

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

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Catalogue of the papers and correspondence of

CHRISTOPHER HINTON OM, KBE, FRS, FEng

BARON HINTON OF BANKSIDE

(1901 - 1983)

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VOLUME II

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Deposited at The Institution of Mechanical Engineers, London

1986

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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 CEGB, 28 September 1972.
7pp. draft.
- F.70 Speech delivered at the Good Housekeeping Presentation, Thornhill Power Station, CEGB, 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.

Continued

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.

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 CEEGB.

Carbon copy, dated 10 June 1981.

To New Civil Engineer, re funding of British Council of Engineering.

Carbon copy, dated 10 February 1982.

F.213	<u>Academic Press Inc. (London) Limited</u>	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	<u>The Athlone Press</u>	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	<u>Basil Blackwell Publisher</u>	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.

F.227	<u>The Journal of Resource Management and Technology</u>	1982, 1983
	Includes invitation to Hinton to serve on Editorial Board.	
F.228	<u>Michael Joseph Ltd.</u>	1981
	Brief correspondence <u>re</u> Hinton's review of a book.	
	<u>Nature</u>	1978
	Brief correspondence <u>re</u> review of a book, which Hinton eventually declined to write.	
	<u>Oxford University Press</u>	1980
	Hinton's comments on booklet 'The Economics of Oil'.	
	<u>Pergamon Press Ltd.</u>	1976
	Request for comments on a book, with Hinton's reply.	

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.

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|------|---|------|---------------------|
| 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.

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
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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).

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'.

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.

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

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.

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

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 CEGB 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.

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| H.117 | 1974 November. Arrangements for preliminary meeting, in London, December. |
| H.118 | 1974 December. 'Notes' of preliminary meeting; correspondence <u>re</u> 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 <u>re</u> Hinton's agreement to work with Commission. |
| H.122 | 1975 December. Includes list of discussion points <u>re</u> 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 | Kearon, 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

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

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	Odeh, 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

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

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|------|---|------------|
| 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

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|------|---|------|---------|
| 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, Kyoyamato, 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.
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- 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.

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