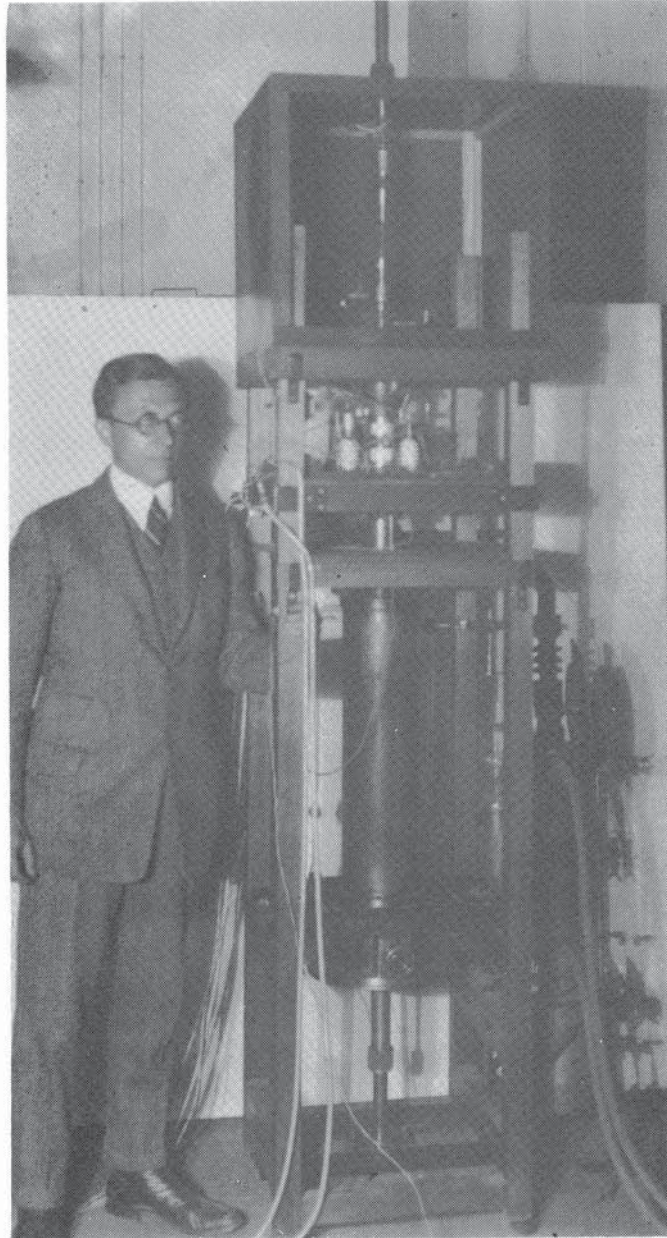




List of Papers

Dennis Gabor FRS
1900–1979

Imperial College Archives



Dennis Gabor and his cathode ray oscillograph, Berlin, 1927.
Item D36/1

* * * * *

IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY
(University of London)

List of the papers and correspondence of

DENNIS GABOR FRS

1900 - 1979

Compiled by Jeanne Pingree

* * * * *

IMPERIAL COLLEGE ARCHIVES

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Imperial College Archives

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I L L U S T R A T I O N S

Dennis Gabor and his cathode ray oscillograph, Berlin, 1927. Item D36/1	Frontispiece
Dennis Gabor and his brothers George and Andre. Items D/42, D7/1, D9/4	facing page 5
Poster for the Nobel Lecture at Imperial College, 22 February 1972. From the Imperial College Archives collection of posters.	facing page 22
Experimental set-up for production of holograms giving the illusion of wide space such as landscapes etc, 27 July 1967. From file LA/9	facing page 27
Letter from Dennis Gabor to Max Born, 15 June 1948. From file MB10/1	facing page 32

INTRODUCTORY NOTE

Professor Denis Gabor's papers were transferred from his former office in the Imperial College Electrical Engineering Department to the archives in the Summer of 1979, with the permission of the late Mrs Marjorie Gabor.

Subsequently Mr Andre Gabor added a number of family photographs and other items, and further material was transferred from the Department. Some administration files from the archives have also been added.

The papers were arranged in bundles in a cabinet specially designed by Professor Gabor (the drawing for this is in EB 12/6) and in filing cabinets. The arrangement of the papers has been adhered to as far as possible, and the original file or folder title given as the first sentence in each description. The general correspondence was arranged according to the language of the correspondent, French, German or Hungarian: these have been put in one sequence. Many of the professor's notes are typewritten, as is his outgoing correspondence. There are forty boxes and ancillary material.

Mr David Kitchen, Mrs M Gabor's nephew, has contributed Nobel prize memorabilia.

Unless otherwise stated the material described is in English.

J Pingree, College Archivist
November 1986

OUTLINE OF THE LIFE OF DENNIS GABOR

Born 5 June 1900, in Hungary

- | | |
|----------------------|---|
| 15 March 1918 | Called up for military service |
| 1918 | Attended Technical University, Budapest, for four year course in Mechanical Engineering |
| 1921-24 | Attended course in Electrical Engineering Department, Technische Hochschule, Berlin |
| 1924 | Awarded Diplom-Arbeit |
| 1927 | Awarded Doctorate. Employed at Siemens and Halske, Siemenstadt |
| 1934 | Went to England and employed by the British Thomson Houston Company (BTH) Rugby |
| 8 August 1936 | Married Marjorie Butler |
| December 1938 | Visit of Andre Gabor to England: persuaded by D G to become permanent resident |
| 1939 | Registered as Alien with special qualification |
| 1942 | Death of father in Hungary |
| 1948 | Appointed Reader in Electron Physics, Imperial College |
| 1956 | Elected FRS |
| 1958 | Appointed to personal Chair of Applied Electron Physics, Imperial College |
| 1967 | Retirement from Chair. Appointed Research Fellow and Professor Emeritus |
| December 1971 | Awarded Nobel Prize in Physics |
| Died 9 February 1979 | |

SECTION A

BIOGRAPHICAL MATERIAL, Newscuttings, articles on research, obituary notes

- A/1 Presscuttings. One packet, including
- 25 August 1961 DIE ZEIT, Dennis Gabor: Prophet zwischen Physik und Elektrotechnik.
- 8 June 1965 JERUSALEM POST. Visitor's gallery. Professor Dennis Gabor. A trip for Israel industry.
- January-February 1970 THINK, pp.23-27. Lee Edson: A Gabor named Dennis sells Utopia.
- March-April 1974 TODAY'S EDUCATION pp.51-60. June Grant Shane and Harold G Sharz: An interview with Dennis Gabor. Toward a more mature society.
- June 1972 PROCEEDINGS OF THE IEE pp.653-4. Emmett N Leith: Dennis Gabor, holography and the Nobel Prize.
- 1977 MUSEUM OF HOLOGRAPHY NEWSLETTER, vol.1 no.2. Profile: Dr Dennis Gabor.

- A/2 Presscuttings, articles on holography etc, including:

September-October 1980 OPTICAL ENGINEERING, pp.633-635. Emmett N Leith: The legacy of Dennis Gabor.

- A/3 Obituary notices, including:

BIOGRAPHICAL MEMOIRS OF FELLOWS OF THE ROYAL SOCIETY, vol. 26, December 1980. pp.107-147. T E Allibone, Dennis Gabor 1900 - 1979.

15 March 1979 A service of remembrance and thanksgiving for the life and work of Emeritus Professor Dennis Gabor... Holy Trinity Church, Brompton Road, London S W 7.

23 April 1985 Cybernetics Society, Dennis Gabor memorial lecture, by T E Allibone. Typescript. 14pp.

SECTION B

EARLY PAPERS, FAMILY CORRESPONDENCE

- B/1 January-July 1911 Diary. Illustrated with pencil, pen and ink and watercolour sketches. 64pp. In blue cover with metal clasp. In Hungarian.
- B/2 7 March 1918 Realiskola (Budapest Grammar School) certificate

of final examination. 2ff.

- B/3 12 November 1918 Certificate of discharge from the army. In Hungarian.
- B/4-7 Joseph Technical High School, Budapest
- B/4 November 1918- June 1921 Records of attendance at classes; with details of teachers, subjects etc in Hungarian, with inserted German translation, attested and sealed by Bela Hajos, public notary. Two almost identical booklets.
- B/5 14 May 1920 Leaving certificate. In Hungarian and German.
- B/6 10 September 1921 Letter from the Rector on the award of a 'Dilignenzpreis'. In Hungarian and German. 2ff.
- B/7 21 October 1921 Leaving certificate with record of classes attended, marks obtained etc. 2ff. In Hungarian and German.
- B/8 May 1920-August 1923 Maschinen Fabrik EPP und FEKETE and others. Testimonials for voluntary work, letters of introduction etc. In German.
- B/9 24 June 1920 Identity card with photograph. Issued by the police in Aachen. In French and German.
- B/10 Copy of birth certificate in Hungarian, with German translation attested and sealed by the notary Bela Hajos; 7 August 1920. 3ff.
- B/11 Christening certificate: extract from the Pesth Evangelical Church records; 1919. Two copies, in Hungarian and German, authenticated and sealed by the notary Bela Hajos, 3 September 1920. 2ff.
- B/12 15 September 1920 Vienna Police: permit for five days stay. Postcard. In German.
- B/13 1921-22 Membership card for the Budapest skating club, with signed photograph on the back, in leather holder. In Hungarian.
- B/14 Passport, with photograph. Valid until August 1922. In Hungarian, German, and French.
- B/15-20 Berlin Technische Hochschule, Charlottenberg
- B/15 10 November 1921 Certificate as student of mechanical engineering. In German.
- B/16-21 May 1922-July 1923 Mechanical engineering course: records of classes attended, lecture fees. In German. 6 booklets.
- B/22 20 December 1923 Diplomarbeit Schnelle Ausgleichvorgange auf Sammelschienen. 9lpp. Carbon copy of typescript. Bound.

B/23-28	17 July 1922- 31 January 1924	Examination results for the Mechanical Engineering and Electrotechnology courses, and certificate for the Diplom-Ingenieur. Includes three copies. In German. 6 items.
B/29		Circular issued by the Old Students' Association; letter from the Rector about reprints of thesis, 4 June 1927. In German. 2 items.
B/30	22 November 1923	Residence permit valid until 1 November 1925, with cover. In German.
B/31	1923-1927	'Political documents: curriculum vitae documents'. Residence permits, church rate, correspondence on employment with the 'Studiengesellschaft fur Hochstspannungsanlage'. In German. One file.
B/32		Small cardboard box labelled '30 Oscillogramme der Studiengesellschaft fur Hochstspannungsanlagen' containing eleven small photographs and appendix to Siemens and Halske almanac.
B/33	October 1927	Carbon copy of statement of salary from Siemens and Halske. In German.
B/34	October- November 1927	Two bills for D G and his brother Andre, for rent of room, breakfast etc. In French and German.
B/35	5 and 13 May	Letter from Siemens and Halske to Dr Tibor Reiter, and his reply, on patent rights etc for researches he carried out with D G while in their employ. Carbon typescript. In German. 2 letters.
B/36-39	British Thomson Houston Company	
B/36	1934	Inventors' agreement. Correspondence on development of research on gaseous electric discharge lamps (plasma lamp): option agreement between DG and BTH. File.
B/37	March-June 1936	BTH employment. Correspondence and agreement, on three year contract as research engineer with BTH; terms of service, assignment of patents; etc, with H Warren, Chief of Research Laboratory, and others. File.
B/38	1935-1936	Termination of BTH agreement. Decision of company to give up option on patents on plasma lamp: correspondence with C C Paterson, GEC Research Laboratories, who did not wish to take up further development on this research. File.

- B/39 DAVIES, L J Director of Research
Letter on D G's resignation from BTH, 9 November
1948; letter from DG, 18 May 1951, on suggested
mercury lamp as light source for interference
experiments, with drawing. 2 letters.
- B/40 6 December 1942 List of patents. Typewritten. 3ff.
- B/50 January 1945- Correspondence with the Foreign Office, Paul
Erzin, USSR Embassy, and others; enquiries about
his mother in Hungary, on naturalisation; German
war guilt etc. 17 items.
- B/51 1958 Curricula vitae. 2 items.
- B/52 1959-1969 Correspondence with Andre Gabor on family affairs,
house in Italy, requests for information. One
letter in Hungarian. 33 letters.
- B/53 January 1963 Plan of arrangement of files in specially made
wooden file cupboard.
- B/54 n.d. List of publications on holography etc.
- B/55 17 January 1975 Index of documents - Gabor Library. Compiled by
Gladys Hayes, CBS Laboratories. Xerox copies of
catalogue cards 1/1 to 15/46.

SECTION C

DIPLOMAS

- C/1 ADVANCED STUDIES INSTITUTE. Sponsored by the
Scientific Affairs Division of NATO.
Award of honorific title for scientific
contribution to conference on ultrasonics in
medical diagnosis. June, 1974. Milan, Italy.
- C/2 AMERICAN ACADEMY OF ARTS AND SCIENCES.
10 May 1972. Certificate of election as Foreign
Honorary Member. Letter of acknowledgement from
D G, 9 April 1973.
- C/3 CITY AND GUILDS OF LONDON INSTITUTE.
Diploma of Fellowship of the Institute, 1971.
- C/4 DEUTSCHE GESELLSCHAFT FUR PHOTOGRAPHIE, Cologne.
10 November 1971. Certificate for the award of
the Kulturpreis, 1971. In German.
- C/5 INSTITUTE OF PHYSICS.
Certificate of election as Fellow: 29 January
1943.



Dennis Gabor and his brothers George (on the right) and Andre. Item D4/2, D7/1, D9/4

- C/6,7,8 INSTITUTION OF ELECTRICAL ENGINEERS.
Certificate of Associate membership, 1 May 1946.
Certificate for award of premium for paper 'New possibilities in speech transmission and theory of communications, 14 August 1947. Certificate of Membership, 1 January 1949.
- C/9 INSTITUTION OF ELECTRONICS. Physics Section
Certificate of membership, 26 May 1945.
- C/10 INTERKAMERA. Centre for International Cooperation in the Realm of Audiovisual technique and art creation, Prague.
Diploma for the award of the Interkamera prize, 1971, 5 April 1971. With blue leather covered cylindrical container.
- C/11,12 LONDON UNIVERSITY.
Diploma for the degree of Doctor of Science (Engineering), 20 May 1964. Diploma for the honorary degree of Doctor of Laws, 1973.

SECTION D

PHOTOGRAPHS, POSTERS

Many of the photographs were added to the collection by Mr Andre Gabor, who annotated them with details of date, persons portrayed etc.

- Family photographs**
- D/1-30 Most of the photographs are postcards or postcard size, or snapshots.
- D/1,2 1922 Studio portraits of the parents of Dennis Gabor, Bertalan Gabor (1867-1942) and Adrienne Gabor (1879-) taken in Budapest.
- D/3/1-3 1904-08 Three photographs of the three Gabor brothers, Dennis, George (1901-35) and Andre (b.1903).
- D/4/1,2,3 Snapshot, about 1916; studio portrait of Dennis Gabor, aged about 17, taken in Budapest, and a smaller copy.
- D/5/1-3 1918 Two photographs of Dennis Gabor, in army uniform, one with his mother. Postcards.
- D/6/1,2 1920c, 1930c Two photographs D G with his mother, and one alone, at Opatija, in the 1930's. Postcards.
- D/7/1-3 George Gabor; photograph, at about 17 (2 copies): photograph, taken in London 1934. Postcards.
- D/8 Photograph of George Gabor's grave.
- D/9/1-4 Two photographs of Andre Gabor taken at Opatija about 1912, one with his mother, the other with

both parents and teddybear; two portrait studies, taken about 1917. Postcards.

D/10/1-4 Four family groups: pre-1914; in 1917; September 1922; at Opatija about 1930. Postcards.

D/11/1-4 Four photographs of the Gabor apartment, Budapest, 1915.

D/12/1,2 Mrs Adrienne Gabor posed in front of the family car, 20 March 1927; family group with the car, 1928.

D/13 House where D G lived in Rudolstadt, Germany in 1932-33. Postcard, written to Bertalan Gabor, 23 March 1933, in Hungarian.

D/14/1,2 1932, 1933 Two photographs of 'Peggie' D G's dog. See also D/22, f6

D/15 1938 Marjorie Gabor, wearing a fur coat, in front of Gilshaw Lodge, Rugby. Postcard. A smaller version is the first photograph in the album D/22.

D/16/1,2 1940 Two photographs of Dennis and Marjorie Gabor, one mounted, postcard size.

D/17 1958 D G with an unknown lady. Annotated in Hungarian.

D/18 D G and his wife on their way to a family wedding. In colour.

D/19/1-3 1970 Three colour photographs of D G and his wife, family and friends taken outside Simpsons, Strand, London on the day he received his CBE.

D/20/1 D G and his wife photographed at a Nobel prize ceremony, 10 December 1971. In colour, mounted.

D20/2 Colour photograph of D G and his wife and Mr and Mrs Andre Gabor at the Nobel prize ceremony on 10 December 1971.

D20/3 Thirteen colour photographs taken during the Nobel Festival.

D/21 The villa 'La Margioretta' Lido di Lavinio, about 30 miles south of Rome. Photographed soon after completion. In colour.

D/22/1 1936-38 Photograph album: with flowered cloth cover, 19 x 13cms, 25ff. 98 annotated snapshots, mostly 5.5 x 5.5cms. Wedding of D and M G, 8 August 1936: visits to Budapest, Vienna, Paris: family and

- friends in Hungary and Rugby: domestic interiors in Rugby: D G in his research laboratory at BTH, playing tennis, drying dishes etc.
- D/22/2 1936-38 Photograph album, 27 x 21 cms 20ff, 137 photographs; honeymoon photographs at Venice, etc; family and friends.
- D/22/3 1939 Photograph album, 35 x 25 cms. 5ff, 104 photographs: Gabor family on visit to England, etc.
- D/23/1-3 The Thomson Lecture, Royal Institution, 1963. Three photographs 16.5 x 20.5cms.
- D/24/1,2 Two photographs: McDonnell Douglas Electronics Company, Missouri; D G with President David C Arnold and others, on visit 26 October 1971: photograph of holographic portrait of D G 26.5 x 20.5cms.
- D/25/1-3 Svenskt Pressfoto, Stockholm. Three photographs of Nobel prize winners, with covering letter from the Nobel Foundation to Mrs Gabor, 2 December 1971.
- D/26/1 D G at reception for Nobel prize winners.
- D/26/2 Two coloured photographs of D G and Mrs Gabor, and with his brother Andre and Mrs A Gabor.
- D/27 Two photographs: D G at the opening of the Gabor Laboratorium for research in holography, Munich, on 24 May 1972; detail of the commemorative plaque.
- D/28 n.d Armed Forces Institute of Pathology. Group photograph.
- D/29/1-4 14 May 1975 Three photographs of D G receiving his honorary doctorate, Columbia University; commencement programme.
- D/30/1,2,3 n.d Two studio portraits of D G and snapshot taken by Electro Optical System Inc.
- D/31-41 Research apparatus
- D/31/1,2 1917 Two photographs: D G and his brother George with the epidiascope they built together; and of the epidiascope.
- D/32/1-3 1917 Three photographs of George Gabor with apparatus he built with D G during 1916-17; a large

- induction coil, its primary coil, and resistance and switchgear.
- D/33 1917 Four photographs: D G working on the induction coil he was building with his brother George: scientific apparatus they built together; large induction coil; switchgear.
- D/34/1-3 1917 Three photographs: spark of the induction coil; sections of the coil; X-ray taken with instrument made by D G and G G.
- D/35/1-3 Three photographs of the experiment set up by D G and Tibor Reiter to explore the radiation emitted by the tips of onion roots. Berlin, 1925. One photograph annotated in Hungarian by D G.
- D/36/1,2 Two photographs: D G with his cathode ray oscillograph. Berlin, 1927; detail of switchgear.
- D/37 Photograph album 31 x 23 cms. Record of D G's work at the research laboratory of Wernewerke, Siemenstadt, near Berlin, during 1928-30. 12 pp. 24 photographs: of D G's cadmium charged vapour tube; staff, apparatus etc.
- D/38/1,2 Two photographs: of a workshop and of apparatus; with pencil sketch on the reverse and copyright stamp of BTH.
- D/39 1947-48 Specimens of the first holograph experiments; Huygens-Fresnel originals: Newton Bohr originals etc. One packet.
- D/40 [1956] Photographs of frequency compression research, flat TV tube project, etc. 3 packets.
- D/41 Engineering drawings for flat TV tube, ion beam energy source and other projects. 30 items. Oversize.
- D/42 1971 Holography 1948-71. Poster for lecture at Imperial College, 22 February.
- D/43/1-5 Two coloured, and three black and white photographs taken on 13 April 1983 when the Mayor of Rugby unveiled a commemorative plaque outside D G's former home , Gilshaw Lodge.
- D/44 Two photographs of the commemorative plaques on the outside and in one of the corridors of the former BTH Research Laboratory where D G worked from 1934-48.

SECTION E

RESEARCH PAPERS AND MSS; BOOKS AND OTHER WRITINGS

EA/1/1-12

Miscellaneous typewritten MSS.

1. What price peace? n.d [annotated in pencil: written in 1936]
2. Brave new world. 30 April 1940. 3ff.
3. Causality. 18 January 1941. 3ff.
4. The revival of Utopia. 3 June 1941. 2ff.
5. Thoughts on invention. 22 March 1942. 5ff.
6. Letter to Olaf Stapledon on relationship between optimism and spiritual maturity. 1f.
7. Programme of publications. 27 April 1943. 1f.
8. De Quincey. The literature of knowledge and the literature of power. 10 July 1942. 1f.
9. A who is who? of literary characters. 21 July 1945. 1f.
10. Reflections on the atomic bomb, 9 August 1945.
11. The prospects of peace. 31 March 1946. 6ff.
12. The sources of human happiness. n.d. 1f.

EA/2-4

Plasma theory and other papers. One bundle

EA/2/1

March-May 1933

'Rudolstadt MSS. Elektrostatische Theorie des Plasmas, original manuscripts'. Folder. Contains the following:-

Theorie des Plasmas. Holograph MSS on Siemens and Halske memorandum sheets. Dated 26 April-10 May 1933. 79ff. In German.

Theorie des Plasma. 71 [1] pp. 6 drawings. Stencilled copy of typescript. In German.

EA/2/2

Dark discharges. Publication. Folder with the following items:

Proposition in NATURE. A new discharge phenomenon. Ga, [sic] 10 April 1935. 2ff. Typescript.

Patent application 12771/35... Improvements in or relating to electric discharge devices. Draft of complete specification. November 1935. 17ff. 2 drawings. Carbon typescript.

Plasma column lamp. Experimental model no.1, 17 July 1938. Pencil drawing.

EA/2/3

Electron gun development for short tube. Folder with blueprint: Pentode electron gun for magnetic tube for extra small spot, 22 October 1938:

drawing and blueprint: of Pentode electron gun for magnetic tube, large type, 26 October 1938.
3 items.

- EA/2/4 Electron lenses. Folder containing carbon copy of typescript MS: Stationary electron swarms in electromagnetic fields, 28 May 1944. 21ff. One drawing. [Another copy in ED/11/2].
- EA/2/5/1 1946-47 Infra red vision. Folder with papers on provisional application for patent on improvements in or relating to devices for infra red vision.
- EA/2/5/2 Memo on infra red vision. Folder: notes on smoke agents, vision through mists, photography of the far infra red etc. September 1939-June 1940.
- EA/2/6 1953-55 Ultrasonic vision. Folder containing correspondence, reports on research on an instrument for ultrasonic vision by Dr C N Smyth, to be sponsored by a Royal Society Paul Instrument Fund grant, for which D G was an assessor. Letter from D G to P M S Blackett, 10 August 1955.
- EA/2/7 Specimen of transparent plastic.
- EA/3/1 Plasma lamp final report. D Gabor 1936. The Plasma lamp and dark discharge amplifier. Copyright 1936 by Universag Technische A G, Glarus, Switzerland. 70ff. In black ring binder with letter from D G to the Chief of the Research Laboratory, [BTH] H Warren, Rugby, 3 July 1936, stating scope of report.
- EA/3/2 Ring binder with 21 engineering drawings of plasma lamp. With loose drawing and blueprint, 14 December 1940.
- EA/4/1 Scattering of electron beams in highly ionised gases (1934). Typescripts of paper, 8 August 1934: letter to Irving Langmuir, 13 August 1951; papers on plasma investigation, 1951, 1959. File.
- EA/4/2 1949-50 Electron optical systems with helical axis. Typescript and stencilled notes. File.
- EB Optical design etc
- EB/1 Report on theory of the relay screen. Typescript: v, 214pp. List of illustrations, (2ff), 8 pencil drawings, 42 blueprints. Introductory note, 18 September 1940 stating report contains a comprehensive theory of the thermo optical relay

screen, intended to serve as a guide in its experimental development.

- EB/2/1 Reflecting lens systems: Patent 544694/1941. Folder with carbon copy of typescript: 8. The Schwarzschild telescope, pp.195-207; 12. The expected performance of the long range instrument, pp.208-214, dated 7 January 1941. 8 blueprints 'Optical design'.
- EB/2/2 Electron motion in valves. Notes, 2 February 1944: 6ff. Two photographs of apparatus. Folder.
- EB/2/3 Advanced electromagnetism and electron dynamics. Calculations. MS notes on free oscillations of parallel wire grids, 3 and 4 March 1949, 2ff. Typescript: draft 1, General variational formulation of electron dynamical problems, 20 March 1949, 2ff. Two memoranda to Mrs Berz, 23 and 28 March 1949. Typescript MS, sections 20-28, on variational treatment of electron flow problems etc, pp.91-155, 25 March to 13 June 1949. Folder.
- EB/2/4 1951-54 Follower screen. Invention of a projection screen with an image which faces the viewer from all directions: assignment of invention of improved method of and apparatus for optical projection of pictures, and correspondence on agreement between D G, Imperial College and NRDC. MS notes, drawings. One file.
- EB/2/6 1949-63 Laboratory equipment. Correspondence and drawings on construction of a universal demountable vacuum chamber, steel cupboard for inflammable liquids, wood filing cabinet etc. One file.
- EC Electron microscope
- EC/1 1943-44 Electron optics. Lecture to Cambridge Physics Society, 4 March 1943, on Electron microscope: correspondence with and letters from L C Martin, Max Born, R Furth, R Peierls, S R Milner. One file.
- EC/2 1947-53, 1957 The Electron microscope. Enquiries about history of the electron microscope for lecture at Institute of Physics meeting, 1953; letters from L Marton, E Ruska, Max Knoll, V K Zworykin; text of lecture; contribution of translation of paper for Festschrift for Professor Mattia's 75th birthday; correspondence with Ruska, Knoll, Reinhold Rudenberger, Paul Hochhausler, Elektrotechnische Zeitschrift (publishers) etc. Carbon copy of typescript MS of translation of 1953 Lecture. One file. In German and English.

ED-EF Communication theory, electron optics, statistical physics etc

ED/1/1 Lecture and correspondence. Energy conversion. Four drawings RL 1012-1015, 11 November 1943. Folder.

ED/1/2 Stationary electron swarms in electromagnetic fields. Abstract and typescript (carbon copy) of paper, 28 May 1944. 21ff. 5 copies of drawings. Folder.

ED/1/3 Theory of communication: calculations 1944. MS notes, 31 July to 26 September 1944. Pages numbered 1-30, 41-50, 61-70, 81-90, 101-110. Folder.

ED/1/4 Theory of communication, original form of paper as submitted on 1944. Carbon copy of typescript of MS, 14 November 1944, 36pp. 9 drawings, 2 photographs. Folder.

ED/1/5 Illustrations to papers on communication theory and speech transmission. List of illustrations, 4 October 1946: 8 pencil drawings; tracings. One folder.

ED/2 [Communication theory] MS notebook, 32 cms. 3 October 1944-16 May 1945. Kinematical compression and expansion of signals; discussion of frequency compression and expansion etc. 94ff, sketches, calculations.

EE/1/1 Electromagnetic field, 1945. Typescript MS: Theory of electronics, 24 January- May 1945, 88pp; contribution to the discussion in the IEE Radio Section on March 2, 1949, to the paper by Mr E C Cherry on 'The analogies between the vibrations of elastic membranes and the elm [sic], field', 2pp. Folder.

EE/1/2 Sur la theorie des decharges electroniques. Papers on the theory of communication 9 May 1950 (in French); plan of a book on electromagnetism 23 September 1950: correspondence with Paul Dirac on theory of electrons. File.

EF/1 December 1946 to April 1947 Electron optics at high frequencies and at relativistic velocities. MS calculations: the action of electron groups, 3ff, 24 March 1947; phase focussing corrections, 3ff, 13 April 1947. Four drawings, typescript MS on electron optics etc. Folder.

- EF/2 1950 Introduction to statistical physics. Correspondence with Dr Keith Macdonald, Clarendon Laboratory; letter from R Kompfner on nature of quantum interaction etc; with Methuen and Co., and other publishers on publication of 'Introduction to statistical physics'; letter from Norbert Wiener on information theory; stencil copy of postgraduate course in electronics and communication, Summer term 1950.
- EF/3 Thermo magnetic machines 1950. Report on a proposal for a thermomagnetic motor by R L Stevens; explanatory letter from R L Stevens to Professor O Saunders, 26 July 1950; MS and typescript notes, July-August 1950. Folder.
- EF/4 Speedy/Hart. Amplifiers based on the selective reflection of electrons in crystals, 26 May 1951, 11ff, stencilled memorandum. Development of an electron gun system for crystal reflection amplifier, 1 August 1951, memorandum to R L T Tudor-Owen. Final report to ICI Research Fellowships Committee, on boundary phenomena in solids, 29 September 1955, 11ff. Folder.
- EF/5 Papers on communication 1953-54. Paper for Karl W Wagner's 70th birthday, on electromagnetic signals, 5 January 1953, stencil, 9pp. Wiener filters: typescript and stencilled notes, March 1954, 8ff. Script of talk on Italian radio 3rd programme on Cybernetics, 20 March 1954. Folder.
- EG-EK Stereoscopy
- EG/1 Stereoscopic calculations. Computation of stereoscopic screens, ray tracing in cylindrical lens systems, etc. Typescript notes. Cylindrical lens immersed in homogeneous medium, distortion of line raster by refraction, etc. MS notes, drawings, December 1945-August 1946. Folder.
- EG/2 Theory of stereoscopic projection screens 1947. MS notes and calculations 20 June-9 July 1947. Folder.
- EG/3 Stereoscopic calculations 1947-48. Theory of stereoscopic cinema; new discussions of the perspective in stereoscopic cinematography. MS, typescript notes. 2 October 1947-27 January 1948. Folder.
- EG/4 1932-45 Plastic film. Printed specifications and anticipations. Collection of English and US patents on improvement in projection screens and production of stereoscopic pictures, making of

plastic material etc. Memo from D G to C H Burgess, Patent Department, 28 May 1945. Folder.

EG/5 1940-44 Stereoscopic moving pictures. US Patents. Applications and specifications of patents; method and apparatus for the production of stereoscopic animated cartoons: Improvements in or relating to optical systems composed of lenticules, etc. Folder.

EG/6 US Stereoscopic patents. Three patents issued 13 June 1944 with covering letters from the Patent Agent, 26 January 1948. One packet.

EH 1945-48 Stereoscopic projection photographs. 9 photographs of apparatus, stamped BTH. Folder.

EK/1/1 Stereoscopic patents. Three provisional specifications for patents 541751, 541752, 541753: Improvements in or relating to projection screens for the production of pictures with stereoscopic effect 1940. Complete specification 750911, inventor D G, granted to NRDC; optical projection systems and apparatus. 20 June 1956. File.

EK/2 1954-61 Stereoscopic patents and memo (1953-54). Correspondence on applications for US patents for British patents 15053, 28367, 29368/53: correspondence with H W Grace of NRDC; draft suggestion, additional drawings; memorandum 'A new system of cinematograph presentation with three dimensional illusion', 6 September 1954, and letter from 20th Century Fox Film corporation, 29 August 1961. File.

EK/3 1947- Stereoscopic cinematography. Memoranda on three dimensional cinematography; Royal Society conversation programme, 24 June 1954; article for the NEW SCIENTIST: Is the 3D Cinema without glasses a possibility? Photographs of apparatus. File.

EK/4 1951, 1953-54 Stereoscopic projection including wide screen projection. Technical notes. Correspondence with suppliers of plastic screens; MS notes, description of stereoscopy with the wide angle 'follower screen'; theory of screen with three mirrors. File.

EK/5 September- Stereoscopic projection correspondence Boyer- November 1953 Goodman. Correspondence with Charles Boyer and Martin S Goodman, on 3D invention; references to Cinemascope; Cinerama; delay of Paramount Company to take up option on patents; revenue sharing agreements with NRDC, IC and D G.

EK/6	1953-54	Stereoscopic correspondence other than Boyer Goodman. Correspondence on the sale of patents on 3D movies 2351032, 33 and 34 with N T Volk, Patent Department, Hughes Aircraft Co. (comments on inventions by Sergei Fomenko) with Leven L Ryder, Paramount Pictures Corporation and Alfred N Goldsmith. File.
EL	Diffraction microscopy	
EL/1	1948-50	Correspondence with Sir Lawrence Bragg and others, regarding Royal Society paper on Microscopy by reconstructed wavefronts. Includes letters to J B Le Poole, R Peierls, C R Burch. File.
EL/2	1948-52	Microscopy by reconstructed wavefronts. Collection of papers. Letter to Sir Charles Darwin and note on optical synthesizer for electron diffraction microscope: memoranda on holograms: printed papers on diffraction microscopy by Sir L Bragg and others. File.
EL/3		Design of electrostatic diffraction microscope. Signed pencil engineering drawing: Diffraction microscope: electronic part: 20 May 194- [The paper has been trimmed and the signature and date partially removed].
EL/4		Associated Electrical Industries Ltd. Four research reports on the electron microscope. A28, A29: December 1948. A127, A143: February 1951.
EL/5		Diffraction microscopy: original photographs. Three folders: Electron microscope originals; mounted photographs of holograms. File.
EL/6		Paris conference on electron microscopy. Two papers: Electron optical systems with turned axis, 15 August 1950: Generalized schemes of diffraction microscopy, 21 August 1950. Stencilled.
EM	Interference microscopy	
EM/1	1949-53	Interference microscope. Printed notice of Royal Society meeting, 17 February 1949; provisional specification for patent 'Improvements in and relating to microscopes' 6 July 1951; report by W P Goss, and correspondence and memoranda on his research; letters on Paul Instrument Fund grant etc; notes 1953. File.
EM/2	1951-57	Interference microscopy. Designs and drawings. Report: A new interference microscope, n.d; details of experimental model, pencil drawings and blueprints, instructions on construction. File.

EM/3	1951-56	Correspondence with Sir Lawrence Bragg - re: Interference microscope. Correspondence and reports on research supported by the Paul Instrument Fund to Sir Lawrence (assessor). Photographs. File.
EM/4		Gabor-Goss interference microscope report. Report to the Royal Society Paul Instrument Fund Committee, with photographs and diagrams, n.d; notes on quadrature prism, 28 August 1958. File.
EM/5	1953-62	Interference microscopy patents. Correspondence on lapse of patents. File.
EM/6		D Gabor and W P Goss: Interference microscope with total wave front reconstruction. JOURNAL OF THE OPTICAL SOCIETY OF AMERICA vol.56, pp.849-858, July 1966. Reprint and photographs.
EM/7	1965-66	Wavefront reconstruction or holography. Correspondence with David Fishlock, editor NEW SCIENTIST and others on publication of article; inclusion in book on lasers, published by MacDonal. Letters from G W Stroke on quotations, Nigel Calder and others. File.
EM/8	1968-70	EI Sun: Advanced holography. Correspondence on contribution to book edited by Dr Hussein M A El Sun. File.
EM/9	1974	Heavy atom holography. Correspondence with L S Bartell and G W Stroke: memoranda and notes. File.
EN	Information theory	
EN/1	1951-52	Information retrieval. Notes on multi record selector; new methods for the rapid retrieving of information stored in files, memorandum to Jerry B Wiesner etc. File.
EN/2/1	1951	Light and information. Notes for paper for lecture at Edinburgh; correspondence with Sir Edmund Whittaker, L Rosenfeld, Jerome Rothstein and others. File.
EN/2/2	1955-56	Light and information. Advances in information theory. Notes on the visibility of atoms and of other scarcely visible objects; invitation to Congress on cybernetics at Namur; appointment to editorial board of journal 'INFORMATION AND CONTROL'. File.

EN/2/3	1960-61	Technical report and letter from Paul Bolgiano, University of Delaware; letter from Hieya Gamo, IBM. 3 items.
EN/3	1955-56	Optical transmission theory. Light and information: introductory talk on the Symposium on astronomical optics, Manchester 19 April 1955; paper on optical transmission July 1955; letter from Max Born, 19 August 1955. File.
EN/4	1965	Light and information. Lecture, 1965. Notes in English and German: information capacity of photographic plates: maximum utilisation of light information with photographic plates and the like. File.
EN/5		Learning filters. Copy of paper, 14 August 1956; drawings; four photographs of apparatus.
EN/6	1956	Theory of electron interference experiments. Draft notes on the information value of photons; notes on the Born approximation for time dependent disturbances etc; correspondence with L Marton. File.
EN/7	1957	Electron interferometry experiments. Manuscripts. Paper on requirements for interferometry by G D Kahl and F D Bennett with D G's comments; covering letter from E U Condon; letter from F D Bennett. 5 items.
EO	Mathematical theory of freedom	
EO/1	5 April 1951- 4 February 1955	Correspondence with A Gabor re theory of freedom. Discussion of joint research, drafts, mailing lists, typescript of paper read to the Royal Statistical Society, 16 December 1953. Personal and family news; some letters in Hungarian. File.
EO/2	28 March 1951-	Drafts 'Theory of freedom' 1951-1952. Notes, copies of drafts, comments. Copy of one letter in Hungarian from 'Olel' to Andre Gabor. File.
EO/3	29 July 1952- 10 February 1954	Final draft of 'Mathematical theory of freedom' 1953. Comments by Stanley James, drafts, notes on discussion at Royal Statistical Society meeting. File.
EO/4	2 February 1952-53 8 December 1953	Correspondence re: 'Theory of freedom'. Correspondence with Michael Polanyi; letters from Sir Charles Darwin, H L Mackenzie, Benoit Mandelbrot and others; postcard from L de Broglie; copy of drawing of 'Optical file', first sketch, 28 September 1951. File.

EO/5 19 January 1953- Correspondence with Andre Gabor. Discussion of
29 May 1962 A G's research and papers, with comments by D G,
on measurable aspect of freedom etc. Correspondence, in French, on publication of their joint paper, with L Couttignal, Institut Blaise Pascal. Personal and family news, some letters in Hungarian. File.

EO/6 An essay on the mathematical theory of freedom by Dennis Gabor and Andre Gabor... Printed for private circulation, 1954. Reprint from the Journal of the Royal Statistical Society vol.117, pp.31-72.

EP Thermo-nuclear power project and plasma theory

EP/1/1 1958-62 Ion source calculations. Memoranda to C J Powell, Miss Joyce Smith on improvements in ion tapping; application for grant to DSIR; notes by Colin Casemore on gas flow experiment. Folder.

EP/1/2 October 1960- Ion source - C J Powell. Correspondence, memo-
October 1963 randa, notes on ion source project and gas flow experiment: personal information. Folder.

EP/1/3 May-June 1963 Ion source. Notes, memorandum to Dr C J Powell and C Casemore. Folder.

EP/1/4 1963 Ion source theory. May 1963. Notes on ion source theory. Folder.

EP/2 1959-60 Memoranda on the project. Duplicated typescript. Drawings.

EP/3 1960-64 Thermo electric research project; thermionic generator, new theory. Notes, drawings, memoranda to John Anthony Nilson. File.

EP/4 1960-61 A new thermionic generator. Memorandum, 28 July 1960. Duplicated typescript. Drawings. Presscuttings. Folder.

EP/5 1961-65 Thermo-nuclear power. Eight NRDC agreements and assignments with Imperial College, D G and others.

EP/6 October 1962- Design of the ion beam source. Memoranda to
July 1963 A F Pearce and C J Powell on ion tapping, notes on stabilising rotating plasmas by wall losses. Folder.

EP/7 February- Duplicated memorandum on 'Studies towards a scheme
November 1963 of thermo-nuclear power production' 4 February 1963. Notes on Harris-type instabilities.

EP/8 1966 Materials development. Letter from E B Bas,

Institut fur technische Physik und der ETH and
reply: six photographs. In German.

ER Flat TV tube and miscellaneous

ER/1 1938-58 Television tube: collection of relevant patent specifications. Patent specification 481094. Improvements in or relating to cathode ray devices, 1938 and other papers. Folder.

ER/2 Television tube: instructions to P Stuart. Two memoranda: Plan for the development of the new colour television tube, 7 November 1953; Gaussian theory of the three colour gun, 24 June 1956.

ER/3 1953-65 TV tube: Agreements. Eight agreements and assignments between D G and others, Imperial College and the NRDC for research on cathode ray tubes, electron lenses etc. Two agreements include H A W Tothill and P R Stuart.

ER/4 1955-56 Dr P Kalman. Letter on his appointment as Research Assistant; memoranda on pre-stressing TV tube envelopes, etc. Folder.

ER/5 Television tube photographs and diagrams. A new picture tube: lecture before the Television Society 25 October 1956. Duplicated typescript and photographs.

ER/6 1962-66 Flat tube. IEE paper. Memoranda to Hugh A W Tothill and Miss Joyce Smith on deflection systems for flat cathode ray tube etc. Drawings. File.

ER/7 Progress in flat TV tubes. Typescript of paper 10th Congress of Electronics, Rome, 24 June 1963. Photographs. Folder.

ER/8 1964-71 Correspondence re new flat tube development. Grants from NRDC; letter from D G to P M S Blackett; letter from M Takahashi, Japan Broadcasting Corporation on flat tube in Japan. 5 items.

ER/9 1965-66 Coherent X-rays. Correspondence with N P Allen, National Physical Laboratory, on research of Dr Franks. Folder.

ER/10 1962-68 Digital frequency compression. Duplicated report to NRDC and others: Design of a high quality frequency compression system, 5 November 1962. US patent 3,412,214, 19 November 1968: 'Frequency division multiplex recorder'. File.

ER/11 Rank Precision Industries. Proposal for research

Discussion of 'Inventing the future' and other books. Letter from Lewis Mumford.

ET The Mature society

ET/1/1,2 1961-74 The Mature society and other books. Correspondence with Andre Gabor and others on 'Innovations'; 'The Mature society'; notes, statistics, personal information. Two letters from Olel, April 1970. Carbon typescript of talk to Personalist Group, 10 October 1964. Some letters in French and Hungarian. 2 files.

ET/2 1971-72 Correspondence with Secker and Warburg (T G Rosenthal and others) on the publication of 'The Mature society'. File.

ET/3 1972 Correspondence with Yujiro Hayashi of Kodansha Ltd on the Japanese translation; book reviews. File.

EU/1 Block of graph paper with notes on COR Working Party, 22 October 1973; Atlantic Institute, 29 October 1973; calculations: notes on transparent top conductor 22 March 1974 etc.

EU/2 Writing block with notes on 'How 3 dimensional is stereoscopy?' 19 January 1974. 2ff. On the second sheet is written 'Can I write any better?'

SECTION F

PATENTS

F/1 1933 Germany: lamp. Letter from German patent agent on patents DRP 295310 and 313085; manuscript notes. In German. Folder.

F/2 Patent renewals and fees. 'List of Dr Gabor's patents' with covering letter from the London Patent Department, 12 June 1937: also typescript list of patents in Hungarian.

F/3 1934-38 Patents for improvements in or relating to electric lamp for Belgium, Chile, Holland, Italy, Jugoslavia, Latvia, Spain, Sweden, Switzerland and Turkey, in the language of the country of origin. One packet.

F/4 1937-38 USA: Dark discharge application. Correspondence with the London Patent Office and Patent Agents in Washington about the US application no.77027. File.

F/5/1 A project for the promotion and study of very high

temperatures. 5ff. 15 October 1956. Carbon typescript. Three drawings, January 1957.

- F/5/2 'Provisional patent application. Arc discharge device D Gabor 4005/57, 5 February'. Improvements in or relating to arc discharge devices. Carbon typescript drawings. Letter from P M S Blackett 21 February 1957. File.
- F/6/1,2 1960-64 Thermionic generators. Correspondence with H W Grace, NRDC; John Prior, patent agent; negotiations for German and US patents; specifications, drawings. Patents include 21755/59, 38030/59, and 43662/59. 2 files.
- F/7 1965-66 Character recognition by holography. Correspondence with Patent Department, IBM. Draft application, drawings. File.
- F/8 Collection of printed patents. Packet.

SECTION G

IMPERIAL COLLEGE

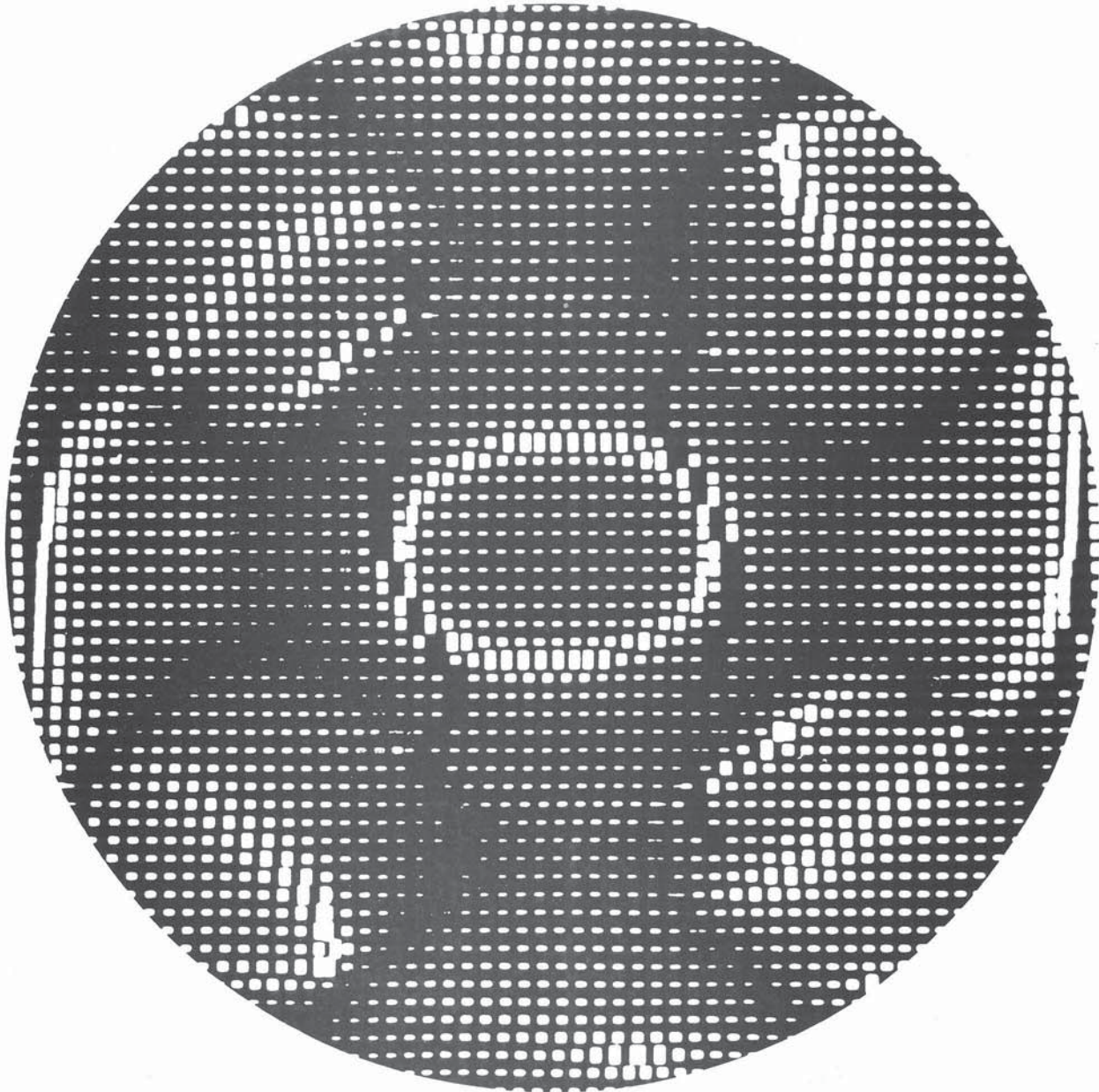
- GA/1-4 National Research Development Corporation. Correspondence on research grants between officers of Imperial College Administration Department and NRDC, Professor Gabor and others. Collection of files transferred from the Research contracts office papers in the Imperial College Records Office.
- GA/1 1953-54 Dr Gabor and Mr Fourcin. Patent application 30466/59 Ferromagnetic media. Receipts for invention, unforeseen expenditure. File.
- GA/2/1,2 1953-72 Television development research. Budgetting, quotations for apparatus, appointment of research assistants Peter G Kalman and H A W Tothill etc. 2 files. Files 365a, 365e, Vols. 1-3.
- GA/3 1960-67 Thermoelectric generation. Patent applications 21755/59 and 3803/59; agreements etc; funding of research; payment of research assistants, H A W Tothill and John A Nilson etc. File.
- GA/4 1960 Television bandwidth compression. Professor Gabor and Mr Hill. Patent application no.507/60. Correspondence on agreement with D G and P C J Hill; complete specification (duplicated typescript). File.
- GA/5 1955-67 Miscellaneous correspondence. Patent applications with NRDC etc.
- GB/1 1948-67 Appointment as Mullard Reader in electronics:

The NOBEL lecture

In the Chair: The Rector

Professor DENNIS GABOR, CBE, FRS

Emeritus Professor of Applied Electron Physics,
Senior Research Fellow in the Department of
Electrical Engineering, Fellow of Imperial College



HOLOGRAPHY 1948-71

The lecture will be a repeat of Professor Gabor's
Stockholm lecture when he received the 1971 Nobel
Prize for Physics

Tuesday 22 February 1972 at 17.45 hours
Lecture Theatre A, Mechanical Engineering,
Exhibition Road, SW7

Imperial College All members of the College
are invited to attend

curriculum vitae, application, letters from the University of London; appointments to Chair of Applied Electron Physics: award of Emeritus Professorship. File.

- GB/2 1970-79 Inaugural Lecture. Electronic inventions and their impact on civilisation, spoken version, 28 February 1959. Typescript. Photographs.
- GC/1 1949-73 Correspondence with Rectors of Imperial College. Memorandum on secondary education, 26 March 1957. File.
- GC/2 Correspondence on possible benefactions by D G to Imperial College: villa in Italy etc; copy of will.
- GC/3 1960-75 Correspondence inside Imperial College, outside the department [of Electrical Engineering.] Duplicated typescript of General Studies Lecture, 6 October, 1966 on 'The future of Western civilisation.' File.
- GD Electrical Engineering Department
- GD/1 1960-68 Correspondence with Willis Jackson, Lord Jackson of Burnley, Head of the Department 1961-67.
- GD/2/1-9 Correspondence with staff and research students
- GD/2/1 1963-64 ALI, Ahmad
Glassblower in D G's laboratory workshop. List of duties, testimonial. 7 items.
- GD/2/2 1961-65 BIRSS, Robert Raymond (1932-)
Testimonials etc. 8 items.
- GD/2/3 1962-68 COWAN, Jack David (1933-)
Includes duplicated typescript of lectures on 'The theory of information processing' given in the Department from January 1964. File.
- GD/2/4 1963-67 DICKSON, Donald James (1939-)
Research for DSIR studentship, paper for the Royal Society with A von Engel. 11 items.
- GD/2/5 1964-67 GOSS, Walter Percival (1927-)
United States Army research contract on development of an interference electron microscope; letters from Major George R Scithers, European Research Office; copy of final technical report, April 1967. File.
- GD/2/6 HILL, Peter Charles John (1934-)
Research report: Television bandwidth compression.

September 1958. Carbon typescript. Photographs. File includes duplicated copy of paper by D G: Television compression by 'Contour interpolation' 30 July 1956.

GD/2/7 1955-70 JULL, George Walter (1927-)
Memoranda: holography with incoherent light sources, 2 December 1966 etc. 7 items.

GD/2/8 1966-72 KOZMA, Adam
Memoranda on research on holography, letters and photographs of HRMR prototype holographic information processor. 5 items.

GD/2/9 1964-67 WILLIAMS, Mary Bearden (1936-)
Official papers as post doctoral research student. File.

GD/3 1951-55 Correspondence on supply of apparatus with Smethurst High Light Ltd and other firms. Letter from L Marton. Photograph of electron microscope, University of Toronto, 1938. File.

GD/4 1952-54 Correspondence with Ediswan Electric Company, A S Baxter, Physics Department, Cambridge University and others on beryllium copper multipliers. File.

GE Lecture notes

GE/1 Postgraduate course in electronics and communication. Duplicated typescripts of lecture notes.

GE/1/1,2,3 Winter term, 1948. Advanced electromagnetism and electron dynamics: Ten lectures. Drafts, typescript (158 pp.) printed syllabus; Physical aspects of advanced circuit theory and other papers. 3 files.

GE/1/4,5 Winter term, 1949-50. The electromagnetic field. 70pp. Introduction to internal electronics. 65pp.

GE/1/6 Autumn term, 1951. The electromagnetic field. 63, 2pp.

GE/1/7 Spring term 1950. General dynamics of mechanical, electric and electro-mechanical systems. 56pp. Manuscript notes, February-March 1952.

GE/1/8 Summer term, 1951. Advanced electron dynamics and optics. 66pp.

GE/1/9 1951: Advanced electron dynamics and optics. Reissued without alteration 1959. 67pp.

GE/2 Selected chapters in advanced physics. Lecture notes; 1960. 81pp. Application of the Hamiltonian method to field problems. Orthogonal functions 19 January 1960 4ff. File.

GE/3 Plasma dynamics course. September 1962. 66pp.

SECTION H

THE NOBEL PRIZE

H/1 1971-72 Stockholm December, 7-17, 1971. Correspondence: award of the Nobel prize; arrangements for the ceremonies in Stockholm and lecture; visits to institutions, etc. Two letters from Edward Heath; copy of congratulatory letter from Richard Nixon. File.

H/2/1-4 1971 Two programmes for Nobel prize ceremonies; translation of addresses; list of guests and table plan at banquet. 4 items.

H/2/5 Nobel prize laureate's briefcase containing invitations, special issue of stamps, etc. and Mrs Gabor's annotated copy of the official programme.

H/2/6 8 December 1971 George W Stroke. Letter of thanks for invitation to Nobel prize ceremonies, and for recognition of his contribution to research on holography.

H/3 1971 Nobel Lecture. Letter from G W Stroke with photograph; two photographs from Akurai Tinomura, and other miscellaneous items relating to publication of the lecture. File.

H/4 Letters of congratulation on Nobel Prize award; including letter from Hermann Engelberger and D G's reply, 30 November 1971 with account of life in past 37 years; letter with enclosures and photographs from Willi Marz on Kipprelais etc. Also 192 telegrams. 16 packets.

H/5 1973-74 NOBEL SYMPOSIUM Stockholm 1974. Programme, invitation, D G's suggestion for discussion. (Some xerox copies). D G was unable to attend owing to illness. 11 items.

H/6 1972-78 Correspondence with the Swedish Royal Academy of Sciences on nominations for Nobel prizes in chemistry and physics. D G proposed Professors R M Barrer and Abdus Salam. File.

SECTION K

SAMUEL ROSLINGTON MILNER (1875-1958)

S R Milner FRS retired as a Professor Emeritus of Sheffield University to live in Rugby near his son C J Milner, a colleague of D G.

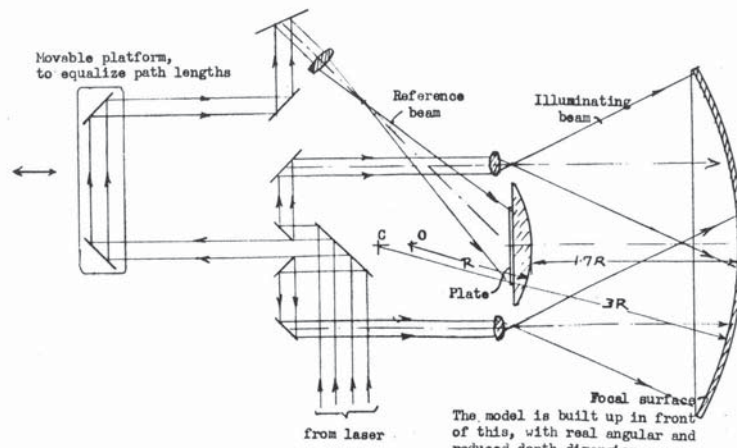
- K/1/1 Biographical Memoirs of Fellows of the Royal Society, vol.5, February 1959, pp.129-147. Obituary notice by T E Allibone and J R Clarke. Offprint.
- K/1/2 Studio photograph of S R Milner.
- K/2 1944, 1948-50 S R Milner: correspondence. Proposed publication of S R M's book: comments by D G, 17 May 1948 (12pp.); correspondence with T E Allibone and possible readers of the MS: letters from G C McVittie, Oliver de Beauregard. Reference by D G to writing lecture notes for new course at Imperial College on electromagnetism. File.
- K/3 1951-54 S R Milner: correspondence II. Publication of the book: letters from O de Beauregard, J R Clarke, Robert W Lawson, Sir Edmund Whittaker and others: S R M's comments on D G's research: Royal Society referee's dismissal of a paper by S R M. MS of Section VIIB of the book. File.
- K/4 1955-58 S R Milner: correspondence III. Letter from P A M Dirac, referee of the rejected R S paper; letters from T E Allibone, J R Clarke, L Rosenfeld; need to rewrite book using spinal notation; removal to Australia. File.
- K/5 1958-64 S R Milner's legacy: correspondence. Obituary notices of S R M: publication of book: correspondence with the editor, C W Kilmister, and T E Allibone, J R Clarke, D C Martin, C J Milner. File.
- K/6 1949-67 C J Milner: correspondence. Many detailed accounts of activities, research, ideas, family news (C J M went to work in Australia in 1952) discussion of careers, advice on staff. Letters from Mrs Winifred Milner, widow of S R M: family photographs. File.

SECTION L

CBS LABORATORIES. A division of Columbia Broadcasting System, Inc.

- LA/1-11 Correspondence with Peter Carl Goldmark (b. 1906-) P C Goldmark was a personal friend of Professor Gabor and head of the CBS

EXPERIMENTAL SET-UP FOR THE PRODUCTION OF HOLOGRAMS GIVING THE ILLUSION OF WIDE SPACES, SUCH AS LANDSCAPES ETC.



D. Gabor
July 27, 1967

Laboratories for 35 years, retiring in 1972 when he established his own company, Goldmark Communications.

- LA/1 1942-55 P C G's visit to England, 1943; invitations to D G to work in US; personal news; colour television tube, notes, memoranda; letter on D G's consultancy for CBS, 6 September 1951. File.
- LA/2 1956-57 D G's visit to US and illness; stereophonic recording; letter on D G's consultancy, 19 March 1957; drafts of patent application for improvements to magnetic recording devices. File.
- LA/3 1958 Visit to US; report on magnetic recording in anisotropic magnetic materials: memory store for computers. File.
- LA/4 1959 Appointment of D G as Special Staff Consultant; difficulties about publicity reports on television compression. File.
- LA/5 1960 Rights of NRDC and CBS to D G's inventions on plasma-type thermoelectric generators; optical transformer; offer of appointment by CBS to G T Wright; experiments on scanning heads; notes on CBS video recording system. File.
- LA/6 1961 Patent for optical demodulation apparatus, reports, including new VFR system with flying spot scanner. File.
- LA/6A 1962-63 Reports and memoranda; research on VFR; US patents for optical demodulation apparatus, magnetic recording medium, 1962; enquiries about staff, letters from D G on photography with lasers, 4 September 1962; visit to Hungary, 27 September 1962. File.
- LA/7 1962-63 Reports on ionoscope film printer for VFR etc; letter on photography with lasers, 1 September 1962; US patent for magnetic recording medium, 4 September 1962; letter on visit to Hungary, 27 September 1962; VFR techniques. File.
- LA/8 1964-65 System for reproducing television pictures from magnetic tape recorder etc; US patent for optical recording reproducing scanning system, 1965; personal news. File.
- LA/9 1966-67 Visits to US, to lecture on holography, etc proposed consultancy with IBM; arrangements for life consultancy with CBS; sonography project: memo on research on holography for CBS [March 1967].

LA/10	1968	Theory of holographic image correction: US patent for frequency division multiple recorder. File.
LA/11	1971-72	Copies of presscuttings on P C G's retirement from CBS and establishment of his company; legal opinion on D G's life consultancy contract with CBS; citation for award to P C G by National Academy of Science; draft agreement between CBS and Goldmark Co. for D G's services. File.
LB/1	1958-60	Correspondence with Benjamin B Bauer, Vice President, on research on magnetic recording devices, stereophonic heads etc. Three letters from V E Cosslett, Cavendish Laboratory; 13 photographs of magnetic tape pictures. File.
LB/2	January-March 1958	Stereoheads. 17 drawings of two magnetic microheads and of tools for producing them, with list March 1958. Folder.
LB/3	April 1959	Electrophotography. Notes on penetration of light; proposed arrangements for electrophotography symposium. Folder.
LB/4	1961-63	Correspondence with Benjamin B Bauer, John W Christensen (Associate Director of Research) J Kenneth More (Manager, Digital Systems) and others; includes US patent 3064087, magnetic recording devices, 13 November 1962; copies of engineers' data. File.
LB/5		Vectron technical report. CBS video memory: report and specification. 6 drawings. Carbon typescript, 17pp. With copy of covering letter to P C Goldmark, 18 January 1961.
LB/6	1964-68	US patent for bandwidth compression system; work on image sections; 8th amendment to original consultation agreement, with covering letter from P C Goldmark, 24 March 1965; speech compression scheme; correspondence with B J Bauer, Frank A Comerci (Manager, Magnetic Branch) William E Glenn (General Manager, Applied Research Department) two letters from Paul Rudolf on holograms, January 1968. Letter from Frank B Gorman referring to possible Nobel prize, 10 January 1968. File.
LB/7	1965	Speech compression scheme. Technical memorandum: A digitized, solid-state system of Doppler-shift, speech frequency compression and expansion. Covering letter from Arthur Kaiser, Branch Manager, Electronic Systems Research, 30 August 1965. File.
LB/8	1968	US Patent application: Improvements in communication and information storage. Correspondence

with patent agent, abstract of specification.
4 items.

- LB/9 1969 Permanent magnetic field: Frank J Cook. Memoranda on permanent magnetic focusing field; correspondence, drawings of equipotentials, calculations. File.
- LB/10 1972-75 Correspondence with Renville H McMann, Jr. President, CBS; John W Christensen, Leo Beiser, and others; patent for photoelectric imaging and apparatus; reports on solar power; three dimensional X-ray photographs etc; patent on ultrasonic cameras. File.

SECTION M

GENERAL CORRESPONDENCE

- MA/1 1971-72 ABEL AND IMRAY Chartered Patent Agents.
Patent case: opposition to Agfa Gevaert's patent application no 1204873 by RCA Corporation. Includes D G's declaration in favour of the defendants and copies of other statements, correspondence with A M Dowler etc. In English and German. File.
- MA/2 1963 ACZEL, Tamas ()
Article, Europa Jouoje, 13 November 1963, with covering letter by D G and reply from T A. In Hungarian. 3 items.
- MA/3 ADRIAN, Edgar Douglas, 1st Baron Adrian (1889-1977).
Letter from D G: enquiry about evidence for or against his hypothesis of unstable conduction in adjacent Levre fibres apropos of his research on aural communication.
- MA/4 January-February 1973 AGRICULTURAL RESEARCH COUNCIL.
Enquiry from G M P Myers on research of Dr R W Gerchberg on electron microscopy and D G's reply. 2 letters.
- MA/5 1952-53 ALEXANDER, Jerome ()
Proposed article on diffraction microscopy for 'RESEARCH'. 5 items.
- MA/6/1-3 1932-37 ALLIBONE, Thomas Edward (1903-)
Detailed accounts of appointments, research, personal life, includes consultancy with BTH and AEI; work on diffraction microscopy, ion beam source, TV tube; publication of S R Milner's papers: enquiries about staff, Peter Farago and others: organisation of industrial research in

England and correspondence with Nigel Calder.
Some in French. 3 files.

- MA/7 1971 ALTERNATIVE SOCIETY
Invitation to be Patron of the Society and reply
from D G. 2 letters.
- MA/8 AMERICAN HUNGARIAN STUDIES FOUNDATION
George Washington awards, dinner in honour of D G,
9 May 1973. Letters from the President, Peter C
Goldmark; programme with citation to D G.
7 items.
- MA/9 December 1971 AMERICAN PHYSICAL SOCIETY
Invitation from W W Havens Jr. to talk at
Distinguished Speaker session and reply from D G.
2 letters.
- MA/10 1955-56 ARDENNE, Manfred von. Baron (1907-)
Request to be on list for offprints of papers;
regrets that they have not met: quotations from
D G's papers in his book on electrophysics. In
German. 3 letters.
- MA/11 1974 ASH, Eric Albert (1928-)
Recommendation for award of University of London
DSc. 7 items.
- MA/12 1973 ASHBY, Eric Baron Ashby (1904-)
Letter from E A expressing enjoyment of 'The
Mature Society' and enquiry about computer
simulations dealing with exponentials, and D G's
reply. 2 letters.
- MA/13/1 1961-67 ASSOCIATED ELECTRICAL INDUSTRIES LTD (AEI)
Consultancy file. Correspondence with Ivor
Williams and others. Date of invention of
holography; consultancy arrangements; whereabouts
of demonstration equipment for holography;
xerography. File.
- MA/13/2 1966-67 Image processing correspondence with M E Haine and
R Dunsmuir. Memoranda, notes on optical
correction of electron micrographs, deconvolution
etc. Report by R Dunsmuir: Electron microscopy:
Gabor's proposal for correction of spherical
aberration in micrographs by optical wavefront
reconstruction, AEI research report no. L5324.
File.
See also MH/2, below
- MA/14 1965 ASSOCIATED REDIFFUSION
Recorded programme 'The Explorers' 11 January
1965. One letter.

MA/15	1958	THE ATHENAEUM Election to the club; letter from the Secretary and reply, circulars. 5 items.
MA/16	1973	ATLANTIC INSTITUTE FOR INTERNATIONAL AFFAIRS. Invitation to international conference in Tokyo. 5 items.
MA/17	1966, 1974	AUSBURN, Kenneth J Enquiry about research on scattering of electrons from graphite surfaces; need for publicity for D G's social engineering in Australia. 4 letters.
MB/1	3 December 1971	BADER, Ernest Letter thanking Gabor for birthday greetings etc with two photographs of birthday celebration.
MB/2	18 December 1964	BAGRIT, Sir Leon (1902-1979) Thanks for copy of NEW SCIENTIST ARTICLE. One letter.
MB/3	1949, May 1966	BARER, Robert (1916-) Request for picture of hologram; enquiry about progress in research on holography and reply. 3 letters.
MB/4	February-May 1967	BERG, Wolfgang F. ETH Zurich Creation of high-reflectance holographic mirrors. Three letters with replies.
MB/5	June, July 1974	BERNHARD, Prince of the Netherlands (1911-) Comment on 'The Mature Society' and reply.
MB/6	1952, 1974	BERTELE, Hans Invitation to D G to speak at IEE meeting: on his retirement, research, visits to London. In German. 2 letters.
MB/7	1956, 1967, 1970	BLACKETT, Patrick Maynard Stuart, Baron Blackett (1897-1974) D G's comments on Blackett's book on 'Atomic weapons and east west relations' 2ff; two short notes from P M S B.
MB/8	9 January 1968	BOERSCH, Hans Comments by D G on H B's paper on holography. In German. One letter.
MB/9	1952, 1969	BOHM, David Joseph (1917-) Comments on D G's letter on energy loss; relationships between holography and philosophy. 2 letters.
MB/10/1-4	1943-65	BORN, Max (1882-1970) Analogy between quantum mechanics and acoustics; discussion of appointment for Dr Furth and

reference to D G's position as foreigner at BTH; detailed correspondence on the publication of English translation of Born's Optick; arrangements with collaborators, discussion of translation of technical terms, M B's annoyance with project, D G's contribution, difficulties with publisher; arrangements for D G's Ritchie Lecture; comments on Norbert Wiener; D G's first return visit to Germany, 1956, and comments on Otto Hahn; comments on 'learning filter'; colour television and Newton's Optick's; M B's criticism of 'The scientists speculates', and 'Inventing the future'; H A Fatmi's research. 4 packets.

- MB/10/5 1949-52 Publication of English edition of Born's 'Optick'. Correspondence with P Rosband, H H Hopkins, W Franz, E Wolf, H Bremmer and others; agreement with the publishers, Butterworths. File.
- MB/11 June 1952 BOWDEN, Bertram Vivian. Baron Bowden (1910-) Enquiry about information handling capacity of human being and reply.
- MB/12 1971-72 BRADLEY, Daniel Joseph (1928-) Work with lasers; application for Imperial College Chair of Applied Optics. 14 items.
- MB/13 1961-66 BRAGG, Sir (William) Lawrence (1890-1971) Acknowledgements of papers received: developments in holography. Six letters with replies. See also ROYAL SOCIETY. Candidature of son S L Bragg, 1965.
- MB/14 March 1975 BRIGHT, William Letter on D G's illness with reply. 2 letters.
- MB/15 1955, 1959 BRILLOUIN, Leon Contribution to proposed yearbook on information theory to be published by the Academic Press. 9 letters.
- MB/16 1960 BRISTOL COUNCIL OF SOCIAL SERVICE Typescript of talk on 'Leisure in a prosperous society' 10 November 1960; letters from H D Dickinson, Sir John Wolfenden, Lord Chandos. 9 items.
- MB/17 1967 BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE Typescript of contribution to discussion 'Escape into space?' Leeds meeting, 5 September 1967. Letter from Lord Ritchie-Calder. 4 items.
- MB/18 1952, 1973-74 BRITISH BROADCASTING CORPORATION Three letters from D G; letter from Sir Charles Curran: oil crisis, national finances. 4 letters.

15th June 1948

Dear Professor Born,

I enclose, with my kindest regards, two of my latest publications. The long one is the continuation of my Theory of Communication in a practical direction, towards improved methods of telephony. But the short one is a new thing, and I have no doubt that it is my luckiest find yet. I thought of just a little over a year ago, and I disclosed the idea to Sir Lawrence Bragg, just on the day when I met you last, at Cambridge. Sir Lawrence would not believe it at first, but he encouraged me to try the experiment. It is not surprising that he would not believe it, as my primitive theory, - the same which is briefly explained in Nature, - was neither complete nor convincing. I have produced the correct theory only later, after the success of the first experiments. In the meantime I have also much perfected the experimental method, and I can now produce really pretty reconstructions from apparently hopelessly muddled diffraction patterns.

These results have made me happier than anything I have done in the last 20 years. The first electron microscope was made at the Berliner Technische Hochschule, about 17 years ago, by my successor Dr. Max Knoll out of the cathode ray oscillograph which I built for my doctor's thesis, and I could never forgive myself for not having done it myself. For years I have been searching for ways to get square with the electron microscope, by finding a way of improving its resolution beyond the theoretical limit set by the unavoidable imperfection of electron lenses. After several wrong starts I think I have found at last the real method. I think it is not too much to hope that it will be possible to reduce the resolution limit to 1 Angstrom, and directly resolve atomic lattices or the structure of complicated molecules.

I have followed with great pleasure the successful development of your theory of liquids. Your fundamental idea was quite new when I visited you in Edinburgh in November 1945, when you let me read the manuscript of your first, unpublished paper.

Hoping that you are in good health and in as creative a mood as ever, I am

yours very sincerely

MB/19	1946-50	BROGLIE, Louis Cesar-Victor-Maurice de (1875-1960) Research on electron microscope and two photographs; programmes of lectures at the Institut Henri Poincare, and invitations to D G to attend and give lecture; exchange of scientific papers. Poster of lectures. File.
MB/20	1952-75	BURCH, Cecil Reginald (1901-1983) D G's candidature for the Royal Society; account of C R B's stroke and comments on D G's illness. 8 letters.
MB/21	1965	BURGER, Peter (1936-) Unsuccessful application for NATO Postdoctoral Fellowship in Science for research with D G. 7 items.
MB/22	29 October 1954	BURGESS, Charles Family news etc. One letter.
MC/1/1-3	February-April 1965	CALIFORNIA UNIVERSITY, Los Angeles. Institute of Government and Public Affairs. Education Innovation Seminar, 19 April 1965. Paper: inventing education for the future, 16pp. Booklet. Also correspondence on arrangements for D G's visit, with Olaf Helmer (Rand Corporation), and Professor George B Dantzig. Letter from Arthur Koestler. 10 items.
MC/1/2		9 February 1967: Talk at the Institute: The dangers of automatism. 7pp. Typescript. Address to 8th Winter Convention on Aerospace and Electronic Systems Industry luncheon: The future of western civilisation and the responsibility of the technologists. 7pp. Typescript.
MC/1/3		Public lecture, 20 October 1973. Thoughts on the future. 3pp. Xerox copy of typescript.
MC/2		CAMBRIDGE UNIVERSITY. Physics Society. Plasma physics. Typescript of talk. 17pp.
MC/3	15 November 1943	CAMPBELL, Norman R GEC Wembley. Letter from D G on N R C's monograph 'Valve and circuit noise'. Carbon typescript.
MC/4	1963-64	CAWS, Peter James (1931-) Plans for a conference on problems of the future. 4 letters.
MC/5	13 May 1967	CAZES, Bernard Letter from D G on B C's essay: Finalites de l'economique.
MC/6/1	1965-74	CENTER FOR THE STUDY OF DEMOCRATIC INSTITUTIONS. Santa Barbara, California

arrangements for meetings, research, circulars:
Tokyo meeting 1973. 4 files.

MC/15	7 June 1949	COLLIE, Carl Howard and others, Clarendon Laboratory. Collective letter on the Betatron.
MC/16		COLUMBIA UNIVERSITY Citations for honorary degrees, at ceremony on 14 May 1975. Xerox copy.
MC/17	8 June 1966	CUZZER, Aldo Enquiry from D G about housing situation near Rome: life long plans to have retirement home in Italy.
MD/1	10 January 1972	DAINTON, Sir Frederick (1914-) Comments on D G's Fawley lecture. One letter.
MD/2	1944-52	DARWIN, Sir Charles Galton (1887-1962) The origin of formula for momentum of electron in an electromagnetic field; D G's comment on Darwin's article on cosmic rays etc. 11 items.
MD/3	June to November 1971	DEUTSCHE GESELLSCHAFT FUR PHOTOGRAPHIE, Cologne. Award of 1971 Kulturpreis: arrangements for visit, press conference, hologram portrait etc. Includes photograph of D G, hologram of the professor and his wife. In German. 12 items.
MD/4	1968-74	DOXIADIS, C A (Dinos) CADS article on Ecumenopoles; 1970 Delos symposium, etc. 7 items.
MD/5	1968, 1969	DUPOUY, Gaston Letter from D G and reply on holography. In French. Two letters.
MD/6	1966-67	DYSON, J Letter on scheme for seeing with sound with reply from D G.
ME/1	1965-68	ECONOMIC RESEARCH COUNCIL Lecture: The promise and the threat of the age of leisure, 3 March 1966, 7pp, duplicated typescript. Correspondence on arrangements, economic crisis etc with Anthony Vickers, Edward A Holloway (Hon. Sec.) and others. Certificate of membership of the ERC, 28 March 1966. File. See also ERNST, M L; MARLOWE FOUNDATION
ME/2	23 February 1961	EDMUNDS, Letter from D G on mechanical processing of photographs of tracks in the bubble chamber.
ME/3	1963	EHRENBERG, Werner Characteristics of polystyrene. 3 letters.

ME/4	October- December 1974	EINSTEIN, Peter Get well letter with personal news and acknowledgements from D G's secretary. Two letters.
ME/5	1962-1967	ENGELBERGER, Joseph F Consolidated Controls Corporation. Research on thermionic generator and thermionic power production: memorandum, drawings; technical proposals by C C Corp, on feasibility of the Gabor triode thermionic converter for use in a nuclear electric power plant, 20 February 1963; evaluation by Jet Propulsion Laboratory of the Gabor triode concept in a solar heated thermionic generator, 5 March 1963. Suggested meeting with Young Presidents' Organization. File, 2 reports.
ME/6	1960-72	ERNST, Morris Leopold (1888-1976) Notes on Israel; mental health; copies of column in 'The Villager' etc. File.
MF/1	April 1953	FELLGETT, Peter Enquiry about fluctuations in radiation due to wave interference and D G's reply. 2 letters.
MF/2	November 1963	FOYLES LECTURE AGENCY Letter from Christina Foyle and reply from D G refusing to speak to lecture societies. 2 letters.
MF/3	24 January 1966	FRAULO, J B Letter from D G about his health.
MF/4	11 May 1944	FRIEDLANDER, E Distressing family news, mother in Germany etc.
MF/5	4 January 1972	FUORTES, M G F Comments on 'Inventing the future'.
MG/1	1971-75	GALLOP, J W Milner's electromagnetic theory: article for 'Il Nuovo Cimento'; refusal by Royal Society etc. File.
MG/2	1972-74	GAL-OR, Benjamin Technion Israel (1933-) D G's foreword for book 'Modern developments in thermodynamics; the origin of irreversibility'; papers etc B G's proposal for establishment of Institute of Advanced Studies with D G as Chairman of Trustees. File.
MG/3	1971-72	GOLDEN PLATE AWARDS COMMITTEE Correspondence on banquet organised by the American Academy of Achievement at Salt Lake City: presscuttings etc. 9 items.

- MG/4 1957-58, 1968 GRIVET, Pierre
Work of the Laboratoire d'Electronique; D G's preface to Grivet and Blacquiere's book 'Bruit de fond'; comments on French situation (in English). In French. 8 items.
- MH/1 29 January 1971 HADDOW, Sir Alexander (1907-1976)
Appreciation of hearing D G at the Royal Society Club. One letter.
- MH/2 1943-68 HAINE, Michael Edward AEI Research Laboratory.
Long very detailed correspondence on research in diffraction microscopy; rebuilding of electron microscope originally made for Professor L C Martin, Imperial College in 1936; visit of K J Ausburn to Met. Vick; proposed appointment of G L Rogers; E A Ash's experiments, 24 March 1952; reference to experiments to obtain good holograms; death of Gerhard Liebmann: work for emigre Hungarians; appointments and research of Dr P Farago, Peter Zollmann, Peter Stuart and others; the flat TV tube; cable TV; brightness invariance principle in electron optics; changes in staffing and closing of research laboratories at AEI; new post for MEH; letter from Lord Blackett, 22 October 1963; developments in Universities.
- MH/3 19 January 1961 HALDANE, John Burdon Sanderson (1892-1964)
Evolution of man; comments on eugenics.
- MH/4 1949-71 HALSBURY, John Anthony Hardinge Giffard. 3rd Earl (1908-)
Utilisation of solar energy; thermoelectric generators; Royal Institution and Professor E N da C Andrade; protein synthesis; H's paper 'The semantics of determinism', definition of noise; D G's comments on H's papers on epistemology and communication theory; D G's inaugural lecture; observations on Kinepex; negative attitude of British industrial research; the flat TV tube; Wiener memorial lecture; Touchstone weekend, December 1964; biographical letter from D G, 5 October 1966. 2 files.
- MH/5 1974 HAMILTON, Iain Bertram (1920-)
Two letters from the biographer of Arthur Koestler and reply from D G with comments on scientific aspect of Koestler's writings. 3 letters.
- MH/6 15 October 1971 HAMLYN, [Edward] C
Need for technology by the mind. One letter.
- MH/7 1970-73 HANSZEN, Karl Joseph (1921-)
Progress of research on electron microscope: letter from H J Bojen enclosing K J H's curriculum

vitae, D G's replies with comments on K J H's inaugural dissertation; paper (in English) on holographic reconstruction with three sheets of photographs. In German. 9 items.

MH/8 1959-66 HARTLEY, Sir Harold (1878-1972)
D G's introduction to Morris Ernst; comments on the Duke of Edinburgh's study conference; invitation to give the George Thomson lecture, Society of Instrument Technology, 1963; the Robbins Report; suggestions for Prince Philip's tele lecture to radio engineers.

MH/9 June 1961 HEPBURN, Ronald William (1927-)
Comments on D G's 'The dimensions of consciousness' and reply. 2 items.

MH/10 1971 HILBERG, Wolfgang (1932-)
Enquiry from D G about possible mistaken calculations in paper by W H and reply. In German. 2 letters.

MH/11 1971-73 HOFFMANN, Malcolm A
Congratulations on Nobel Prize: Talk Club meetings at Harvard Club. 4 items.

MH/12 1973 HOLOCONCEPTS CORPORATION OF AMERICA
Letter from the Vice President Richard E Leavitt with reprint from 'Display World' on holographic display in Cartier's, and other presscuttings.

MH/13 12 May 1973 Letter from D G to R V Huddleston on means of identification for diamonds by laser or hologram.

MH/14 1967-72 HUNGARIAN ACADEMY OF SCIENCES
Visit to Hungary as guest of the Academy 1967; letters from Gyorgy Szigeti, arrangements for programme; election as member of the Academy, 1969; typescript of lecture in Hungarian on the future of industrial civilisation, 27 February 1969; visit 1972; yearbook, 1976. File.

MH/15 1965, 1971 HUXLEY, Sir Julian Sorell (1887-1975)
Feeding animals at the Zoo; congratulations on Nobel prize; T H Huxley's sale of his Royal Society medal to pay brother's debts. 2 letters.

MI/1 1972 ILLINOIS UNIVERSITY
Invitation and arrangements to give the Tykociner Memorial Lecture, 1 May 1972. Programme, typescript of lecture: 'The scientist in the new society', 9pp. Also correspondence on participation in the Grisson Chaffee Memorial Seminar at Purdue University on 2 May 1972. Typescript of contribution: 'Proper priorities for our civilisation'. File.

- MI/2 1943-67 INSTITUTE OF PHYSICS AND THE PHYSICAL SOCIETY
D G's comments as referee of papers, etc; reviews;
award of the 1967 Thomas Young medal and prize.
File.
- MI/3 1957-65 INSTITUTION OF ELECTRICAL ENGINEERS
A new cathode ray tube for monochrome and colour
television: joint paper with P R Stuart and P G
Kalman: drawings, correspondence; Professor
Beddoes' research, and memoranda by E C Cherry;
work on professional group committee.
- MI/4 1971-72 INTERKAMERA
Correspondence with the Director, Jan Jemelka, on
arrangements for D G's participation in Colloquium
on new methods of recording images etc. 7 items.
- MI/5 1975 4th INTERNATIONAL CONFERENCE ON THE UNITY OF THE
SCIENCES, New York, 27-30 November 1975.
Arrangements for attendance at the conference and
typescript copy of paper: Sketching the develop-
ment of mankind our outlook for the future.
Letters from Michael Young Warder, Secretary
General. Programme, menu of commemorative
banquet. File.
- MI/6 1973-74 8th INTERNATIONAL CONGRESS ON ELECTRON MICROSCOPY,
Canberra, 25-31 August 1974.
Correspondence with John L Farrant on arrangements
for D G's visit and his paper on pioneers in
electron microscopy: first draft, 15 March 1974.
One letter with reply from George Stroke. File.
- MI/7 1972-74 INTERNATIONAL FEDERATION OF INSTITUTES FOR
ADVANCED STUDY [established in 1972 under the
auspices of the Nobel and Rockefeller
Foundations].
Correspondence with Nils K Stahle chairman of the
organizing committee, and Jan Nilsson, General
Secretary, about meetings. Letters from D G to Sir
Alan Cottrell, on energy crisis and reply; letters
from Amory Lovins Friends of the Earth. File.
- MI/8 1975 INTERNATIONAL SYMPOSIUM IN COMMEMORATION OF THE
25th ANNIVERSARY OF THE FOUNDING OF THE MINISTRY
OF INTERNATIONAL TRADE AND INDUSTRY, Tokyo, Japan,
30, 31 October 1975.
Invitation and arrangements to speak at symposium.
Programme, xerox typescript of paper: Population,
flood and energy in the next half century. File.
- MI/9 1972-73 ISTITUTO RICERCHE APPLICATE DOCUMENTAZIONE E STUDI
(IRADES).
Papers of scientific committee meetings etc.
Letters from Eleonora Masini. File.

MJ/1	1972	JAEGER, Jean-Francois (1936-) Request for testimonial with c.v letter from D G to Dr Pierre Immer. 6 items.
MJ/2	1972	JAPAN BROADCASTING CORPORATION Invitation and arrangements for lectures etc. Xerox copies of scripts of television talks, 30 March, 1 April 1972. File.
MJ/3	16 August 1967	JAPAN ECONOMIC RESEARCH CENTER Request for D G to give public lecture at conference. One letter.
MJ/4	27 May 1968	Letter from D G to Bernard de Jouvenel on events in France.
MK/1	1958	KAISER AIRCRAFT AND ELECTRONICS LTD Reports on non organic phosphor bonding material, phosphor settling procedure; programme for visit of staff to Imperial College and details of items to be demonstrated, research in electron optics etc. 3 items.
MK/2	1957	KASTLER, A. University of Paris Candidature of Hanbury Brown for the Holweck Prize: letter from D G with reply: reference to P Farago. In French. 3 letters.
MK/3	1975	KERSTEN, Martin Sends German translation of paper given by D G at Genoa conference: arrangements for visit to London; D G's ill health etc. In English and German. 4 items. <u>See also</u> MN/7/2
MK/3A		KISS, Ulrich Louvain University Letter with reply from D G. In Hungarian. 2 letters.
MK/4	14 February 1968	KLUG, Aaron (1926-) Comments on D G's letter about paper in NATURE and work on extracting three dimensional information from electron microscope images. One letter.
MK/5	1974	KOCH, Robert Techniques for the finance of nuclear fuel cores. 3 letters.
MK/6	1946-73	KOESTLER, Arthur (1905-1983) Functions of the brain: possible models, diagrams etc; discussion of each other's books; typescript of A K's 'Manchester Lectures'; arrangements for meetings. 2 files.

ML/1	January 1975	LAITHWAITE, Eric Roberts (1921-) Letter about his Christmas lecture on gyroscopic experiments, with diagram, and acknowledgement from D G. 2 items.
ML/2	20 November 1973	LAMB, John (1922-) Research in his department at Glasgow University. One letter.
ML/3	16 July 1943	LANGDON DAVIES, John (1897-1971) Note of reply to D G's comments on a lecture etc.
ML/4	1972	LEITH, Emmett Norman (1927-) Copies of letters from A Kozma on holography and Gabor's research, comments by D G and E N L; comments on discourse, and priority of research in holography; advantages of the laser in holography. Report of paper on D G from the Proc. IEEE, June 1972.
ML/5	11 April 1967	LEONARD, Carl University of Michigan Memorandum to D G and Professor G W Stroke: computer calculations and autocorrelation experiment. Folder.
ML/6	1974	LEWIS, W Bennett Lethal doses of plutonium; manufacture of atomic bombs. 4 letters.
ML/7	1962	LIEBOWITZ, Benjamin (1890-) Sends copies of papers: note on a proposed experiment to test the photon concept versus the post concentration hypothesis. 4 items.
ML/8		LIGHTHILL, Sir James (1924-) Congratulations on the award of the Cristoforo Colombo prize. 2 letters.
ML/9	1971-75	LINDSAY, Peter A Discussion of his paper on new formation of noise in collision free systems; testimonial. 10 items.
ML/10	1966, 1971	LIPSON, Henry Solomon (1910-) Impossibility of coherent X-rays with large intensities; background material for Nobel lecture. 6 items.
MM/1	1949-50	MACDONALD, D Keith C Enquiry about physical realisability of filter functions; lecture on 'noise' and invitation to French symposium. 7 letters.
MM/2	1950, 1952	MacKAY, Donald MacCrimmon (1922-) Shannon's communication theory, etc; D G's comments on verbatim copy of his Macy 'lecture'; summary of work since 1967. 3 letters.

MM/3	November 1966	McLAUGHLIN, C Harry Letter on holography as a model of memory with reply from D G. 2 letters.
MM/4	1964-67	MANKIND 2000 Correspondence on meetings with the President, Kenneth Lee, and others; from Sir Peter Scott on display at Slimbridge Wildfowl Trust; from Hugh Trevor-Roper on D G's paper at Oslo, 1967. File.
MM/5	1965-67	MARLOWE FOUNDATION Correspondence with Anthony Vickers on dinner for Robert Theobald; steering committee for seminar on cybernetics. 7 items.
MM/6	1971-72	MARTON, Ladislaus Laszlo (1901-) Congratulations on Nobel prize; panel discussion at IEEE convention. 4 items.
MM/7	1964, 1966	MEDAWAR, Sir Peter (Brian) (1915-) Signature for a Royal Society certificate; social arrangements. 3 letters.
MM/8	1974	MEDICAL AND SCIENTIFIC COMMITTEE FOR SOVIET JEWRY. Correspondence on Dr Polsky, a Moscow Jewish physicist. 4 letters.
MM/9	1953	MENZIES, A C. Hilger and Watts. Problem of communication theory: discussion of D G's suggestions. 3 letters.
MM/10	1971-74	MEYER-FRANCK, Gisela and Herbert. Typescript of paper 'Der Bevollmachtigte Mensch'; paper on the Club of Rome: possible film on club; xerox copy of possible film script; arrangements for visit to Germany; Watergate; letters from Andre Gabor. In German and English. File.
MM/11	1963-64	MINERVA Possible publication of article 'Oedipus, Macbeth and Marx'; typescript, 24 July 1961, 9pp. (Originally intended for ENCOUNTER). 4 letters.
MM/12/1	1952-54	MINISTRY OF SUPPLY Appointment as Consultant to the Guided Weapons Department; First and second reports on radar problems'. File.
MM/12/2	January-May 1952	Radar theory: notes and calculations. Folder.
MM/13	1964	MISAWA, S. Sheffield University Comments on D G's joint paper with E A Ash and another on the Langmuir Paradox etc. 6 letters.

MM/14	1973	MITTERAUER, Johannes Publication of letter to NATURE on dynamic field emission on mercury film cathode. Photographs. Letter from Professor D J Bradley. In German and English.
MM/15	1971	MORLEY, L Appreciation of D G's interest in his book; congratulations on Nobel prize. 2 letters.
MM/16	1967	MOTT, Sir Neville (Francis) (1905-) Signature of certificate for Fellowship of the Royal Society for V E Cosslett. 2 letters.
MM/17	19 July 1946	MOUNTBATTEN OF BURMA, 1st Earl (1909-1979) Note of acknowledgement for copy of book on the electron microscope.
MM/18	1961, 1974-75	MULVEY, Thomas. AEI, Aston University Comments on T M's history of the electron microscope: meeting at Canberra and gifts from Australians for D G. 7 letters.
MM/19	3 November 1975	MUSEUM OF HOLOGRAPHY Thanks for gift and request for foreword to catalogue for exhibition. One letter.
MN/1	February 1972	NAGY, F L Testimonial for post at University of Oxford. 2 items.
MN/2	4 December 1972	NATIONAL AERONAUTICS AND SPACE ADMINISTRATION George C Marshall Space Flight Center. A three dimensional real time holographic motion picture camera: notes, 2pp. Five photographs and covering letter from Robert L Kurtz, Head of Holographic Research.
MN/3	1972	NATIONAL SCIENCE FOUNDATION US - Japan science cooperation seminar on pattern information processing in ultrasonic imaging, 8-13 January 1973, University of Hawaii. Paper by D G: A project of ultra-sonic tomography; three letters; programme. 6 items.
MN/4	1974	NEDERLANDSE VERENIGING VOOR MANAGEMENT (NIVE). Arrangements for attendance at the 1974 annual meeting at The Hague. Programme. Typescript: Thoughts to the 'transition to a mature society', 15 April 1974, 5pp. File.
MN/5		NELSON, Clifford V Copy of joint paper with D G: Determination of the resultant dipole of the heart from measurements on the body surface; with covering letter of further calculations, 7 February 1969, 4ff. 2 items.

MN/6	1959-71	THE NEW SCIENTIST Article: The next ten years in engineering and technology; two letters with relevant information from Professors Hugh Ford and H B Squire; notes for a profile (4pp.) and covering letter on his Jewish origin; eminent Hungarians, etc. Typescript of a letter: Better use of scientific man power, 2pp. File.
MN/7/1	1971	NORTH ATLANTIC TREATY ORGANISATION (NATO). Seminar on optical and acoustical holography, Milan, 24 May - 4 June 1971; arrangements, copy of paper. General theory of holography I and II; notes on three dimensional information on holography. File.
MN/7/2	1973-75	CONFERENCE ON THE TECHNOLOGY OF EFFICIENT ENERGY UTILIZATION, Les Arcs, Savoy, 8-12 October 1973. Correspondence with Eugene G Kovach and Professors M Kersten, N Kurti, E Pestel, H Tabor and H Welker. Xerox copy of D G's Keynote address. File.
MN/8	11 April 1972	NOVA UNIVERSITY, Florida Letter of appointment as Adjunct Professor.
MN/9	1966-67	IL NUOVO CIMENTO Invitation to join Editorial Board; circulars on policy, etc. In English and Italian. File.
MN/10	June 1974	NUCLEAR MEDICINE SOCIETY (Gesellschaft fur Nuklearmedizin). Xerox copy of paper for 12th International annual meeting at Munich, 11-14 September 1974: Ein Vorschlag zur Glattung von Szintillogram, 7pp.
MO/1	November 1956	OBERLIN, Agnes Suggestions for reunion, possibly at congress in Montreal. Reply from D G with personal news. 2 letters.
MO/2	1972-73	OMEGA. The International Journal of Management Science Two letters from the editor, Professor Samuel Eilon, and xerox copy of contribution by D G; Technology and society in the last quarter of the twentieth century. 3 items.
MO/3	1943-50	OROVAN, Egon (1902-) Includes one letter from L J Davies to E O about visit to BTH. In Hungarian and English 12 letters.
MO/4	8 October 1975	OSTROVSKY, Y I Brief note with gift of book.

- MO/5 1972 OXFORDSHIRE. Lady Spencer Churchill College of Education.
Lecture: Thoughts on the future, 24 January 1973.
Letters from the Principal, Lady Linstead, and Hugh Trevor-Roper. 5 items.
- MP/1 1963-1965 PALOCZI-HORVATH, George
Letters from D G on G P-H's book, 'The facts rebel'; three letters to Jerry Wiesner. 7 letters.
- MP/2 1945-50 PEIERLS, Sir Rudolf (Ernst) (1907-)
Research on holography: D G's appointment at Imperial College. 11 letters.
- MP/3 1972 PENNSYLVANIA UNIVERSITY. Annenberg School of Communications.
Keynote address: Social control through communications? 23 March 1972, at International Symposium on Communications; correspondence with George Gerbner. 8 items.
- MP/4 December 1946 PERCIVAL, W S
Letter on D G's paper on theory of communication and reply.
- MP/5 1945 PIAGGIO, Henry Thomas Herbert (1884-1967)
D G's claim to have found an acoustic relation analogous to Heisenberg's uncertainty relation; questions, soundness of argument in D G's 'Theory of communication'. 2 letters.
- MP/6 January 1965 PINCHER, (Henry) Chapman (1914-) Daily Express
Invitation to attend J Walter Thompson Advertising Company seminar and D G's letter of refusal. 2 letters.
- MP/7 1953-64 POLANYI, Michael (1891-1976)
Comments on M P's paper on pure and applied science; M P's contribution to 'The scientist speculates'; joint discussion with E Wigner on Haldane's paper on natural selection. D G's comments on M P's paper on 'Tacit knowing'; advice on funding for project of Professor A Tustin. File.
- MP/8 1964-72 POPPER, Sir Karl (Raimund) (1902-)
Arrangements for meeting; D G's comments on K P's papers on the arrow of time; congratulations on Nobel prize. 13 items.
- MP/9 1957, 1964 PRIESTLEY, John Boynton (1894-1984)
Three letters to J B P from D G; on the atom bomb; progress in Russia; invitation to dinner and reply from J B P. 4 letters.

MR/1	May 1963	RAND CORPORATION Letter from Olaf Helmer on project for prediction of future trends in science and technology with reply from D G. 2 letters.
MR/2	1963, 1966	REITER, Tibor Testosterone implantation: correspondence on letter to NATURE; analysis by infrared spectrography. 5 items.
MR/3	1968, 1969	RENOLD, Hans Replies to letters from D G on trade unions, grass roots plan. 2 letters.
MR/4/1	1957	ROGERS, Gordon Leonard Advice about career; testimonials: references of paper on holography. File.
MR/4/2	1971	ROGERS, Gordon Leonard and others Information for D G's lecture to Royal Society from G L Rogers, J N Butters, J D Redman: deblurring by Fourier filterings etc. 7 letters.
MR/5	1973-74	ROYAL AERONAUTICAL SOCIETY Spring convention, 15-16 May 1974. Talk: Aviation during the fuel crisis and after. Typescripts, correspondence. File.
MR/6	1968-73	ROYAL INSTITUTION Lecture, 7 February 1969: The hologram. Correspondence etc. Laser symposium, 22 March 1973. File.
MR/7/1-7	ROYAL SOCIETY	
MR/7/1	1958-74	Nominations for Fellowship, notices etc. File.
MR/7/2	1961-67	Paul Instrument Fund. Applications, assessors, reports on research of D W Turner, P B Hirsch. File.
MR/7/3	1963	Committee on Technology. Invitation to be member, circulars, memoranda. File.
MR/7/4	1967	The next 30 years. Meeting, 12 May 1967. Letter and notes from Mr A Gabor, draft of paper 'Industry and society' by D G. 5 items.
MR/7/5	1966-67	Joint lecture, 1 February 1968 with G W Stroke; Theory of deep holograms. Correspondence with G W S, poster etc. 9 items.
MR/7/6	March 1969	Report on visit to Hungary; xerox, 5 pp. Reference to Professors I Rusznyak, G Szigeti and others.

visit to London and lecture in Physics Department, Imperial College. 11 letters.

MS/9 1974 SIBTHORP, M M Miss. David Davies Memorial Institute of International Studies. Comments on nuclear energy and D G's reply. 2 letters.

MS/10 1972-73 SIEGHART, Paul (1927-) Arrangements for meeting of the Science and Society Council. 5 items.

MS/11 1961 SNOW, Charles Percy, Baron Snow (Life peer) (1905-1980). Two brief notes and letter from D G; comments on proposals of Walter C Morgan. 3 letters.

MS/12 1963 SOCIETY OF INSTRUMENT TECHNOLOGY The Thomson Lecture, 24 October 1963: Technology, life and leisure, given at the Royal Institution. Typescript etc. 5 items.

MS/13 1971-72 SOUTHAMPTON UNIVERSITY 18th Fawley Lecture, 16 November 1972. Arrangements etc. Correspondence with Professor L C B Gower, G D Sims and others. File.

MS/14 5 May 1943 STAPLEDON, William Olaf (1886-1950) Disadvantages of maturing late; his training and background as a writer. One letter.

MS/15 1971-73 STROKE, George Wilhelm (1924-) Information for Nobel prize lecture; general solution for deblurring of images: the 'wobbling' method; President's Science Medal for Peter Goldmark; conference on ultrasonic imaging; NSF grant; cervical holography, etc. File.

MS/16 1972 STRONG, Donald S Holography and art history. Letter and reply from D G; xerox copy of article in FORTUNE, September 1971. 3 items.

MS/17 1953, 1961 SUNDAY TIMES Article: Living with the hydrogen bomb, 5 March 1961. Correspondence with E H S Burhop, C A R Crosland, Andre Gabor, P M S Blackett, and others; duplicated copies of P M S B's papers on operational research, nuclear war, and contemporary defence. File.

MS/18 9 March 1973 SZEKELY, D L. Jerusalem, Israel. Anatomical brain research. One letter.

MS/19 1948, 1967 SZIGETI, Gyorgy and RUSZNYAN, Istram In Hungarian. 3 letters.

MS/20	5 June 1961	SZILAGY, Bela Hungarian Peoples' Republic. Letter. In Hungarian.
MT/1		TEXTIL WIRTSCHAFT Meeting at Heidelberg 6, 7 June 1974. Travelling arrangements, programme. In German. File.
MT/2	20 November 1971	THORPE, William Homan (1902-) Invitation to join advisory council of the Anti-Concorde project. One letter.
MT/3	1972-73	TORONTO UNIVERSITY Introductory talk to the centenary year lecture series: 17 January 1973; The next hundred years. Typescript, 10pp. Correspondence with Arthur Porter and others. File.
MT/4	1973	TRAIN, Russell E. Executive Office of the President. Council on Environmental Quality. Assessment of priorities in technology. File.
MT/5	1966	TUCKER, David Gordon (1914-) Assessment of MSc thesis by R A K Said. 5 letters.
MT/6	18 June 1947	TUMARKIN, Alexander Various aspects of the mechanics of hearing. One letter.
MV/1	1972	VOLKSWAGENWERK Use of holography in research; ten photographs, with list, for use at meeting of German Optical Society at Bad Hersfeld. In German. 3 letters.
MW/1	November 1950	WAGNER, Karl Willy Invitation from D G to Symposium on information theory, with account of his research in past twenty years; reply from K W W with details of post war work in German. 2 letters.
MW/2	1974-75	WAIDELICH, Wilhelm Invitation to congress on Nuclear Medicine at Munich; regrets at D G's ill health. In German and English. 4 letters.
MW/3	1943-51	WARREN, Sir (Henry William) Hugh (1891-1961) Explanation of research failure, on cathode ray tube etc; hopelessness of gas discharge lamp with good efficiency; congratulations on knighthood. Includes letter from E H Ball. 8 letters.
MW/4	28 April 1975	WATERHOUSE, Richard V Comments on possible mathematical error in a paper by D G. One letter.

MW/5	1973	WEINBERG, Alvin Martin (1915-) Phytoplankton as source of phosphorus. 3 items.
MW/6	1972-73	WEIZMANN INSTITUTE OF SCIENCE 17th Chaim Weizmann Memorial Lecture, 8 March 1973. Invitation to give lecture, arrangements for travel, programme. Letters from Samuel N Bar-Zakay and others. File.
MW/7	1943, 1950	WHITTAKER, Sir Edmund Taylor (1873-1956) Postcard about lecture on electron optics. Letter from D G with manuscript of lecture on communication theory and reply. 3 items.
MW/8	1950-1965	WHYTE, Lancelot Law Direct measurement of electron velocities: research on fundamental particles and grant for D L Richards; Touchstone lecture; bibliography of L L W's books. Includes letters from E C Bullard, A M Tyndall. File.
MW/9	1973-74	WILSON, Carroll L (1910-) The energy crisis; Steady State Society etc. File.
MW/10	January 1956	WILSON, W Proctor Two letters with reply from D G. Laguerre functions, etc. Death of E S C Megaw. 3 letters.
MW/11	September 1966	WOLF, Emil Differential equation for the propagation of light. Letter with reply from D G. 2 letters.
MW/12	1967-71	WORLD FUTURE SOCIETY Invitation to serve on committee, speak at meeting etc. 11 items.
MW/13	1971-72	WORLD FUTURE RESEARCH CONFERENCE Invitation to be member of Continuing Committee. Correspondence with Arne Sorensen, Secretary General. 7 items.
MY/1	June 1962	YOUNG, John Zachary (1907-) Covering letter for reprint on evolution of the nervous system and D G's reply. 3 items.
MY/2	1972-73	YOUNG PRESIDENTS' ORGANISATION Fourth International University aboard Queen Elizabeth II. 'Odyssey of Knowledge', May 14-21 1973. Invitation to join cruise, arrangements for lecture etc.

SECTION N

PUBLICATIONS, REVIEWS ETC

List of publications: and collection of printed articles and reviews etc; including Dutch, Japanese and Spanish translations of 'The Mature Society'. 1928-1974. 3 boxes.

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TAPES, SLIDES

P/1		Interview between Professor Gabor and Rex Keating. Tape and cassette.
P/2	1964	Interview with Budapest Radio. Tape and cassette.
P/3	1966	Experimental demonstration tape for compression and expansion of speech.
P/4		Collection of slides for lectures.
P/5	1971	Slides for the Nobel prize lecture. 38 items.
P/6	9 November 1971	Recording of interview on programme, Hierzulande - Neuzutage, WDR Television, after award of the Nobel prize and DGP Kulturpreis. In German, cassette.
P/7	22 February 1972	Tape recording of the lecture on holography given at Imperial College. Tape and cassette.

SECTION R

MISCELLANEOUS

R/1	1947	'First stereoscopic colour film. Underexposed'.
R/2	1948	Helical discs for optical depth variation.
R/3		Slide rule in leather case.
R/4	1966	Slide rule manufactured by Keuffil and Esser Company, in plastic case.
R/5	1971	Nobel Laureates 1971. Six replicas of medals in leatherette covered case.

There are also three models or 'poster' type displays of research projects

R/6	[1956]	Model of the Gabor-NRDC flat television tube.
R/7	[1956]	Gabor-NRDC flat television tube development. Framed board, 2ft x 4ft x 4ins.

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Thermionic converter development, 1959-66.
D Gabor, H A Fatmi, J Nilson, M A Atta,
M J Albert, J Greensmith.

Framed wooden board, 2ft x 4ft x 4ins.

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Includes model of inert gas filled thermionic triode converter, 1961; collectors for inert gas thermionic converters; components of a diode with quarter inch cathode, 1965, etc.

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MARTIN, Louis Claude (1891-1981)	EC/1, MH/2
MARTON, Ladislaus Laszlo (1901-)	EC/2, EN/6, GD/3, MM/6
MARZ, Willi	H/4
Mathematical theory of freedom	EO
'The Mature Society'	ET, MA/12
MEDAWAR, Sir Peter (Brian) (1915-)	MM/7
Medical and Scientific Committee for Soviet Jewry	MM/8

MEGAW, E S C	MW/10
MENUHIN, Yehudi (1916-)	ES/9
MENZIES, A C	MM/9
'Merkur'	ES/3
MESAROVIC, Mihajito	MC/4
Metropolitan Vickers Ltd	MH/2
MEYER-FRANCK, Gisela and Herbert	MM/10
Microscopy by reconstructed wave fronts	EL/2, EM/6, EM/7
MILNER, Christopher J	K/5, K/6
MILNER, Samuel Roslington (1875-1958)	EC/1, K, MA/6, MG/1
'Minerva'	MM/11
Ministry of Supply	MM/12
MISAWA, S	MM/13
MITTERAUER, Johannes	MM/14
MORAS, Joachim	ES/3
MORE, J Kenneth	LB/4
MORGAN, Walter C	MS/11
MORLEY, L	MM/15
MOTT, Sir Neville (Francis) (1905-)	MM/16
MOUNTBATTEN OF BURMA, Earl (1909-1979)	MM/17
MULVEY, Thomas	MM/18
Munich: Gabor Laboratorium	D/27
MUMFORD, Lewis (1895-)	ES/11
MURRELLS, F S R	MC/11
Museum of Holography	MM/19
MYERS, Geoffrey Morris Price (1927-)	MA/4
NAGY, F L	MN/1
National Academy of Science, USA	LA/11

National Physical Laboratory	ER/9
National Research Development Corporation	EB/2/4, EK/1,2, ER/3, F/6, GA/5
National Science Foundation , USA	MN/3, MS/15
'Nature'	MK/4, MM/14, MR/2
Nederlandse Vereniging voor Management	MN/4
NELSON, Clifford V	MN/5
'New Scientist'	EK/3, EM/7, MN/6
NILSON, John Anthony (1936-)	GA/3, R/8
NILSSON, Jan	MI/7
NIXON, Richard (1913-)	H/1
Nobel Foundation	MI/7
Nobel prize	H, LB/6, MH/11, MH/15, ML/10, MM/6, MM/15, MP/8, MS/15
North Atlantic Treaty Organisation	C/1, MB/21, MN/7/1
Nova University, Florida	MN/8
Nuclear energy	MS/9
Nuclear fuel cores	MK/5
Nuclear Medicine Society, Germany	MN/10, MW/2
'Il Nuovo Cimento'	MG/1, MN/9
OBERLIN, Agnes	MO/1
'Oedipus, Macbeth and Marx'	MM/11
'Omega'	MO/2
Onion roots, radiation emission from	D/35
Optical demodulation apparatus	LA/6A
OSANN, H	MS/2
OSTROVSKY, Y I	MO/3A
PALOCZI-HORVATH, George	MP/1
Paramount Pictures Corporation	EK/6
Patent Office, London	F/4

PATENTS	L
electric discharge devices,	EA/2/2
ferromagnetic media, etc	GA/1-4
frequency compression systems	ER/10
interference microscope	EM/1;
magnetic recording devices	LB/4-10
reflecting lens systems	EB/2/1
stereoscopic pictures	EG/4-6, EK/1,2,5,6
thermionic generation	GA/3
TV tube	ER/1,2
TV bandwidth compression	GA/4
PATERSON, C C	B/38
PATTISON, J G	ES/5
Paul Instrument Fund	EA/2/6, EM/1, EM/3, EM/4, MR/7/2
PEARCE, A F	EP/6
PECCEI, Aurelio (1908-)	MC/14
PEGGIE (dog)	D/14
PEIERLS, Sir Rudolf (Ernst) (1907-)	EC/1, EL/1, MP/2
Penguin paperback	ES/8
Pennsylvania University	MP/3
PERCIVAL, W S	MP/4
Personalist Group	ET/1
PESTEL, Eduard Christian Kurt (1914-)	MC/14, MN/7/2
Pesth Evangelical Church	B/11
PHILIP, Duke of Edinburgh (1921-)	MH/8
Photoelectric imaging	LB/10
Physics Department, Imperial College	MB/12, MS/8
PIAGGIO, Henry Thomas Herbert (1884-1967)	MP/5
PINCHER, (Henry) Chapman (1914-)	MP/6
PIRIE, Norman Wingate (1907-)	MC/14
Plasma dynamics course	GE/3
Plasma theory	EA/2, EA/3-4, EP, F/1
Plasma physics	MC/2

Plastic screens	EK/4
POLANYI, Michael (1891-1976)	EO/4, MP/7
POLSKY, Soviet physicist	MM/8
POPPER, Sir Karl (Raimund) (1902-)	MP/8
Population explosion	MS/5
PORTER, Arthur	MT/3
POWELL, Cedric J	EP/1-3, EP/6
PRAIN, Sir Ronald (Lindsay) (1907-)	MC/9
PRIESTLEY, John Boynton (1894-1984)	MP/9
PRIOR, John	F/6/1,2
Projection screens	EG/2
Protein synthesis	MH/4
Purdue University	MI/1
Quantum mechanics	MB/10
Radar	MM/12
Radiation emission from onion roots	D/35
Rand Corporation	MC/1, MR/1
Realiskola, Budapest	B/2
REDMAN, J D	MR/4/2
Reflecting lens systems	EB/2/1
REITER, Tibor	B/35, D/35, MR/2
Relay screen	EB/1
RENOLD, Hans	MR/3
RICHARDS, D David Llewellyn	MW/8
RITCHIE-CALDER, Lord (1906-)	MB/17, MC/6
Ritchie Lecture	MB/10
Robbins Report	MH/8

Rockefeller Foundation	MI/7
ROGERS, Gordon Leonard	MH/2, MR/4
ROSBAND, P	MB/10/5
ROSENFELD, Leon (1904-1974)	EN/2/1, K/4
ROSENTHAL, T G	ET/2
ROTHSTEIN, Jerome	EN/2/1
Royal Aeronautical Society	MR/5
Royal Institution	D/23, MH/4, MR/6, MS/12
Royal Society	EK/3, EM/1, EM/4, K/3, K/4, MB/20, MG/1, MH/15, MM/7, MM/16, MR/4/2, MR/7
Royal Society Club	MH/1
Royal Society of Arts	MR/8
Royal Statistical Society	EO/1
Rudolstadt house	D/13
RUDOLF, Paul	LB/6
Rugby flat	D/22
RUSKA, Ernst (1906-)	EC/2, MR/9
RUSSELL, Bertrand Arthur William 3rd Earl Russell (1872-1970)	ES/4
RYDER, Leven L	EK/6
RYLE, Sir Martin (1918-)	MR/10
SAHIAR,	MS/3
SAID, R A K	MT/5
SALAM, Abdus (1926-)	H/6
SALTER, Stephen	MS/1
SAUNDERS, Sir Owen (Alfred) (1904-)	EF/3
Schweizerischer Ingenieur und Architekten Verein	MS/2
Science and Society Council	MS/10

Science Museum	MS/3
Science Policy Foundation	MS/4
'The Scientist speculates'	MB/10, MP/7
SCOTT, Sir Peter (Markham) (1909-)	MM/4, MS/5
SCOTT, William John	MS/6
Secker and Warburg, publishers	ET/2
SELWYN, E W H	MS/7
SHANE, June Grant	A/1
SHARZ, Harold G	A/1
SHOCKLEY, William Bradford (1910-)	MS/8
SIBTHORP, M M (Miss)	MS/9
SIEGHART, Paul (1927-)	MS/10
Siemens and Halske Research Laboratory	B/32, B/35, D/37, EA/2/1
SIMS, G D	MS/13
Slimbridge Wildfowl Trust	MM/4
Smethurst High Light Ltd	GD/3
SMITH, Joyce	EP/1/1, ER/6
SMYTH, C N	EA/2/6
SNOW, Charles Percy Baron Snow (1905-1980)	MC/7, MS/11
Society of Engineers	MC/13
Society of Instrument Technology	MH/8, MS/12
Solar energy	MH/4
SOMERVILLE, I M	ES/4
SORENSEN, Arne	MW/13
Southampton University	MS/13
Soviet Jewry, Medical and Scientific Committee for	MM/8
Space Flight Center, George C Marshall	MN/2

Speech compression	LB/6, LB/7
Speech transmission	ED/1/5
SQUIRE, Herbert Brian (1909-1961)	MN/6
STAHL, Anders Nils Oscar Kase (1901-)	MI/7
STAPLEDON, (William) Olaf (1886-1950)	EA/1/6, MS/14
Statistical physics	EF/2
Stereoheads	LB/2
Stereoscopy	EG-EK
STEVENS, Roy Leslie	EF/3
STROKE, George Wilhelm (1924-)	EM/7, EM/9, H/3, MI/6, ML/5, MR/7/5, MS/15
STRONG, Donald S	MS/16
STUART, Peter Rawsthorne	ER/2, ER/3, MH/2, MI/3
Studiengesellschaft fur Hochstspannungs- anlage	B/31, B/32
'Sunday Times'	MS/17
Swedish Royal Academy of Sciences	H/6
SZEKELY, D L	MS/18
SZIGETI, Gyorgy (1905-)	MH/14
TABOR, Harry	MN/7/2
TAKAHASHI, M	ER/8
Tecnion, Israel	MG/2
Television bandwidth compression	GA/4, GD/2/6, LA/4, LB/6
Testosterone implantation	MR/2
Textil Wirtschaft	MT/1
THEOBALD, Robert	MM/5
Thermionic generators	F/6, ME/5
Thermoelective generators	MH/4
Thermomagnetic machines	EF/3

Thermonuclear power project	EP
Thomas Young medal	MI/2
Thomson Lecture	D/23, MS/12
THORPE, William Homan (1902-)	MT/2
Three dimensional cinema	EK/2,3
TINOMURA, Akurai	H/3
Tomography, ultrasonic	MN/3
Toronto University	MT/3
TOTHILL, Hugh Alfred William	ER/3, ER/6, GA/3
Touchstone Weekend 1964	MH/4
TRAIN, Russell Erroll (1920-)	MT/4
Treasury, HM	M/7
TREVOR-ROPER, Hugh Redwald Baron Dacre of Glanton (1914-)	MM/4
TUCKER, David Gordon (1914-)	MT/5
TUDOR-OWEN, Ronald Llewellyn Trevor	EF/4
TUMARKIN, Alexander	MT/6
TURNER, David Warren (1927-)	MR/7/2
TUSTIN, Arnold (1899-)	MP/7
TV tube, flat	D/41, ER, MA/6, MH/2, MH/4
TV tube, colour	LA/1
Twentieth Century Fox Film Corporation	EK/2
Tykociner Memorial Lecture	MI/1
TYNDALL, Arthur Mannering (1881-1961)	MW/8
Ultrasonic imaging	MN/3, MS/15
VAS, Robert	ES/10
VICKERS, Anthony	ME/1, MM/5
Video recording system	LA/5

Vienna police permit	B/12
VOLK, N T	EK/6
Volkswagenwerk	MV/1
VON ENGEL, Alfred (1898-1986)	GD/2/4
WAGNER, Karl Willy (1883-1953)	EF/5, MW/1
WAIDELICH, Wilhelm (1922-)	MW/2
WARBURG, Frederic John (1898-)	ES/4, ES/5
WARDER, Michael Young	MI/5
WARREN, Sir (Henry William) Hugh (1891-1961)	EA/3/1, MW/3
Watergate	MM/10
WATERHOUSE, Richard V	MW/4
Wave power	MS/1
WEINBERG, Alvin Martin (1915-)	MW/5
Weizmann Institute of Science	MW/6
WELKER, Heinrich	MN/7/2
WHITTAKER, Sir Edmund (1873-1956)	EN/2/1, K/3, MW/7
WHYTE, Lancelot Law	MW/8
WIENER, Norbert (1894-1964)	EF/2, MB/10
Wiener filters	EF/5
Wiener Memorial Lecture	MH/4
WIESNER, Jerome B (1915-)	EN/1, MP/1
WIGNER, Eugene Paul (1902-)	MP/7
WILLIAMS, Mary Bearden (1936-)	GD/2/9
WILLIAMS, Ivor	MA/13/1
WILSON, Carroll L (1910-)	MW/9
WILSON, E Proctor	MW/10
WOLF, Emil	MB/10/5, MW/11

WOLFENDEN, Sir John Frederick (1906-)	MB/16
World Future Society		MW/12
World Future Research Conference		MW/13
WRIGHT, Gordon Thomas		LA/5
X-rays, coherent		ER/9, ML/10
YOUNG, John Zachary (1907-)	MY/1
Young Presidents' Organization		ME/5, MY/2
ZOLLMANN, Peter		MH/2
Zurich ETH		EP/8
ZWORYKIN, Vladimir Kosma (1889-)	EC/2

