4pp typescript with manuscript corrections; correspondence *re* paper.
- B.207, B.208 'The Fast Reactor - A Problem of Engineering and a Problem of Public Acceptance', speech given to the Department of Engineering, University of Cambridge, during a series of lectures on 'Energy and its Problems'.

Publications, speeches and lectures

- B.207 13pp typescript + photocopies of transparencies used to illustrate talk; typescripts of figures.
- B.208 Correspondence and papers *re* lecture, 23 June 1978 - 28 November 1978.
- B.209, B.210 'The British Energy Scene', North West Fuel Luncheon Club, 5 December 1978.
- B.209 5pp typescript; 5pp typescript with manuscript corrections and annotation.
- B.210 Correspondence *re* talk, 21 August 1978 - 4 December 1978.
- B.211, B.212 'The World Energy Situation and its effect on our Nuclear Energy Programme', Culham Colloquium, Culham Laboratory, Abingdon, Oxfordshire, 26 January 1979.
- B.211 Correspondence *re* arrangements, 17 October 1978 - 6 February 1979.
- B.212 36pp photocopied typescript, Culham Laboratory: Half-Yearly Progress Report, January - June 1978.
- B.213, B.214 'This House would Halt the Nuclear Programme', Union Society Debate, Cambridge, 5 February 1979.

Hill opposed this motion.
- B.213 6pp photocopied typescript of discussion with annotation and manuscript corrections.
- B.214 Correspondence and papers *re* arrangements, 1 August 1978 - 15 February 1979.

Publications, speeches and lectures

- B.215-B.217 The Energy Show, National Exhibition Centre, Birmingham, 19-25 February 1979.
- B.215 5pp typescript of Lunchtime address, 21 February 1979.
- B.216 Correspondence and papers *re* arrangements, 26 July 1978 - 6 February 1979.
- B.217 5pp typescript of minutes for meeting held at the Institute of Energy.
- B.218-B.222 'The Quest for Public Acceptance of Nuclear Power', British Nuclear Engineering Society Lecture, Institution of Civil Engineers, London, 26 April 1979.
- B.218 16pp typescript of lecture; 16pp photocopied typescript, amended by 'Mr Vey' for reprinting in the *Edison Electric Institution Journal*.
- B.219 Offprint of lecture, *Atom*, No. 273, (1979), pp 2-8.
- B.220 Offprint of lecture, *Nuclear Energy*, Vol. 18, (1979), pp 301-309.
- B.221 Papers *re* lecture: 3pp typescript list of recipients + attached note; 22pp typescript inscribed 'Replies'; 11pp photocopied typescript inscribed 'Discussion Contributions'.
- B.222 Correspondence *re* lecture, 3 March 1978 - 14 December 1979.
- B.223-B.225 'The Role of Nuclear Power' Glasgow Symposium on "Power for the 90s", Strathclyde University, Glasgow, May 1979.
- B.223 9pp typescript draft of lecture; 10pp photocopied typescript of lecture with manuscript corrections and indications for slides.
- B.224 Correspondence *re* arrangements, 5 January - 7 May 1979.

Publications, speeches and lectures

- B.225 Papers *re* seminar: 1p typescript of the 'preliminary outline programme'; 1p typescript of the day's agenda; background material.
- B.226, B.227 United Reprocessor Group (URG) presentation and cocktail party at European Nuclear Conference, Hamburg, West Germany, 7-11 May 1979.
- B.226 15pp photocopied typescript of address given by Hill, 10 May 1979.
- B.227 Correspondence *re* arrangements, 18 April - 27 April 1979.
- B.228-B.230 European Nuclear Society (ENS)/American Nuclear Society (ANS) Conference, Hamburg, West Germany, 7-11 May 1979.
- B.228 9pp typescript of resumé; 7pp photocopied typescript draft of resumé with manuscript corrections.
- B.229 Booklet, titled 'Nuclear Power Programme in Egypt: an information paper submitted to the European Nuclear Conference on Nuclear Power Options for the World'.
- B.230 Correspondence sent to Hill after the conference, 18 May - 25 May 1979.
- B.231-B.232 'The Driving Forces of Proliferation', International Conference on Reconciling Energy Needs and Non-Proliferation, Bonn, West Germany, 13-16 May 1979.
- B.231 14pp typescript draft of lecture; 14pp photocopied typescript with manuscript corrections; photocopied offprint of published version of lecture with annotations
- B.232 Correspondence and papers *re* lecture, 4 December 1978 - 29 April 1980.

Publications, speeches and lectures

- B.233-B.235 Foratom Award Ceremony, European Nuclear Conference, Hamburg, West Germany, 10 May 1979.
- The material relates to the speech given by Hill after receiving the Foratom Award, for his contribution to nuclear power in Europe.
- B.233 3pp photocopied typescript of luncheon speech; 3pp photocopied typescript with manuscript corrections.
- B.234 Correspondence *re* Award, 16 May 1979 - 11 July 1979.
- B.235 1pp typescript draft of press statement; 2pp typescript background note for the editor outlining Hill's achievements.
- B.236 'The Accident at the Three Mile Island Nuclear Plant', Energy International N. V., May 1979.
- 16pp typescript + figures.
- B.237 'The Future Requirements for Fast Reactor Fuel Reprocessing', Fast Reactor Fuel Reprocessing: Society of Chemical Industry Conference, May 1979.
- 13pp photocopied typescript draft of lecture; 11pp typescript of lecture; offprint of published version, *Chemistry and Industry*, 16 June 1979, pp 406-409.
- B.238, B.239 British Nuclear Forum, Annual Lunch, 16th Annual General Meeting, London, 20 June 1979.
- B.238 5pp typescript of address.
- B.239 Correspondence and papers *re* arrangements, 20 October 1978 - 25 June 1979.

Publications, speeches and lectures

- B.240 'Nuclear Power - Choice of Reactor', Electrical Power Engineers Association, National Executive Committee Weekend Seminar, 28-30 September 1979.

Correspondence *re* arrangements, 6 August - 9 October 1979. No copy of speech.
- B.241, B.242 'Energy Choices for the Future', Parliamentary Liaison Group for Alternative Energy Strategies, House of Commons, London, 29 October 1979.
- B.241 5pp typescript of lecture + list of slides.
- B.242 Correspondence *re* group meeting, 24 May 1979 - 21 February 1980.
- B.243-B.246 'That Britain's Dependence on Nuclear Power will result in Disaster', Union Society Debate, Oxford, 16 November 1979.

Hill opposed the motion.
- B.243 5pp typescript; 6pp photocopied typescript with manuscript corrections.
- B.244, B.245 Background material.

2 folders.
- B.246 Correspondence and papers *re* debate, 1 July - 16 November 1979.
- B.247, B.248 'This House believes that the nuclear source is an essential component in the overall British energy strategy', University of Bristol Debating Society, Bristol, 25 January 1980.
- B.247 5pp typescript.
- B.248 Correspondence *re* arrangements, 11 January - 17 January 1980.

Publications, speeches and lectures

- B.249-B.251 'Energy Choices for the Future', Science in Society Debate Conference on 'The Future of Nuclear Energy', North East London Polytechnic, London, 30 January 1980.
- B.249 5pp photocopied typescript of address + list of slides.
- B.250 1p photocopy of page from *Time Out* with small section on debate.
- B.251 Correspondence *re* arrangements, 5 July 1979 - 1 February 1980.
- B.252, B.253 'Nuclear Power and Society', University of Kent Open Lecture, Canterbury, Kent, 29 February 1980.
- B.252 17pp typescript of lecture.
- B.253 Correspondence and papers *re* arrangements, 23 July 1979 - 4 March 1980.
- B.254, B.255 Young Members Annual Dinner, East India Devonshire Sports and Public Schools Club, 31 January 1980.
- B.254 5pp photocopied typescript of lecture with manuscript corrections, 1p manuscript notes on back of typescript.
- B.255 Correspondence *re* annual dinner, 4 February 1980.
- B.256 Parliamentary Labour Party Energy Group, House of Commons, London, 16 April 1980.
Correspondence *re* discussion, 1 - 18 April 1980.
- B.257, B.258 Premiere of documentary film 'Using Radioactivity', Princess Anne Theatre, Piccadilly, London, 1 May 1980.
- B.257 2pp photocopy of Hill's introduction to the film.

Publications, speeches and lectures

- B.258 Correspondence and papers *re* premiere, 21 March - 23 April 1980.
- B.259, B.260 Systems Reliability Service, 10th Anniversary, International Press Centre, London, 16 May 1980.
- B.259 2pp typescript of introduction to J. Locke's speech with manuscript corrections.
- B.260 Correspondence *re* arrangements, 22 January - 29 April 1980.
- B.261, B.262 Uranium Supply, All-Party Minerals Group, House of Commons, London, 9 July 1980.
The talk was originally scheduled for 25 June 1980.
- B.261 4pp typescript of brief for talk with manuscript notes on the last page.
- B.262 Correspondence *re* talk, 23 April - 10 July 1980.
- B.263, B.264 Speech given at the International Atomic Energy Agency XIV General Conference, Vienna, Austria, 22 September 1980.
- B.263 14pp photocopied typescript with manuscript corrections and annotation inscribed 'as delivered'; 11pp photocopied typescript of draft with manuscript corrections; 7pp typescript of speech; 2pp manuscript draft.
- B.264 Correspondence *re* Hill's speech, 12 - 18 September 1980.
- B.265, B.266 'Nuclear Power and Public Concern', *Leaders* magazine, October 1980.
- B.265 5pp typescript of article.
- B.266 Correspondence *re* arrangements for publication of Hill's article, 9 April 1980 - 6 March 1981.

Publications, speeches and lectures

- B.267, B.268 'The Great Nuclear Debate', Westminster Branch of the British Institute of Management Discussion meeting, London, 14 October 1980.
- B.267 8pp typescript of lecture.
- B.268 Correspondence *re* arrangements, 21 September - 5 October 1979.
- B.269-B.271 Speech given at the JET Inauguration Ceremony, Culham Laboratory, Abingdon, Oxfordshire, 16 October 1980.
- B.269 3pp typescript of speech; correspondence *re* amendments to lecture; 2pp typescript of amended version of speech.
- B.270 Correspondence *re* arrangements and contents of speech, 7-21 October 1980.
- B.271 Papers *re* programme of proceedings.
- B.272, B.273 'The Real Problems and the Problems as perceived by the Public', Institute of Petroleum, London Branch Committee, Annual Luncheon Meeting, London, 24 November 1980.
- B.272 10pp photocopied typescript of lecture with manuscript corrections; 8pp typescript of lecture.
- B.273 Correspondence *re* arrangements, 11 June - 28 November 1980.
- B.274-B.276 'After the Great Nuclear Debate', Heriot Watt University Public Lecture, Edinburgh, 25 November 1980.
- B.274 18pp typescript of speech; offprint from for *Atom*, No. 291, (1981), pp 2-8.
- B.275 Correspondence *re* arrangements and letters of thanks for speech, 14 May 1980 - 5 January 1981.

Publications, speeches and lectures

- B.276 Papers *re* background research for lecture.
- B.277, B.278 All-Party Minerals Group, House of Commons, London, 3 December 1980.
- B.277 Material *re* meeting, includes 3 typescripts by L. M. Curtis.
- B.278 Correspondence *re* arrangements and letters of thanks for lecture, 15 September - 4 December 1980.
- B.279-B.282 'Comparison of the benefits and risks associated with the utilisation of various energy sources', Conference on the Hazard in Human Activities, Florence, Italy, 14-15 January 1981.
- B.279 16pp photocopied typescript of lecture with annotation and manuscript corrections; 12pp photocopied typescript of lecture with manuscript corrections + tables.
- B.280 Papers *re* conference, include 3pp manuscript notes written during Session 4 of the conference, 2pp manuscript inscribed 'References' + tables and slide material.
- B.281 Correspondence *re* arrangements, letters of thanks, 3 July 1980 - 22 June 1981.
- B.282 12pp typescript of lecture by G. Varasi given at conference.
- B.283, B.284 Untitled draft inscribed 'How to Manage', 6 February 1981.

This draft was written after Hill was approached by Professor R. Wild, regarding his book '*How to Manage*', a compilation of personal views on aspects of management.
- B.283 3pp typescript of article with annotations; 3pp typescript with manuscript corrections.

Publications, speeches and lectures

- B.284 Correspondence between Hill and Wild *re* article, 25 November 1980 - 28 September 1981.
- B.285, B.286 'International Collaboration in Nuclear Fuel Services', article for *Nuclear Engineering International*, February 1981.
- B.285 8pp photocopied typescript draft with manuscript corrections (first page of article is missing); 7pp typescript.
- B.286 Correspondence between British Nuclear Fuels Limited, Nuclear Engineering International and Hill, 21 November 1980 - 17 February 1981.
- B.287-B.289 'The Question of Public Acceptance of Nuclear Power', Dallas Lecture, Glasgow Junior Chamber of Commerce, Glasgow, 10 March 1981.
- B.287 16pp typescript of lecture.
- B.288 Correspondence *re* lecture, 10 September 1980 - 20 February 1981.
- B.289 Papers *re* lecture, includes 35pp photocopied typescript of lecture from previous year by Sir David McNee and 2pp photocopied typescript list of all Dallas Lectures since 1944.
- B.290-B.292 'Fact and Fiction in the Nuclear Debate', British Nuclear Medicine Society, Annual Congress, Imperial College, London, 6 April 1981.
- B.290 17pp typescript of lecture; 14pp photocopied typescript with manuscript corrections; 5pp manuscript draft of lecture (this is only part of the lecture).
- B.291 Correspondence *re* arrangements, 24 October 1980 - 2 April 1981.
- B.292 Material related to congress, including articles possibly used by Hill when writing his lecture.

Publications, speeches and lectures

- B.293-B.295 Council of Engineering Institutions (CEI) Northern Branch Annual Lecture, Department of Physics, University of Newcastle, 4 April 1981.
- B.293 16pp photocopied typescript with manuscript corrections; 17pp photocopied typescript with manuscript corrections. An earlier version of this paper had been given as the 1981 Dallas Lecture, see B.287.
- B.294 Correspondence *re* arrangements, 4 September 1980 - 18 June 1981.
- B.295 'Fact and Fiction in the Nuclear Debate', *Northern Executive*, Issue No. 2, (1981).
- B.296-B.298 'Public Attitudes to Nuclear Power', Canadian Nuclear Association 21st Annual International Conference, Ottawa, Canada, 7-9 June 1981.

The theme of this conference was Canada's Nuclear Contribution to World Energy Supply.
- B.296 7pp typescript of conference paper; slightly different 4pp photocopied typescript.
- B.297 Papers *re* arrangements, including agenda for conference and booklet.
- B.298 Correspondence *re* arrangements, 16 January - 13 July 1981.
- B.299-B.301 Address given at the Honorary Degree Ceremony, Bradford University, Yorkshire, 11 July 1981.

Hill received an Honorary Doctorate in Science (D.Sc.) at this ceremony.
- B.299 8pp typescript of address with manuscript corrections.
- B.300 Papers *re* the ceremony, including biographical details of other recipients of honorary degrees.
- B.301 Correspondence *re* arrangements, 30 July 1980 - 13 July 1981.

Publications, speeches and lectures

- B.302, B.303 'Twenty Five Years of Nuclear Power', article for *Nuclear Active*, October 1981.
- B.302 4pp typescript of article.
- B.303 Correspondence *re* publication, 16 June - 8 December 1981.
- B.304, B.305 'Twenty Five Years of Nuclear Power', *New Scientist*, 19 November 1981, pp11-13
- B.304 6pp typescript of article; 3pp photocopied offprint.
- B.305 Correspondence *re* article, 27 August 1981 - 1 December 1981.
- B.306, B.307 'The Future for Nuclear Power in Europe', *Nuclear Europe*, No. 2, November 1981.
- B.306 3pp typescript of article.
- B.307 Correspondence *re* article, 7 October - 25 November 1981.
- B.308 Institute of Energy, North-Eastern Section Dinner Dance, 16 October 1981.
Correspondence and papers *re* arrangements, 24 April - 8 October 1981.
- B.309 'Fact and Fiction in the Nuclear Debate', Industrial Fuel Economy Group, 20 October 1981.
Correspondence *re* arrangements for lecture, 30 October 1980 - 6 January 1981. Lecture not included, see B.295.
- B.310 Kent & Sussex Branch Council of Engineering Institutions (CEI), 1981 Annual Lecture, Marconi Avionics, Rochester, Kent, 27 October 1981.
Correspondence *re* arrangements, 31 January - 8 October 1981.

Publications, speeches and lectures

- B.311, B.312 'Fact and Fiction in the Nuclear Debate', Energy Industries' Club Luncheon Meeting, London, 20 October 1981.
- B.311 5pp typescript of address.
- B.312 Correspondence *re* arrangements, 30 March - 1 October 1981.
- B.313, B.314 British Nuclear Energy Society International Conference on Fast Reactor Fuel Cycles, Café Royal, London, 9-12 November 1981.
- B.313 6pp typescript of opening address.
- B.314 Correspondence *re* arrangements, 23 June - 21 October 1981; programme.
- B.315, B.316 'Public Attitudes to Nuclear Power', London and Home Counties Section, Institute of Energy, Royal Institution, London, 4 February 1982.
- B.315 7pp typescript of lecture.
- B.316 Correspondence between K. Barnham of Imperial College, London and Hill, *re* his lecture at the Royal Institution, 9 March 1982 - 25 March 1982.
- B.317, B.318 'The Cost of the Fuel Cycle in the Overall Cost of Nuclear Power in the U.K.', 15th Japan Atomic Industrial Forum Annual Conference, Tokyo, 8-10 March 1982.
- B.317 2pp typescript of synopsis; 8pp typescript of speech + list of slides; 8pp typescript of speech with annotations and manuscript corrections.
- B.318 Correspondence and papers *re* Conference, includes 3pp typescript of *BNFL News* item about Hill's speech and pamphlet from conference.
- B.319-B.321 The Institute of Energy Scottish Section, Annual Dinner, Royal Scottish Automobile Club, Glasgow, 7 April 1982.

Publications, speeches and lectures

- B.319 5pp manuscript of speech; 6pp typescript of speech; 6pp photocopied typescript with manuscript corrections.
- B.320 Correspondence *re* arrangements, 2 December 1981 - 17 March 1982.
- B.321 Papers *re* Annual Dinner, includes *BNFL News* item about Hill's speech in Glasgow.
- B.322-B.324 'Pressurised Water Reactor in the U. K.' Institution of Mechanical Engineers Conference, London, 11 April 1982.
- B.322 4pp typescript of closing speech.
- B.323 Correspondence *re* arrangements, 10 February - 13 May 1982.
- B.324 Papers detailing the Conference agenda and delegates.
- B.325-B.327 'An Expanding Nuclear Programme and the World Energy Glut', American Nuclear Society (ANS)/European Nuclear Society (ENS) Conference, Brussels, Belgium, 26-30 April 1982.

Prior to this conference Hill had been elected Honorary Member of the European Nuclear Society (ENS).
- B.325 7pp typescript; 7pp photocopied typescript with manuscript corrections, 29 April 1982.
- B.326 Correspondence *re* arrangements, 4 September 1981 - 22 April 1982.
- B.327 Papers *re* conference, includes programme and lecture by G. Vendryes.

Publications, speeches and lectures

- B.328 Mesopotamia & Pieforce Annual Dinner, East India Club, London, 25 June 1982.
4pp typescript of notes for speech with manuscript corrections; correspondence.
- B.329, B.330 'Nuclear Power in a Reduced Energy Market', *Coal and Energy Quarterly*, August 1982.
- B.329 7pp typescript of article.
- B.330 Correspondence between Hill and the National Coal Board *re* article, 11 May - 26 August 1982.
- B.331-B.333 'The Formation of Public Attitudes to Nuclear Power', Uranium Institute, Seventh Annual Symposium, London, 1-3 September 1982.
- B.331 7pp typescript of lecture; 5pp typescript of lecture with manuscript corrections.
- B.332 Programmes and background material.
- B.333 Correspondence *re* arrangements for the symposium, 24 March - 26 July 1982.
- B.334 'Sizewell Inquiry', October 1982.
2pp typescript containing paragraphs requested by Sir Alistair Frame, Managing Director of UKAEA, following a meeting about the future of nuclear energy; 3pp typescript 'Dounreay and the Fast Reactor' with attached correspondence from Hill to Lord McAlpine.
- B.335, B.336 'The Problems of New Technologies in a Rapidly Changing Energy Situation', Wilson Campbell Lecture, Department of Mechanical Engineering, University of Newcastle upon Tyne, 14 March 1983.

Publications, speeches and lectures

- B.335 Annotated 16pp photocopied typescript of lecture; offprint from *Proc. Institution of Mechanical Engineers*, Vol. 198A, (1983), pp107-112, (Originally published in *Atom*, May 1983).
- B.336 Correspondence between Hill and L. Maunder of the Department of Mechanical Engineering, University of Newcastle upon Tyne, 1 February - 29 July 1982.
- B.337 'Expectations in the World Energy Nuclear Market', Energy International N. V., March 1983.

5pp typescript of lecture.
- B.338 Foreword for Simon Rippon's book 'Nuclear Energy', n. d.

2pp typescript.
- B.339 Notes for talk to EEPTU Course, Esher, Surrey, 19 January 1983.

1p typescript of notes.

B.340-B.346

LATER SPEECHES AND LECTURES

1987-1994

- B.340 Ned Franklin Tribute, 27 January 1987.

29pp typescript of address given at N. L. Franklin's Memorial Service; 5pp biographical note; correspondence *re* service, 27 January - 4 February 1987.
- B.341 Tom Marsham Memorial Lecture, University of Liverpool, 20 February 1991.

6pp typescript on T. N. Marsham's life and career; correspondence; poster.

Publications, speeches and lectures

B.342 'The Formative Years of URENCO', Blenheim Palace, Oxfordshire, 5 June 1992.

Urenco Limited was an organisation set up in Britain to oversee the operation of centrifuge plants.

7pp typescript of lecture with manuscript corrections; correspondence from R. Pannier of Urenco Limited, 17 June 1992 with correspondence dating from 1968 which relates to a presentation given by Hill to Urenco Limited in that year.

B.343 'The Closure of the Prototype Fast Reactor', 30 March 1994.

16pp typescript of lecture.

B.344 Harwell 50th Anniversary, ca. 1996.

7pp photocopy of typescript for speech to celebrate 50th anniversary of the Atomic Energy Research Establishment, Harwell.

B.345 'The Problem of Nuclear Waste', n. d.

6pp photocopied typescript of lecture with manuscript corrections.

B.346 'The Case for Thorp', n. d.

2pp photocopy of typescript written by Hill and W. Wilkinson. This is a reply to a paper written by Frans Berkhout entitled 'Should THORP operate'.

B.347-B.350

OFFPRINTS

1946-1994

A set of Hill's publications from 1946 to 1994 are included here. They have been presented in four folders.

B.347 1946 - 1950.

'Rate of spread of discharge along the wire of a Geiger counter', *Nature* Vol. 158, (1946), p 833.

'The Decay of Barium¹³⁹', *Nature*, Vol. 162, (1948), p 566.

Publications, speeches and lectures

'The Half life time of Thorium C¹', *Proceedings of the Cambridge Philosophical Society*, Vol. 44, (1949), p 440.

'The Decay of Holmium¹⁶⁶', *Nature*, Vol. 163, (1949), p 524.

'Slow Neutron induced activities in Europium and Samarium', *Proceedings of the Physical Society*, A, Vol. 63, (1950), p 126.

B.348

1973 - 1977.

'This is my answer to the Fuel Crisis', *Achievement*, July 1973.

'Future trends in Nuclear power generation', *Phil. Trans. R. Soc. Lond. A*. Vol. 276, (1974), pp 587-601.

'Nuclear Power comes of Age', *J. Br. Nucl. Energy Soc.*, Vol. 15, (April 1976), pp 105-109.

'Nuclear Power: the achievements, the problems – and the myths', Melchett Lecture, *Journal of the Institute of Fuel*, (March 1976), pp 3-10.

'Nuclear Power: The World's Need', *Atom*, Vol. 246, (April 1977), pp 59-62.

'Nuclear Power Generation', *Physics in Technology*, (July 1977), pp 152-156.

'International Proliferation of Nuclear Weapons', *Proceedings of the Royal Institution*, (October 1977), pp 287-296. 10pp photocopy of typescript only.

'Today's economies should more reflect the economies of the future', *Energy World*, n. d. (Hill gave this address to the Fuel Luncheon Club on 18 October 1977).

B.349

1978.

'Why Nuclear Energy?', *Geological Society Miscellaneous Paper*, No. 7, March 1978, pp 4-11.

Publications, speeches and lectures

'Nuclear Power in the Public Eye', *Journal of the Royal Society of Arts*, Vol. 126, (1978), pp 252-264.

'Nuclear Waste Disposal', *Electronics & Power*, (May 1978), pp 347-352.

'Nuclear Power and the Environment', *Atom*, Vol. 260, (1978), pp 159-164.

B.350

1983 - 1994.

'The Problems of New Technologies in a Rapidly Changing Energy Scene', Wilson Campbell Lecture, *Proceedings of the Institution of Mechanical Engineers*, Vol. 198A, (1983), pp 107-112.

'British Technology and the World Nuclear Industry', *Nuclear Energy*, Vol. 23, (1984), pp 357-363.

Editorial for *Nuclear Europe* Special Issue on Britain, January 1985. 3pp photocopy of typescript only.

Introduction to *Energy World: Bulletin of the Institute of Energy*, No. 161, August 1988.

'Science – the key to the World we live in', *Leading Speeches*, Vol.3, (1991), pp 77-86.

'Keynote Address – PFR: A Retrospective', *Nuclear Energy*, Vol. 33, (1994), pp 249-254.

SECTION C CORRESPONDENCE C.1-C.20

C.1-C.14 CHRONOLOGICAL

C.15, C.16 MISCELLANEOUS CORRESPONDENCE

C.17-C.20 REFERENCES AND RECOMMENDATIONS

C.1-C.14 CHRONOLOGICAL 1980-1983

This correspondence runs in a chronological sequence, 1980 - 1983. The material consists of carbon copies of correspondence from Hill to ministers in the Department of Energy, and to others in various organisations and institutions in Britain and abroad. During the period covered by this correspondence Hill was President of the Institute of Energy, Chairman of British Nuclear Fuels Ltd and Chairman of Amersham International plc.

C.1 11 February 1980 - 30 March 1980. OPEN

C.2 1 July 1980 - 29 September 1980. OPEN

C.3 6 October 1980 - 23 December 1980. OPEN

C.4 19 February 1981 - 30 March 1981. OPEN

C.5 6 April 1981 - 29 April 1981. OPEN

C.6 6 May 1981 - 29 June 1981. OPEN

C.7 6 July 1981 - 29 September 1981. OPEN

C.8 2 October 1981 - 23 December 1981. OPEN

Correspondence

- | | | |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| C.9 | 4 January 1982 - 28 January 1982. | OPEN |
| C.10 | 1 February 1982 - 29 March 1982. | OPEN |
| C.11 | 1 April 1982 - 30 June 1982. | OPEN |
| C.12 | 1 July 1982 - 23 September 1982. | OPEN |
| C.13 | 4 October 1982 - 23 December 1982. | OPEN |
| C.14 | 4 January 1983 - 18 March 1983. | OPEN |
| C.15, C.16 | MISCELLANEOUS CORRESPONDENCE | 1972, n.d., 1991 |
| C.15 | Two letters to Hill from British Prime Ministers. One letter is from Edward Heath, 28 March 1972, and the other is from Margaret Thatcher, n. d. Both letters were kept separately from the rest of the correspondence, presumably by Hill. | |
| C.16 | Letter from Hill to J. M. Bird <i>re</i> nuclear research and development programmes and the future of nuclear design and construction in the UK, 26 September 1991. | |
| C.17-C.20 | REFERENCES AND RECOMMENDATIONS | 1974-1982 |
| | Presented in original, reverse chronological order. | |
| C.17 | 28 September 1981 - 16 August 1982. | OPEN |

Correspondence

C.18	1 November 1978 - 14 July 1981.	OPEN
C.19	10 October 1977 - 18 August 1978.	OPEN
C.20	12 January 1974 - 14 March 1977.	OPEN

INDEX OF CORRESPONDENTS

AIR PRODUCTS EUROPE LIMITED	C.13
ALLDAY, Coningsby	C.1-C.5, C.13
A. L. HANCOX & PARTNERS, CONSULTING ENGINEERS	B.320
AMERICAN NUCLEAR SOCIETY	B.137
AMERSHAM INTERNATIONAL PLC	C.6, C.10-C.11 See also UKAEA RADIOCHEMICAL CENTRE
ANNAN IMPEY MORRISH, MANAGEMENT CONSULTANTS	C.5
APPLIED BIOLOGY INC, FLORIDA, USA	B.305
ASSOCIATION FOR THE CONSERVATION OF ENERGY	C.7
ATOMIC ENERGY BOARD, PRETORIA, SOUTH AFRICA	B.301
ATOMIC ENERGY ESTABLISHMENT, EGYPT	B.230
ATOMIC ENERGY OF CANADA LIMITED	B.298
BABCOCK & WILCOX (OPERATIONS) LIMITED, POWER & PROCESS DIVISION	B.48
BAKER, Kenneth Wilfred, Baron Baker of Dorking	C.11
BATTELLE, PACIFIC NORTHWEST LABORATORIES	B.190
BENJAMIN, C. B.	C.5
BENN, Anthony Neil Wedgwood ('Tony')	B.147
BENYON, Thomas Yates	C.13, C.14
BIRCH, F. H.	B.182
BRISTOL POLYTECHNIC	B.305
BRITISH BROADCASTING CORPORATION	B.58
BRITISH GAS CORPORATION	B.43, B.85, B.88, C.7, C.8, C.9
BRITISH GAS MIDLANDS RESEARCH STATION	C.7
BRITISH INSTITUTE OF MANAGEMENT	B.268

Index of correspondents

<i>BRITISH JOURNAL OF RADIOLOGY</i>	B.190
BRITISH NUCLEAR ENERGY SOCIETY (BNES)	B.82, B.222, B.307 B.314
BRITISH NUCLEAR FORUM	B.239
BRITISH NUCLEAR FUELS LIMITED	B.60, B.172, B.190, B.227, B.239, B.286, B.288, B.340, C.1- C.3, C.5, C.7, C.13, C.19
BRITISH NUCLEAR ENGINEERING SOCIETY	B.82, B.150
BRITISH PETROLEUM COMPANY LIMITED	B.85, C.5
BRITISH STEEL CORPORATION	B.133, C.6
BROADHURST, J. S.	C.5
BOOTH, Albert Edward	C.2, C.11
CALLOW, J. H.	C.10, C.11
CAMBRIDGE UNION SOCIETY	B.216
CANADIAN NUCLEAR ASSOCIATION	B.298
CARLISLE, Mark, Baron Carlisle of Bucklow	C.7
CASE WESTERN RESERVE UNIVERSITY, OHIO, USA	B.79
CASTELLO, J. L.	C.12
CENTRAL ELECTRICITY GENERATING BOARD	B.32, B.278
CENTRE FOR ECONOMIC & SOCIAL INFORMATION, SWITZERLAND	B.77
CHARLES BARKER WATNEY & POWELL, PARLIAMENTARY CONSULTANTS	B.278
CIVIL SERVICE COLLEGE, ASCOT, BERKSHIRE	B.110
COAL INDUSTRY SOCIETY	B.64
COMPANY OF LAUNDERERS	B.67-B.69
CONSERVATIVE RESEARCH DEPARTMENT	B.155
COOK, Robert Finlayson ('Robin')	C.12
CORNING GAS WORKS, NEW YORK, USA	B.182

Index of correspondents

COTTRELL, Sir Alan Howard	B.222
COUNCIL OF ENGINEERING INSTITUTIONS	B.294, B.310
COX, Peter	C.7
CREMER AND WARNER, CONSULTING ENGINEERS AND SCIENTISTS	B.312
<i>DAILY TELEGRAPH</i>	B.126
DAVIS, Kenneth	C.14
DIBBEN, Ian	C.17
DITCHLEY FOUNDATION	B.196
DODD, C.	C.8
DOXFORD ENGINES LIMITED	B.294
DUNSTER, H. J.	C.4
DURHAM UNION SOCIETY	B.140
EAST MIDLANDS ELECTRICITY BOARD	B.43
EDWARDS, J.	C.6-C.8, C.11, C.13
ELECTRICAL POWER ENGINEERS' ASSOCIATION	B.240
ELECTRICITY COUNCIL	B.196, C.3, C.19
ELECTRIC POWER RESEARCH INSTITUTE, USA	B.222
<i>ELECTRONICS & POWER</i>	B.182
ELLIS, J.	C.8
ENERGY RESEARCH ADVISORY BOARD	C.7, C.18
ENGLAND, G.	C.3
ENTE NAZIONALE PER L'ENERGIA ELETTRICA, ITALY	B.281
EURATOM SUPPLY AGENCY	C.14
EUROPEAN NUCLEAR SOCIETY (ENS)	B.307, B.326
EZRA, Derek, Baron	C.8, C.11

Index of correspondents

FAIREY HOLDINGS LIMITED	C.7
FERRANTI LIMITED	B.46
FISHER, Frank	C.13
FORMAN, Nigel Francis	B.242
FORREST, John Samuel	B.126, C.11
FRAME, Sir Alistair Gilchrist	C.14
FRANK CASS & CO LTD	B.232
FRANKLIN, Norman Laurence	B.137
FRIENDS OF THE EARTH, EDINBURGH BRANCH	B.126
GIBB, Frank R.	C.8
GLASGOW JUNIOR CHAMBER OF COMMERCE	B.288
<i>GLOBE AND MAIL, CANADA</i>	B.167
GOWANS, Sir James Learmouth	C.14
GRAHAM, Thomas Edward	C.8
GREAT BRITAIN AND NORTHERN IRELAND	
CABINET OFFICE, LONDON	B.108, B.342
CIVIL SERVICE COMMISSION	C.20
DEPARTMENT OF EMPLOYMENT	C.8
DEPARTMENT OF ENERGY	B.85, B.147, B.172, B.205, B.227, B.232, B.246, B.258, B.264, C.2, C.5, C.7, C.9, C.10, C.12, C.16
DEPARTMENT OF HEALTH AND SOCIAL SECURITY	B.291
DEPARTMENT OF INDUSTRY	B.260
DEPARTMENT OF THE ENVIRONMENT	B.85
DEPARTMENT OF TRADE AND INDUSTRY	B.41, B.43
MINISTRY OF TECHNOLOGY	A.5
SAFETY AND RELIABILITY DIRECTORATE	B.260

Index of correspondents

GREENPEACE LIMITED	C.1
GROVE, W. P.	C.9, C.11
HARVARD UNIVERSITY, USA	B.190
HAYMAN, Roy	C.7
HEATH, Sir Edward Richard George	C.15
HERIOT-WATT UNIVERSITY, EDINBURGH	B.275
HESELTINE, Michael Ray Dibden	C.11
HINTON, Christopher, Baron Hinton of Bankside	B.126
HOOLEY, Frank	B.242
HOWELL, David Arthur Russell	C.2, C.3, C.6, C.7
HUNT, David James Fletcher	C.14
IM-PRESS, PUBLIC RELATIONS CONSULTANTS	B.68, B.72
INDUSTRIAL FUEL ECONOMY GROUP	B.309
INGLIS, G. H.	C.2-C.4
INSTITUTE OF CREDIT MANAGEMENT	B.177
INSTITUTE OF ENERGY	B.216, B.307, B.320, C.7, C.8, C.10, C.13
INSTITUTE OF FUEL	B.85, B.216
INSTITUTE OF PETROLEUM	B.273
INSTITUTE OF PHYSICS	B.103
INSTITUTION OF CHEMICAL ENGINEERS	C.10, C.18
INSTITUTION OF CIVIL ENGINEERS	B.82, B.150, B.222
INSTITUTION OF ELECTRICAL ENGINEERS	B.120, B.182
INSTITUTION OF GAS ENGINEERS	B.88
INSTITUTION OF MECHANICAL ENGINEERS	B.32, B.48, B.323, C.19
INSTITUTION OF MINING AND METALLURGY	B.128
INSTITUTION OF NUCLEAR ENGINEERS	B.222, C.5, C.18, C.19

Index of correspondents

INSTITUTION OF PROFESSIONAL CIVIL SERVANTS	B.94
INTERNATIONAL ATOMIC ENERGY AGENCY	B.137, C.13
INTERNATIONAL GAS UNION	B.96
IRELAND, Frank Edward	C.7, C.17
ITEC BUSINESS DEVELOPMENT S.V.	C.14
JAPAN ATOMIC INDUSTRIAL FORUM INC	B.318
JEFFERSON PHYSICAL LABORATORY, USA	B.190
JENKIN, Charles Patrick Fleeming, Baron Jenkin of Roding	B.82, B.85
JOHNSON, K. D. B.	C.9
JONES, Aubrey	C.14
JONES, Arthur HOPE-	B.328
KAISER, Karl	B.232
KENDREW, Sir John Cowdrey	C.4, C.5-C.6
KINGSTON POLYTECHNIC, SURREY	B.92
KLEIN, Franz Josef	B.232
LAMONT, Norman Stewart Hughson, Baron Lamont of Larwick	B.258, C.6
LAWSON, Nigel, Baron Lawson of Blaby	C.8, C.11, C.14
<i>LEADERS</i>	B.266
LLOYDS REGISTER OF SHIPPING	C.7
LOCKE, J. H.	C.13
LONDON CHAMBER OF COMMERCE AND INDUSTRY	C.9
LONDON ELECTRICITY BOARD	C.11
LONGWORTH, F. W.	C.4
LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY	C.4

Index of correspondents

MACFARLANE, Neil	B.155
MAITLAND, Donald James Dundas	C.5, C.7, C.8, C.12, C.13
MARSHAM, Thomas Nelson	B.196, C.5
MARSHALL, Walter Charles, Baron	C.13
MASON PITTENBURGH AND PARTNERS, CONSULTING ENGINEERS	B.308, C.9
MAYNARD, J. C.	C.12
MEDIA INSTITUTE, WASHINGTON DC, USA	C.9
MELLOR, David John	C.10-C.12
MENTER, Sir James Woodham	C.11
MERZ AND MCLELLAN, CONSULTING ENGINEERS	B.46
MONTREAL ENGINEERING COMPANY LIMITED, CANADA	C.10
MOORE, John Edward Michael	C.8, C.10, C.13
NATIONAL ACADEMY OF ENGINEERING, WASHINGTON DC, USA	C.7, C.8, C.17, C.18
NATIONAL & GRINDLEYS BANK LIMITED	B.85
NATIONAL COAL BOARD	B.79, B.163, B.330, C.7, C.8, C.9, C.10
NATIONAL COAL BOARD, STAFF COLLEGE	B.64
NATIONAL NUCLEAR CORPORATION LIMITED	B.167
NATIONAL RADIOLOGICAL PROTECTION BOARD	B.275, B.291, C.6
NEW COLLEGE, OXFORD	B.246
<i>NEW SCIENTIST</i>	B.305
NORTH EAST LONDON POLYTECHNIC	B.251
NORTH WESTERN FUEL LUNCHEON CLUB	B.210
NORTHERN ENGINEERING INDUSTRIES LIMITED	B.288
NUCLEAR ENERGY BOARD, IRELAND	C.20
NUCLEAR ENGINEERING INTERNATIONAL	B.286
NUCLEAR ENGINEERING SOCIETY	B.75
NUCLEAR EXCHANGE CORPORATION, CALIFORNIA, USA	C.5

Index of correspondents

NUCLEAR POWER COMPANY LIMITED	B.82, B.137
NURSING RESEARCH UNIT	B.275
N. W. GAS	C.11
OREGON STATE UNIVERSITY, USA	B.305
ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT (OECD)	B.172
OKABE, Minoru	C.13
OWEN, David Anthony Llewellyn, Baron	B.256
OXFORD UNION SOCIETY	B.246
PAISLEY COLLEGE OF TECHNOLOGY	B.72
PALMER, Arthur Montague Frank	B.155 B.248
PARLIAMENTARY ALL PARTY MINERALS GROUP	B.278
PARLIAMENTARY LIAISON GROUP FOR ALTERNATIVE ENERGY STRATEGIES	B.242
PENNSYLVANIA STATE UNIVERSITY, USA	B.79
PENNEY, William George, Baron	B.196
PETER, Y. E.	C.13
PHILADELPHIA ZOOLOGICAL GARDEN, USA	B.305
PICK EVERARD KEAY AND GIMSON, CONSULTING ENGINEERS ARCHITECTS AND SURVEYORS	B.222
PONSONBY, Frederick Edward Neuflyze, 10 th Earl of Bessborough	B.167
PORTILLO, Michael	B.155
POWELL, Richard Royle	B.275
PRIOR, James Michael Leathes, Baron	C.7
REACTOR RESEARCH CENTRE, INDIA	B.56
RIO TINTO-ZINC CORPORATION LIMITED	B.35
RIPPON, Simon	C.13

Index of correspondents

RISO NATIONAL LABORATORY, DENMARK	B.281
ROOKE, Sir Denis Eric	C.5
ROOT & BROWN (U K) LTD	C.5
ROTHSCHILD, Edmund de	C.14
ROYAL COLLEGE OF DEFENCE STUDIES	B.37, B.49, B.52
ROYAL COLLEGE OF SCIENCE ASSOCIATION	B.91
ROYAL ORDANCE FACTORIES	C.14
ROYAL SOCIETY	B.54, B.16, C.7, C.19
SALMON, Alan	C.20
SCOTSMAN	B.224
SEDGWICK, PERSONAL FINANCIAL MANAGEMENT LIMITED	C.14
S. G. WARBURG & CO LTD	B.79, B.85, B.205, C.6, C.8
SHAW, T. L.	B.222
SHELL CENTRE, LONDON	B.200
SHELL INTERNATIONAL MARINE LIMITED	B.85
SHILLING, John W.	C.6
SIEMENS	C.4, C.5
SILSOE, David Malcolm Trustram Eve, Baron	B.186
SKEET, Trevor Herbert Harry	B.262, B.278, C.7
SKODA WORKS, CZECHOSLOVAKIA	B.305
SMITH, Peter	C.10
SMITH, R. C.	C.9
SOUTH OF SCOTLAND ELECTRICITY BOARD	B.224, B.275, C.3, C.11
SPENCER, Sir Kelvin Tallent	C.13
STEEL, Sir David Edward Charles	C.5

Index of correspondents

THATCHER, Margaret Hilda, Baroness	B.167, C.13, C.15
<i>THE TIMES</i>	C.14
THIRSK AND MALTON CONSERVATIVE ASSOCIATION	C.4
THOMAS TILLING LIMITED	C.3
TIMBS, Maurice C.	B.234
UNION CARBIDE U K LIMITED	C.7
UNITED KINGDOM ATOMIC ENERGY AUTHORITY	B.60, B.72, B.82, B.124, B.126, B.142, B.172, B.190, B.232, B.301, B.326, B.333, C.8, C.10, C.17, C.18
ATOMIC ENERGY ESTABLISHMENT, WINFRITH, DORSET	B.326
ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL: CHEMICAL TECHNOLOGY DIVISION	B.160, B.172, B.182, B.190, B.281
ATOMIC WEAPONS RESEARCH ESTABLISHMENT, ALDERMASTON	B.190, C.4
CULHAM LABORATORY	B.211, B.270, C.11
RADIOCHEMICAL CENTRE	B.190, B.291, C.2 See also AMERSHAM INTERNATIONAL PLC
WINDSCALE AND CALDER WORKS, CUMBRIA	B.60
UNITED REPROCESSORS GMBH, KARLSRUHE, GERMANY	C.9
UNIVERSITY OF BRADFORD	B.301, C.7
UNIVERSITY OF CALGARY, CANADA	B.56
UNIVERSITY OF CAMBRIDGE	B.208, C.9
UNIVERSITY OF DUNDEE	C.10
UNIVERSITY OF KENT AT CANTERBURY	B.253
UNIVERSITY OF LANCASTER	B.232
UNIVERSITY OF LIVERPOOL	B.341

Index of correspondents

UNIVERSITY OF LONDON	
KING'S COLLEGE	B.153
IMPERIAL COLLEGE	B.278, B.316, C.10
UNIVERSITY OF NEWCASTLE UPON TYNE	B.336
UNIVERSITY OF SHEFFIELD	C.10
UNIVERSITY OF STRATHCLYDE	B.126, B.160
UNIVERSITY OF YORK	B.142
URANIUM INSTITUTE, LONDON	B.242, B.332, B.333
URENCO LIMITED	B.342
WALDEGRAVE, William Arthur	C.1
WARLEY COLLEGE OF TECHNOLOGY, WEST MIDLANDS	C.8
WARREN, W. P.	C.20
WAVEPOWER LIMITED	C.7
WELSH DEVELOPMENT AGENCY	C.20
WEST CUMBERLAND TECHNICAL SOCIETIES	B.60
WESTINGHOUSE ELECTRIC SA, BELGIUM	B.82
WESTINGHOUSE ELECTRIC CORPORATION, USA	B.298, C.6
WHITE, E. A.	C.7
WHITLEY, S.	C.19
WILD, Ray	B.284
WILLIAMS, Alan John	C.13
WYNDHAM SCHOOL, CUMBRIA	C.8
YORKSHIRE ELECTRICITY BOARD	B.120, B.182
ZALESKI, C. P. L.	C.11
ZENTRALSTELLE FUR ATOMKERNENERGIE – DOKUMENTATION (ZAED), WEST GERMANY	B.56