



National Cataloguing Unit for the Archives of Contemporary Scientists

Catalogue of the papers and correspondence of

JOSEPH STANLEY MITCHELL FRS

(1909 - 1987)

Compiled by Timothy E. Powell and Peter Harper

VOLUME II

Sections F - H

Index of Correspondents

Deposited in Cambridge University Library

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SECTION F

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F.465-F.467	WORLD ORGANISATION OF UNIVERSITY PROFESSORS OF MEDICAL RADIOLOGY

F.1-F.5 ADVISORY COUNCIL ON SCIENTIFIC POLICY 1947, 1948, 1955

Most of the material relates to Mitchell's service on the Council's Subcommittee on the Radioactive Substances Bill of 1947. The Subcommittee was convened to suggest amendments to the Bill 'in the light of objections which Lord Cherwell has raised to it'.

F.1 Note of preliminary discussion of the Bill, 12 June 1947, with suggested amendments (Mitchell was present); invitation to serve on the Subcommittee, 19 June; copy of the Bill; etc.

F.2 Papers *re* 1st meeting of Subcommittee, 24 July 1947, with Mitchell's manuscript notes on proceedings.

F.3 Papers circulated July-November 1947. Includes 'Outline of proposals for a revised Bill'.

F.4 Correspondence, November 1947 - April 1948; papers *re* meeting of Subcommittee, 20 January 1948.

F.5 Letter from J.D. Cockcroft, 22 June 1955, *re* permissible levels of discharge of radioactive wastes from hospitals. With miscellaneous material on the subject found therewith.

F.6-F.70 ANGLO-GERMAN MEDICAL SOCIETY 1959-86

This Society was founded in 1959 'to promote social and professional contacts between doctors ... mainly but not exclusively those with academic and research interests'. Mitchell helped establish it and was first President of the British Section, serving until 1968. The Society published a journal and held annual conferences alternately in Britain and West Germany.

A short account of the origins of the Society may be found at F.62.

F.6 Correspondence *re* establishment of the Society, January-August 1959.

F.7 Papers for inaugural meeting of the Society, London, 9 September 1959. Mitchell chaired the meeting.

- F.8 Correspondence and papers, September-December 1959, principally *re* Society's 'News Letter' and academic exchanges.
- F.9 Correspondence and papers, January-March 1960. Includes papers for the committee meeting and AGM of the British Section, 18 March. The chief item under discussion was the Society's constitution.
- F.10 Correspondence, April 1960.
- F.11 Correspondence, May 1960. Chiefly *re* Society's representation at Lindau meeting of Nobel prizewinners in Medicine.
- F.12, F.13 1st Joint Annual Meeting on Medical Education, 30-31 July 1960. Mitchell spoke on 'Probleme der ärztlichen Ausbildung in Grossbritannien'.
- F.12 Correspondence *re* arrangements; papers for the meeting.
- F.13 Typescript drafts in English and German of Mitchell's contribution.
- F.14 Correspondence and papers, August-December 1960. Includes material *re* 2nd committee meeting of the British Section, 12 October.
- F.15 Correspondence and papers, January-July 1961.
- F.16-F.18 2nd Joint Annual Meeting on Drug Action and Modern Therapy, London, 28-30 September 1961. Mitchell opened the meeting.
- F.16 Correspondence *re* arrangements.
- F.17 Programme for visit of German doctors to London; programme for meeting; typescript draft of Mitchell's opening address.

- F.18 Correspondence arising.
- F.19 Correspondence, January-May 1962, chiefly *re* membership of British Section.
- F.20 Correspondence, June-December 1962.
- F.21 3rd Joint Annual Meeting, Tübingen, 27-29 September 1962.
Programme, etc.
- F.22 Correspondence, January-September 1963.
- F.23-F.30 4th Joint Annual Meeting on the Modern Diagnosis and Treatment of Cancer, Cambridge, 25-28 September 1963. Mitchell helped organise the meeting. See also C.88.
- F.23-F.27 Correspondence *re* arrangements.
- | | | | |
|------|----------------------|------|------------------|
| F.23 | 1962 August-December | F.26 | 1963 July-August |
| F.24 | 1963 January-April | F.27 | 1963 September |
| F.25 | 1963 May-June | | |
- F.28 Programme, information, etc.
- F.29 Correspondence *re* BBC German service radio programme 'Modern diagnosis and treatment of cancer' broadcast 21 September. Mitchell prepared the text of the talk in English to be delivered by E. Kawerau in German. Includes typescript of Mitchell's text.
- F.30 Correspondence arising from meeting, October-December 1963.
- F.31 Correspondence, January-July 1964, chiefly *re* 'influx of members from H.M. Forces stationed in Germany'.

- F.32 Anglo-German Psychiatric Conference, Edinburgh, 14-16 May 1964. This conference was sponsored by the Society. Mitchell gave the opening address.
- Correspondence *re* arrangements; programme; information; typescript of Mitchell's address.
- F.33 Correspondence, August-December 1964.
- F.34 5th Joint Annual Meeting, West Berlin, 1-3 October 1964.
- Correspondence *re* arrangements.
- F.35 Correspondence and papers, January-May 1965. Includes material for committee meeting of the British Section, London, 10 March, and plan for a 'German House of Medicine' in London.
- F.36 Symposium on Medical Genetics, London and Caterham, 3-4 June 1965.
- Correspondence *re* arrangements; programme.
- F.37 Correspondence and papers, June-December 1965.
- F.38 6th Joint Annual Meeting, Manchester, 23-25 September 1965.
- Correspondence *re* arrangements; programme.
- F.39 Correspondence, January-July 1966. Includes correspondence *re* cancellation of planned symposium on Medicine in the Tropics sponsored by the Society.
- F.40 Correspondence, August-December 1966, principally *re* joint meeting of the Anglo-Continental and Anglo-German Medical Societies, London, 15 November.
- F.41 7th Joint Annual Meeting, Bad Nauheim, 29 September - 1 October 1966.
- Correspondence *re* arrangements.

- F.42 Correspondence and papers, January-April 1967, principally *re* committee meeting of the British Section, London, 11 February.
- F.43 Correspondence and papers *re* visit of German doctors to Cambridge, 4 May 1967. Mitchell gave a talk on 'Cambridge und die Medizin'. Includes 5pp duplicated typescript draft of Mitchell's talk.
- F.44 Correspondence, May-August 1967, principally *re* proposed visit of German doctors and medical health officers to Cambridge. The visit was cancelled. Also includes draft publicity statement about the Society.
- F.45 8th Joint Annual Meeting on Gerontology, Glasgow, 14-16 September 1967. Mitchell delivered the welcoming address.
- Correspondence and papers *re* arrangements; programme; manuscript draft of Mitchell's address.
- F.46 Correspondence and papers, September-December 1967.
- F.47 Correspondence and papers, January-February 1968, principally *re* first meeting of Münster branch of the Society.
- F.48 Correspondence and papers, March-June 1968.
- F.49 Correspondence and papers, July-October 1968, including material *re* committee meeting of the British Section, London, 24 October.
- F.50 9th Joint Annual Meeting on Infectious and Transmittable Diseases, Kiel, 19-21 September 1968.
- Correspondence *re* speakers from Britain; programmes; abstracts; correspondence arising.
- F.51 Correspondence, January-June 1969, principally *re* committee membership.

- F.52 10th Joint Annual Meeting, Brighton, 8-11 September 1969.
Programme; provisional list of delegates; etc.
- F.53 Correspondence and papers, January-November 1970.
- F.54 11th Joint Annual Meeting on Renal Disease in Hospital and General Practice, Freiburg, 9-12 September 1970.

Invitation; programme; etc.
- F.55 Correspondence, 1971, principally *re* meeting of the Münster Branch, 26 April, and the future of the *Anglo-German Medical Review*.
- F.56 List of Society members, 1971.
- F.57 Correspondence and papers, January-October 1972, principally *re* student exchanges.
- F.58 13th Joint Annual Meeting on Chronic Broncho-pulmonary Disease, West Berlin, 20-24 September 1972. Mitchell planned to attend but withdrew.

Correspondence *re* arrangements; programme; abstracts of British contributions; etc.
- F.59 Correspondence and papers, 1973.
- F.60 Correspondence and papers, 1974, principally *re* committee meetings of the British Section.
- F.61 Correspondence, 1975, principally *re* committee meetings of the British Section.
- F.62 Correspondence and papers, 1976. Includes manuscript draft of a 'short historical note about the beginnings of the Anglo-German Medical Society' by Mitchell.

- F.63 Correspondence and papers, 1977-78, principally *re* committee meetings of the British Section.
- F.64 Correspondence and papers, 1979-81.
- F.65 20th Joint Annual Meeting on Rheumatic Diseases, Bath, 19-22 September 1979.

Information; programme; abstracts (some annotated by Mitchell); manuscript notes on proceedings; photograph of Mitchell at the Meeting.
- F.66 21st Joint Annual Meeting, Münster, 24-27 September 1980.

Programme; abstracts (some annotated by Mitchell).
- F.67 Correspondence and papers, 1982-83.
- F.68 Correspondence and papers, 1984-86, principally *re* committee meetings of the British Section.
- F.69 25th Joint Annual Conference, Celle, 12-15 September 1984.

Programme; manuscript notes on proceedings.
- F.70 Anglo-German Medical Society Newsletters, 1975, 1983, 1984, 1986.
- F.71, F.72 **BRITISH ASSOCIATION FOR CANCER RESEARCH** 1974-77, 1980
- F.71 Notices of meetings 1974-76; enquiry *re* transplantable tumours, 1980.
- F.72 Programme for 18th AGM, Cambridge, 23-25 March 1977, annotated by Mitchell.

F.73-F.76

BRITISH ASSOCIATION OF SURGICAL ONCOLOGY

1973-84

Mitchell joined the Association shortly after its formation in 1972.

The material consists chiefly of papers for meetings of the Association.

F.73 1973

F.75 1976

F.74 1974-75

F.76 1978-84

F.77

BRITISH BREAST GROUP

1976, 1980

Papers for and Mitchell's manuscript notes on meetings, 10 April 1976 and 4 July 1980.

F.78-F.83

BRITISH CANCER COUNCIL

1970, 1974-77

The British Cancer Council was established in 1968 'to promote education on the subject of cancer prevention, treatment and after-care'. Mitchell was a Vice-President.

The material is principally papers for meetings of the Council and its executive committee.

6 folders.

F.78 1970, 1974 March-May

F.81 1976 January-July

F.79 1974 July-November

F.82 1976 August-December

F.80 1975

F.83 1977

F.84-F.100

**BRITISH COMMITTEE ON RADIOLOGICAL UNITS
(later BRITISH COMMITTEE ON RADIATION UNITS
AND MEASUREMENTS)**

1958-73

Mitchell was a member of the British Committee on Radiological Units as a representative of the British Institute of Radiology and the Royal Society. The Committee worked in collaboration with the International Commission on Radiological Units but when this liaison effectively ended in 1958 the Committee met less frequently. An *ad hoc* committee was established in 1965, with Mitchell as a member, to consider the future of the Committee on Radiological Units. It recommended that the Committee be reorganised and in 1967 the British Committee on Radiation Units and Measurements was established. Mitchell served on this body 1970-73.

F.84-F.86

British Committee on Radiological Units.

Correspondence and papers *re* committee meetings 1958-65.

F.84 1958, 1961

F.86 1965

F.85 1963-64

F.87

Ad hoc committee on the future of the British Committee on Radiological Units.Correspondence and papers *re* meetings of the committee, 1965, and preparations for the reorganisation of the British Committee, 1966-67.

F.88-F.100

British Committee on Radiation Units and Measurements.

F.88

Invitation to serve on the Committee on the retirement of W.V. Mayneord, 2 February 1970, with brief correspondence arising.

F.89-F.100

Papers for Committee meetings, 1970-73.

F.89 1970 February (1)

F.95 1971 January

F.90 1970 February (2)

F.96 1971 February

F.91 1970 February (3)

F.97 1972 (1)

F.92 1970 April

F.98 1972 (2)

F.93 1970 May

F.99 1972 (3)

F.94 1970 June-December

F.100 1973

F.101

BRITISH PSYCHOSOCIAL ONCOLOGY GROUP

1983-85

This multidisciplinary group was formed in 1983 to study psychological and social dimensions of cancer.

Papers for meetings.

F.102

**BRITISH RADIOLOGICAL PROTECTION ASSOCIATION
LIMITED**

1977, 1978

Papers for 7th and 8th AGMs.

- F.103 **BRITISH SOCIETY FOR CELL BIOLOGY** 1977
Re membership.
- F.104 **CAMBRIDGE MEDICAL SOCIETY** 1963, 1974, 1978-80, nd.
Papers for meetings; invitation (declined) to serve as President 1978-79.
- F.105 **CAMBRIDGE SOCIETY** 1983
Papers for AGM.
- F.106 **COMMISSION OF ENQUIRY INTO IONISING RADIATION
(SOUTH AFRICA)** 1960
Query on the use of X-ray treatment of dermatological conditions, with Mitchell's reply.
- F.107-F.112 **COMMISSION OF THE CHURCHES ON INTERNATIONAL
AFFAIRS** 1957-69
Mitchell became a member of the Medical Consultative Committee in 1957. This Committee was suspended in 1963 and wound up in 1965.
- F.107 Correspondence 1957 *re* meeting to discuss nuclear fallout; invitation to serve on the Consultative Committee.
- F.108 Medical Bulletins 1 and 2 (1957).
- F.109 Medical Bulletins 3 (1958), 5 (1960), 7 and 8 (1961).
- F.110 Papers *re* 17th meeting of the Commission's Executive Committee, Paris, 1-4 August 1962.
- F.111 Medical Bulletin 9 (1962); Commission Report 1961-62.

F.112 Correspondence 1963-65, 1969. Includes correspondence *re* suspension of the Medical Consultative Committee.

F.113-F.123 **COMMITTEE OF VICE-CHANCELLORS AND PRINCIPALS (CVCP)** 1957-65

In 1957 the CVCP established a small Radio-Active Substances (Universities) Subcommittee under J.E. Harris to consider the operation of the 1948 Radioactive Substances Act within universities. Mitchell served on the subcommittee which met twice, in 1957 and 1958. On its recommendation a Standing Subcommittee on Radiation Hazards was set up, chaired by W.V. Mayneord. Mitchell agreed to serve.

The chief concern of the Standing Subcommittee was the formulation of a standard Code of Practice for the protection of those working with radioactive substances. A first draft was completed by September 1959 and the second, prepared by Mitchell, was distributed in 1961.

F.113 Correspondence *re* establishment of Radio-Active Substances (Universities) Subcommittee 1957.

F.114 Correspondence and papers *re* 2nd meeting of the Subcommittee, 12 February 1958.

F.115 Correspondence *re* establishment of the Standing Subcommittee on Radiation Hazards, June-September 1958, and correspondence and papers *re* 1st meeting, 22 October 1958.

F.116 Correspondence and papers, January-May 1959. Includes papers *re* 2nd meeting of subcommittee, 20 January.

F.117-F.119 Comments on the first draft 'Code of Practice for the protection of persons exposed to ionizing radiations in university laboratories', September-November 1959. Includes note of meeting of radiation protection officers with the Standing Subcommittee to discuss the draft, 28 September. 3 folders.

F.120 Correspondence *re* preparation of the second draft, October 1959 - February 1960, and distribution of final Code of Practice, February-March 1961.

- F.121 Correspondence *re* revision of Code of Practice 'In the light of the proposed Ministry of Labour Code of Practice for Research Establishments', 1963-64.
- F.122 Papers for meeting of the Standing Subcommittee 'to consider the draft text of a handbook which has been prepared ... for use in universities in conjunction with the Ministry of Labour Code of Practice for the protection of persons exposed to ionising radiations in research and teaching', 3 May 1965; papers *re* draft, 1965.
- F.123 Copy of 'Radiological Protection in the Universities. A supplementary handbook to the Ministry of Labour and Ministry of Health Codes of Practice' by H.D. Evans. Retained in original binding.
- F.124 **EUROPEAN NUCLEAR MEDICINE SOCIETY** 1982
Membership.
- F.125, F.126 **EUROPEAN SOCIETY OF THERAPEUTIC RADIOLOGY AND ONCOLOGY** 1982, 1984, 1986
- F.125 Correspondence, 1982.
- F.126 Correspondence and papers, 1984, 1986.
- F.127, F.128 **FOREIGN OFFICE** 1946-48
Mitchell served on the Physics Panel of the Research Branch of the Control Commission for Germany from 1947.
- F.127 Correspondence, principally with N.F. Mott, Chairman of the Panel, 1946-47. Includes letters on the supply of radioactive isotopes to German universities.
- F.128 Correspondence, 1947-48.

- F.129 **HOSPITAL PHYSICISTS' ASSOCIATION** 1952, 1981, 1985, 1986
- Mitchell was an Honorary Member.
- Timetable for Association summer-school, September 1952; miscellaneous correspondence.
- F.130-F.132 **INTERNATIONAL CLUB OF RADIOTHERAPISTS** 1953-70
- The Club was formed in 1953 as the International Radiotherapists' Visiting Club.
- F.130 Invitation to join; correspondence, 1953-59
- F.131 Correspondence and papers, 1962-65.
- F.132 Correspondence, 1967-70, including Mitchell's appointment as Emeritus member of the Club, December 1969.
- F.133-F.138 **INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION** 1950, 1956-60
- Mitchell was vice-chairman of Committee IV considering 'Protection against X-rays above 3MV and heavy particles including neutrons and protons' for the revised *Recommendations of the International Commission on Radiological Protection*, published in 1959.
- F.133 Invitation to serve, 9 November 1950; correspondence and papers, 1956-57. Includes 'Report on amendments during 1956 to the Recommendations of the International Commission on Radiological Protection'.
- F.134 Draft Report of Committee IV, February 1958.
- F.135 Final draft Report of Committee IV, March 1958; related correspondence, March-April 1958.
- F.136 Correspondence and papers *re* report of the Main Commission, September 1958 - June 1959.

F.137 Copy of the *Recommendations*.

F.138 Draft of revised Committee IV report, 1960.

F.139-F.162 **INTERNATIONAL UNION AGAINST CANCER** 1954-58

Mitchell joined the Chemotherapy Committee of the Commission on Cancer Research as its British member in 1955. He also formed and chaired the Chemotherapy Committee's Great Britain and Ireland Subcommittee 1955-58. Most of the material relates to conferences on chemotherapy organised by the Union.

F.139 Correspondence *re* Mitchell's appointment and related matters, 1954-55.

F.140-F.145 European Symposium on Chemotherapy of Cancer, Oslo, 21-25 May 1956. Mitchell was an organiser and spoke on 'Some laboratory and clinical studies of radiosensitisers'. See also D.166, D.167

F.140-F.144 Correspondence *re* arrangements. 5 folders.

F.145 Programme; correspondence arising, May-July 1956.

F.146 Correspondence *re* Secretaryship of the Great Britain and Ireland Subcommittee 1956.

F.147-F.149 Meeting of the Great Britain and Ireland Subcommittee, Cambridge, 26-27 July 1957.

F.147, F.148 Correspondence *re* arrangements. 2 folders.

F.149 Papers *re* arrangements for meeting; correspondence arising, etc.

- F.150-F.152 7th International Cancer Congress, London, 6-12 July 1958. Mitchell presented a paper on 'Some recent laboratory studies of some chemical radiosensitisers', with I. Simon-Reuss and E.A. King (*Bibliog.* 66).
- F.150 20pp typescript draft plus 2pp summary.
- F.151 Figures and tables for the preceding.
- F.152 Correspondence *re* post-Congress visits to Cambridge by participants.
- F.153-F.159 International Symposium on Cancer Chemotherapy, 13-15 July 1958. Mitchell was director of the organising committee. See also C.85.
- F.153-F.156 Correspondence *re* arrangements. 4 folders.
- F.157 List of participants; programmes.
- F.158 Reports on the symposium.
- F.159 Correspondence arising.
- F.160, F.161 Meeting of Great Britain and Ireland Subcommittee, ICI Alderley Park and Christie Hospital Manchester, 6-7 November 1958. See also C.85.
Correspondence *re* arrangements. 2 folders.
- F.162 Brief correspondence *re* Mitchell's resignation from chairmanship of the Great Britain and Ireland Subcommittee, November 1958.
- F.163 **LISTER INSTITUTE OF PREVENTATIVE MEDICINE** 1982-86
Mitchell was a member of the Institute.
Papers for meetings, including the 1st Lister Institute Research Fellowship meeting, Cambridge, 2-3 August 1985, with Mitchell's manuscript notes on proceedings.

F.164-F.393

MEDICAL RESEARCH COUNCIL (MRC)

1946-82

The material covers Mitchell's service from 1946 on MRC committees and panels established after the war to advise on radiation hazards and the medical applications of radiation. Mitchell sat on most of these bodies; the best documented here being the Committee on the Medical and Biological Applications of Nuclear Physics and the Committee on Protection against Ionising Radiations. On behalf of the MRC Mitchell attended a number of the Tripartite Conferences (Britain, the USA and Canada) held between 1948-53 to formulate programmes of study and lay down standards for permissible doses of radiation and assisted Danish investigations into thorotrast, a solution of thorium dioxide which had been widely used in Denmark for radiological investigations and which had been identified as a possible cause of illness in a number of patients. In 1959, however, with research and administrative responsibilities in Cambridge placing greater demands on his time, Mitchell reduced his by then extensive MRC commitments (see F.175).

The material is presented as follows:

- F.164-F.183 General correspondence and papers
- F.184-F.208 Tripartite Conferences
- F.209-F.237 Advisory Panel on the Allocation of Radioactive Isotopes for Clinical Research
- F.238 Biophysics Committee
- F.239 Committee appointed to report on the health and safety aspects of the accident at Windscale, October 1957
- F.240-F.244 Committee on the Hazards to Man of Nuclear and Allied Radiations
- F.245-F.247 Committee on Medical Aspects of Radiation
- F.248-F.319 Committee on the Medical and Biological Applications of Nuclear Physics
 - F.248-F.254 General correspondence and papers
 - F.255-F.285 Clinical Subcommittee
 - F.255-F.280 General
 - F.281-F.284 Isotopes Panel
 - F.285 Radio Cobalt Panel
 - F.286-F.316 Protection Subcommittee
 - F.286-F.300 General
 - F.301-F.316 Tolerance Doses Panel

- F.317-F.319 Trace Elements Subcommittee
- F.320-F.375 Committee on Protection against Ionising Radiations
 - F.320, F.321 General correspondence and papers
 - F.322-F.372 Subcommittee on Internal Radiations
 - F.322-F.361 Thorotrast
 - F.362-F.372 General
 - F.373-F.375 Other subcommittees
- F.376, F.377 Joint MRC/AEA Coordinating Committee for Radiobiological Research
- F.378-F.380 Panel on Atomic Bomb Explosions
- F.381-F.385 Nuclear Hazards (Civil) Committee
- F.386-F.388 Nuclear Hazards (Military) Committee
- F.389-F.391 Radiobiology Committee
- F.392, F.393 Subcommittee on the Christie Hospital and the Holt Radium Institute, Manchester

General correspondence and papers

1947-82

- F.164 1947. Research proposal to use radioactive sodium for experimental studies on man, passed to Mitchell for comment. With Mitchell's manuscript notes on radioactive sodium and draft reply.
- F.165 1948. Includes material *re* meeting at the MRC 'to discuss the synchrotron programme' in view of escalating costs, 17 September.
- F.166 1949. Copy of request from the Royal Navy Medical Department 'on the question of obtaining assistance and advice on the problems which have arisen from the introduction of atomic energy into warfare' with a statement on the principal problems, 5 May.
- F.167 1950. Includes brief correspondence from H.P. Himsworth *re* liaison with the USA on biological applications of nuclear energy.

- F.168 1954. Includes 'Memorandum on present methods in radioactive isotope therapy and some quantitative aspects of the use of radioactive isotopes in clinical investigations' by Mitchell, 31pp typescript sent to the MRC 30 November 1954.
- F.169 1955 January. Includes Mitchell's 'Translation of part of a "Confidential" Swedish Report: Studies of the influence of roentgen irradiation, with and without the addition of protecting substance, upon the fertility and mutation frequency in mice', arising from an informal meeting of the Swedish Medical Defence Research Council attended by Mitchell.
- F.170 1955 August, September. Draft report on 'The value of supervoltage therapy in the 1-10 MeV range' sent to Mitchell for comment 15 August. With Mitchell's reply of 5 September.
- F.171 1955 December. Revised draft report.
- F.172 1955-56.
- F.173 1957 January.
- F.174 1957. Includes reports of meetings on pathological effects of radiostrontium attended by Mitchell.
- F.175 1959. Correspondence *re* Mitchell's membership of MRC committees. Mitchell wished to reduce his commitments in order to be able to concentrate on his research.
- F.176 1960-63. Includes 'Statement by the Medical Research Council on radioactive fall-out in the light of the resumption of nuclear weapon testing' 24 October 1961, annotated by Mitchell, and correspondence with W.H. Thorpe *re* MRC research into the effects of toxic chemicals used in agriculture.
- F.177 1964.

- F.178 1965. Papers from symposium on the scientific basis of radiation dose fractionation effects, MRC, 29-30 January, sent to Mitchell who was unable to be present.
- F.179 1966.
- F.180 1967.
- F.181 1968. Material *re* conference to discuss the possible risks arising from exposing children to radiation for experimental procedures, MRC, 19 March. Includes draft minutes of the conference.
- F.182 1970. Correspondence *re* the use of californium-252.
- F.183 1971-82.

Tripartite Conferences

1948-54, 1979

Post-war co-operation between Britain, Canada and the USA on the uses of nuclear energy included a series of tripartite meetings, among them the Tripartite Conferences on Permissible Doses, which met between 1948-53 to formulate programmes of study and lay down basic standards for tolerance doses of radiation. Mitchell attended a number of these on behalf of the MRC. Mitchell also attended a Tripartite Conference on effects of atomic explosions held in Washington DC in 1954. See also F.315.

- F.184-F.194 Visit to USA, 25 March - 14 April 1948.

Mitchell visited the USA principally to attend a Tripartite Conference in Washington DC as a member of the British Medical Mission. The main item under discussion was 'Experimental work to determine tolerances'. He reported back to the Tolerance Doses Panel of the Protection Subcommittee of the Committee on the Medical and Biological Applications of Nuclear Physics (F.301-F.316).

While in the USA Mitchell visited colleagues at a number of US research establishments (see also C.79, C.80).

- F.184 Annotated typescript notes for meeting to brief the Medical Mission, 16 March; list of US scientific reports with brief correspondence and Mitchell's note of reports in which he was interested (F.185-F.188).

- F.185-F.188 Abstracts of US scientific reports, some stamped 'Joseph S. Mitchell'. 4 folders.
- F.189-F.191 Manuscript draft of Mitchell's 'Report on visit to U.S.A.', paginated 1-111 (pages 51-69 missing). 3 folders.
- F.192 'Report on visit to U.S.A.', 4 May 1948. This was submitted to the Tolerance Doses Panel
- F.193 Report of D.G. Catcheside, 22 May 1948.
- F.194 Correspondence *re* Mitchell's report, April-June 1948.
- F.195-F.197 Tripartite Conference on Permissible Doses, Chalk River, Canada, 29-30 September 1949. Mitchell reported back to the Tolerance Doses Panel
- F.195 Draft agenda and minutes, corrections and notes for the draft minutes.
- F.196 Report of the British delegation to the conference; brief correspondence arising.
- F.197 Final (Canadian) Report on the conference, based on the British report, May 1950. The minutes were presented at the 27th meeting of the Tolerance Doses Panel (F.315).
- F.198 Agenda of 30th meeting of Tolerance Doses Panel, 6 August 1950. This meeting was held as part of the Tripartite Conference on Permissible Doses, Buckland House, Berkshire. Folder also includes formal invitation (declined) to meet the US and Canadian delegates.

F.199-F.201

Visit to USA, March-April 1953.

Mitchell attended the Tripartite Conference on Permissible Doses at Harriman, NY, 30 March - 1 April. He reported back to the Internal Radiation Subcommittee of the MRC Committee on Protection against Ionising Radiations.

While in the USA Mitchell visited colleagues at a number of US research establishments.

Correspondence *re* arrangements. 3 folders.

F.202-F.207

Tripartite Conference on Effects of Atomic Explosions on Human Beings and their Environment, Washington DC, February 1954. Mitchell spoke on 'Relative biological efficiency of pulsed 30 MeV_p x-rays and Ir¹⁹² gamma rays'.

F.202

Annotated agenda covering 15-19 February; 3pp typescript summary of Mitchell's contribution with manuscript notes found attached; manuscript notes (? on proceedings).

F.203-F.207

Material found with preceding.

F.203

'Information [on effects of nuclear explosions] requested from the United Kingdom'; tables of effects of exposure to radiation from nuclear explosions, table IV 'Effects of beta-radiation' annotated by Mitchell; typescript note 'List II. Biological effects of atomic weapons'.

F.204

Typescript sheets on radioactive fall-out from 'Operation Hurricane'. This was the name given to the first British atomic test at Monte Bello, Australia, 3 October 1952.

F.205

Mitchell's graph for 'Approximate estimate of mortality in man for total body irradiation with filtered 200-250 kV x radiation in a single exposure'; 'Lethal doses of x and gamma radiation' by R.H. Mole, latest bibliographical reference 1948; 'Immediate mortality from 50-100r x-radiation' anon.; typescript notes on 'External beta-source application'.

F.206

'Thermal burns from the Atomic Bomb' by H.E. Pearse and H.D. Kingsley, University of Rochester NY Atomic Energy Project, 1953.

F.207 'The uptake of fission fall-out material by plants and animals', US Atomic Energy Commission, 1953.

F.208 Letter to Mitchell, 18 September 1979, requesting material for collection of papers relating to the Tripartite Conferences.

**Advisory Panel on the Allocation of Radioactive Isotopes
for Clinical Research**

1946-57, 1976-79

The Panel was formed in 1948, partly in response to US restrictions on the supply of radioactive isotopes, to organise the 'efficient distribution and assay of radioactive and stable isotopes required as tracer elements for purposes of research and of radioactive isotopes for therapeutic purposes'. It replaced the Trace Elements Subcommittee of which Mitchell was also a member (see F.317-F.319).

In 1976 the Department of Health and Social Security took over responsibility for the allocation of isotopes and formed the Isotope Advisory Panel on which Mitchell served for two years. In 1979 the Panel was disbanded and replaced by the Statutory Radiopharmaceutical Advisory Committee.

F.209, F.210 Background material *re* establishment of Panel.

F.209 'Note of Meeting at the Royal Institution on 7th January, 1946' to discuss arrangements for distribution and assay of isotopes.

Australian Scientific Research Liaison Office, Washington DC, report on 'Utilization of isotopes in research', 2 May 1946.

US Atomic Energy Commission 'Information for foreign governments concerning procedures for obtaining radioisotopes', 20 October 1947.

Draft report on 'Availability of isotopes for British workers' dated by Mitchell 8 January 1948.

F.210 'Revised list of [British] biological research projects utilising radioactive isotopes - March, 1948'.

Copy of US Atomic Energy Commission Isotopes Division Circular 'Atomic Energy Commission policy on production and distribution of isotope-labelled compounds', 8 July 1948.

- F.211 Correspondence *re* applications for isotopes, September 1948. These were handled by the Tracer Elements Sub-Committee before the Panel officially came into existence on 1 October.
- F.212-F.221 Correspondence *re* requests for radioactive isotopes passed to Mitchell for comment, 1948-54. Also includes the requests Mitchell himself sent to the Panel.
- | | |
|-----------------------------|-------------------------------|
| F.212 1948 October | F.217 1949 May-June |
| F.213 1948 November | F.218 1949 July-August |
| F.214 1948 December | F.219 1949 September-December |
| F.215 1949 January-February | F.220 1950-51 |
| F.216 1949 March-April | F.221 1952-54 |
- F.222 Minutes of meeting on isotope assay standardisation, MRC, 23 November 1948. Mitchell was not present.
- F.223-F.227 Correspondence and papers *re* meetings of the Panel, 1949-57. Those 1955 are for the Panel's Subcommittee on Methods of Decontrol.
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|------------------|------------|
| F.223 1949, 1951 | F.226 1955 |
| F.224 1952 | F.227 1957 |
| F.225 1954 | |
- F.228 Correspondence, 1954-55. That 1954 is chiefly *re* preliminary list of permissible isotopes for clinical use and proposed new arrangements for registration of cases treated with radioactive isotopes.
- F.229 Invitation to serve on the Isotope Advisory Panel under DHSS administration, 28 April 1976; preliminary correspondence and background information.
- The role of the Panel was defined as advising 'on the use of radioactive isotopes in clinical medicine and research in the UK'.

F.230-F.234 Correspondence *re* requests to use, or for advice on, radioactive isotopes passed to Mitchell for comment 1976-79.

F.230 1976

F.233 1978 (2)

F.231 1977

F.234 1979

F.232 1978 (1)

F.235, F.236 Papers *re* The Medicines (Administration of Radiopharmaceuticals) Regulations 1977.

The Panel advised on the drawing up of the regulations to implement a European Community Directive. These included the creation of a Statutory Advisory Committee to replace the Advisory Panel.

F.235 First draft of regulations; 'Notes for guidance on the Regulations'; etc.

F.236 Final draft of regulations and associated orders, distributed September 1977.

F.237 Brief correspondence *re* dissolution of Isotope Advisory Panel 1977, 1979; papers for meeting of the Panel, 20 July 1977.

Biophysics Committee

1948, 1951, 1954

The committee was formed 'to advise and assist ... in the promotion of research in biophysics' in 1948. Mitchell agreed to serve.

F.238 Constitution 1948; papers for visit of committee to Cambridge, 25 May 1951; letter announcing disbandment of committee, 27 April 1954.

Committee appointed to report on the health and safety aspects of the accident at Windscale, October 1957

1957

This committee gave evidence to the UKAEA Committee of Inquiry on the Windscale Accident. Mitchell was a member.

F.239 Untitled note (? by Mitchell) beginning 'The meeting on October 25th about Windscale left rather a discrepancy between the bases used for calculating levels of radioiodine and of radiostrontium in milk', 3pp typescript; copy of letter to B. Lush from E.E. Pochin *re* ingestion of ¹³¹I; copy of Report of the Committee of Inquiry (Cmnd.302, November 1957); etc.

Committee on the Hazards to Man of Nuclear and Allied Radiations 1956, 1959-60, 1968

This Committee was established in 1955 under the Chairmanship of Sir Harold Himsworth, Secretary of the MRC, to report to the House of Commons. It submitted its Report in 1956, but continued in being until 1968 when Himsworth retired although it had last met in 1960.

F.240 Copy of Report *The Hazards to Man of Nuclear and Allied Radiations* (Cmnd.9780, June 1956). Mitchell contributed especially to chapter IV on 'The genetic effects of radiation'.

F.241 Correspondence and papers, 1959. Includes copy of letter, 29 October, from Radiocarbon Dating Laboratory, Cambridge, to Himsworth *re* increase in carbon content of oat crop, 1953-59.

F.242, F.243 Committee papers, 1960. 2 folders. F.243 includes 'Considerations of the genetic hazard to Man of radio-carbon-14' by Mitchell.

F.244 Letter *re* dissolution of committee, 9 July 1968.

Committee on Medical Aspects of Nuclear Radiation

1955-56

F.245 'Summary of the results of the Danish thorotrast investigation' by Mitchell, May 1955. Report for the Panel on Individual Effects. See F.322-F.361.

F.246 'Note on the "doubling dose" in May' by Mitchell, June 1955. Report for Panel on Genetic Effects. Includes manuscript draft of report.

F.247 Papers by F.W. Spiers 1955, 1956.

Committee on the Medical and Biological Applications of Nuclear Physics

1946-50

The material is presented as follows:

F.248-F.254 General correspondence and papers

F.255-F.285 Clinical Subcommittee

F.286-F.316 Protection Subcommittee

F.317-F.319 Trace Elements Subcommittee

General correspondence and papers

Chiefly papers *re* meetings of the main committee 1946-50.

- F.248 Agenda for third meeting of the Committee, 8 August 1946; 'The therapeutic applications of high energy beta and gamma radiations, with special reference to Betatrons for voltages up to 50 MEV' by Mitchell and L.H. Gray, prepared for the meeting; material found with preceding including 'Memorandum on the need for a cyclotron for medical and biological investigations' by Mitchell.
- F.249 Minutes of fifth meeting, 23 January 1947; brief correspondence *re* 30 MeV synchrotrons, April 1947; etc.
- F.250 Agenda and minutes *re* meeting of Chairmen and Secretaries of the Committee's subcommittees, 18 September 1947, with 'Note on therapeutic applications of radioactive isotopes' prepared by Mitchell for the meeting, and correspondence *re* treatment with radio-strontium and radio-phosphorus.
- F.251 Brief correspondence, January 1948, *re* possible conference on medical and biological applications of nuclear physics; minutes of 7th meeting, 4 February 1948; papers *re* 8th meeting, 22 July 1948.
- F.252 Minutes of 9th meeting, 8 October 1948; agenda and minutes of 10th meeting, 1 December 1948.
- F.253 Papers *re* 11th meeting, 9 March 1949.
- F.254 Correspondence and papers *re* Conference on the reorganisation of the Committee on the Medical and Biological Applications of Nuclear Physics 17 October 1950; papers *re* 12th meeting, 24 October 1950.

Clinical Subcommittee

This subcommittee, of which Mitchell was the Secretary, was responsible for overseeing clinical trials. It held its first meeting in March 1946. Much of the material relates to the development of radiotherapeutic equipment.

F.255-F.280 General

F.281-F.284 Isotopes Panel

F.285 Radio Cobalt Panel

F.255-F.280 General

F.255 Letter *re* circulation of subcommittee papers; minutes of 1st meeting, 7 March 1946; correspondence *re* subcommittee membership, December 1947.

F.256 Agenda, minutes and Mitchell's manuscript notes on third meeting, 29 January 1948; 'Synopsis of proposed scheme of research into the applications of nuclear physics in medicine' approved at the meeting. See also D.145.

F.257 Correspondence, February-June 1948. Includes letter from National Radium Commission *re* radioactive isotope use in therapy, 6 April, and Mitchell's comments sent to Sir Henry Dale, 4 June.

F.258 Correspondence, July-August 1948.

F.259 Correspondence, September 1948, *re* agenda of 4th meeting. Includes Mitchell's drafts of 'Note on progress' on the medical cyclotron and synchrotrons and on isotopes for clinical research, and 'Radioactive isotopes for clinical research'.

F.260 Papers *re* 4th meeting, 30 September 1948; correspondence arising.

F.261 Correspondence *re* agenda of 5th meeting, chiefly radio-cobalt as a substitute for radium.

- F.262 Papers *re* 5th meeting, 20 January 1949. This meeting established the Radio Cobalt Panel. See also C.18, F.285.
- F.263 Correspondence and papers, February-April 1949.
- F.264 Papers *re* 6th meeting, 28 April 1949.
- F.265 Correspondence, April-September 1949.
- F.266 Correspondence *re* agenda of 7th meeting.
- F.267, F.268 Papers *re* 7th meeting, 27 October 1949. 2 folders.
- F.269 Correspondence, October 1949 - February 1950.
- F.270 Papers *re* 8th and 9th meetings, 16 December 1949 and 28 June 1950.
- F.271 Minutes of 10th and 11th meetings of the US National Research Council Committee on Atomic Casualties circulated to the clinical subcommittee, November 1950.
- F.272-F.280 Correspondence *re* supply of radioactive isotopes (especially radiophosphorus) and radiotherapy equipment for clinical trials, 1946-48. See also the Isotope Advisory Panel F.209-F.237.
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|-----------------------------|-----------------------------|
| F.272 1946 July-September | F.277 1947 October-December |
| F.273 1946 October-December | F.278 1948 January-February |
| F.274 1947 January | F.279 1948 March-May |
| F.275 1947 February-March | F.280 1948 June-December |
| F.276 1947 April-September | |

F.281-F.284

Isotopes Panel

This Panel was formed to recommend arrangements for clinical trials of the radiotherapeutic possibilities of radiophosphorus and other isotopes. Mitchell was Acting Secretary.

F.281

Correspondence and minutes *re* 1st meeting, 23 January 1947.

F.282

Correspondence *re* supply of radiophosphorus, etc., June 1947.

F.283

Correspondence and papers *re* 2nd meeting, 9 January 1948.

F.284

Correspondence and papers, January 1948. Includes Mitchell's 'Draft statement' on 'Radioactive isotopes for therapeutic investigations' prepared for the Panel, with Sir Henry Dale's suggested amendments and the subsequent 'Revised draft statement'.

F.285

Radio Cobalt Panel

This Panel was established at a meeting of the clinical subcommittee in January 1949 (see F.262). Mitchell was Secretary. The Panel was to correlate programmes of research into therapeutic applications of radiocobalt.

Correspondence, 1949; minutes of 1st meeting, 5 May 1949 and 3rd meeting, 8 February 1950.

Protection Subcommittee

The Subcommittee was established in January 1946 to consider 'the protection of radiation workers against hazards to health'. It was chaired by Sir Ernest Rock Carling.

F.286-F.300 General

F.301-F.316 Tolerance Doses Panel

F.286-F.300

General

F.286

Papers *re* 1st meeting, 8 February 1946.

- F.287 Correspondence *re* meeting of Panel appointed to consider standardized record forms, 19 March 1946; manuscript notes on meeting with J.B.S. Haldane to consider the question of research into the genetic effects of radiations, and copy of letter from Haldane to Carling reporting their conclusions.
- F.288 Papers *re* 2nd meeting, 10 May 1946.
- F.289 Correspondence, September 1945 - June 1946, *re* supply of ultra-violet photomicrographic equipment.
- At the second meeting of the subcommittee Mitchell was asked to apply to the MRC for three complete sets of ultra-violet photomicrographic equipment for AERE Harwell and Oxford and Cambridge Universities. Found with this material was earlier correspondence *re* Mitchell's attempts to obtain such equipment for the Cambridge Department of Radiotherapeutics.
- F.290 Papers *re* 3rd meeting, 4 July 1946; brief correspondence.
- F.291 Papers *re* 4th meeting, 23 July 1946. Mitchell presented a 'Note on the safe level for radioactive contaminants in drinking water'.
- F.292 Papers *re* 5th meeting, 11 October 1946. This meeting established the Tolerance Doses Panel (F.301-F.316).
- F.293 Papers *re* 6th meeting, 17 April 1947.
- F.294 Papers *re* 7th meeting, 8 May 1947; agenda of 8th meeting. 3 June 1947.
- F.295 Correspondence and papers, June-November 1947.
- F.296 Papers *re* 9th and 10th Meetings, 29 January and 18 March 1948.
- F.297 Papers *re* 11th and 12th meetings, 10 June and 8 October 1948; letter *re* meeting of Health Records Panel.

- F.298 Papers re 15th, 16th and 17th meetings, 24 November 1949, 30 March and 6 July 1950.
- F.299, F.300 Manuscript and typescript papers found with subcommittee material.
- F.299 'Note on information required for the investigation of the health hazards of radiations and radioactive substances' by Mitchell, 14pp manuscript, 14 March 1946; minutes of meeting of [US] Health Radiation Advisory Committee, 30 May 1946; note on 'Atom Bomb Trials held at Bikini on 21st and 25th July 1946'.
- F.300 'Note on hazards of a single exposure to small doses of gamma radiation' by Mitchell, 4pp typescript plus summary, 13 November 1948; memorandum on 'Levels of radioactivity in water and food that can be permitted under emergency conditions in wartime' by W.F. Bale, 10 November 1950; etc.
- F.301-F.316 Tolerance Doses Panel
- The Tolerance Doses Panel was established at the fifth meeting of the subcommittee in October 1946 (F.292) to prepare recommendations on tolerance doses for ionising radiations.
- F.301 Papers re 2nd meeting, 1 May 1947; minutes of emergency meeting, 3 June 1947; minutes of meeting held at the Radiochemical Centre, Amersham, 'to consider the [US] Springfield Health Programme', 6 June 1947.
- F.302 Papers re 3rd meeting, 20 June 1947.
- F.303 Papers re 4th and 5th meetings, 2 October and 4 November 1947.
- F.304 Papers re 6th meeting, 4 December 1947.
- F.305 Papers re 7th meeting, 29 January 1948. This was an emergency meeting called to consider tolerance doses in drinking water.

- F.306 Papers *re* 8th meeting, 24 February 1948. Includes Mitchell's memorandum on 'Changes in the peripheral blood in relation to the tolerance dose of gamma radiation' presented at the meeting.
- F.307 Manuscript and typescript drafts of Mitchell's memorandum.
- F.308 Papers *re* 10th and 11th meetings, 6 and 27 May 1948; agenda of 12th meeting, 11 June 1948.
- F.309 Papers *re* 13th and 14th meetings, 5 August and 17 September 1948.
- F.310, F.311 Papers *re* 15th meeting, 29 October 1948. 2 folders.
- F.312 Minutes of meeting of geneticists called at request of the Panel, 28 October; 'Note on hazards of a single exposure to small doses of gamma radiation' by Mitchell, 13 November, 4pp typescript plus summary; agenda of 16th meeting, 9 December 1948.
- F.313 Papers NP/P/TD/81-83, 94, 102, probably prepared for meeting in early 1949.
- F.314 Papers *re* 22nd, 24th, 25th and 26th meetings, 11 August 1949, and 16 February, 16 March and 4 May 1950.
- F.315 Papers *re* 27th meeting, 25 May 1950. Includes final minutes of the 1949 Permissible Doses Conference (see F.195-F.197).
- F.316 Papers *re* 28th and 29th meetings, 15 June and 13 July 1950. For agenda of 30th meeting see F.198.

Trace Elements Subcommittee

The Trace Elements Subcommittee was established 'to advise the Medical Research Council ... on matters relating to the procurement and use of stable and radioactive elements for research purposes in medicine and biology'. Mitchell was not a member of the subcommittee but was invited to attend some of its meetings.

- F.317 Minutes of 1st meeting, 25 January 1946, with miscellaneous material found therewith, some dated 1945.
- F.318 Papers *re* 2nd meeting, 24 October 1946, with material found therewith, including minutes of Agricultural Research Council meeting on Tracer Atoms which Mitchell attended as an MRC representative.
- F.319 Papers *re* meetings, 1947; papers *re* meeting, 4 March 1948, with correspondence arising; etc.

Committee on Protection against Ionising Radiations

1949-1973

The material is presented as follows:

- F.320, F.321 General correspondence and papers
- F.322-F.372 Subcommittee on Internal Radiations
- F.373-F.375 Other subcommittees

General correspondence and papers

- F.320, F.321 Miscellaneous typescript and duplicated typescript papers, various dates 1953-69. 2 folders.

Subcommittee on Internal Radiations

Mitchell was chairman of this subcommittee during the 1950s. The work of the full subcommittee is poorly documented, however, and the bulk of the material presented here concerns Mitchell's work on the thorotrast problem in Denmark.

F.322-F.361 Thorotrast

F.362-F.372 General

- F.322-F.361 Thorotrast

Thorotrast, a colloidal solution of thorium dioxide, had been widely used in Denmark for radiological investigations. In 1949, however, it was suggested that thorotrast was the cause of several cases of obscure illnesses in patients through the accumulation of thorium in the body. The Danish investigators at the laboratory of the Finsen Institute requested MRC assistance. Mitchell first visited the Institute in July 1951. He made a number of subsequent visits to Denmark to investigate the thorotrast problem further.

The material chiefly consists of correspondence and papers relating to these visits for the MRC but it also includes a little later material documenting Mitchell's continued interest in the problem.

Further work on thorotrast was undertaken for the World Health Organisation from 1977 (see F.449-F.463).

- F.322 Letter to Mitchell from E. Broda, Physikalisches Institut, Vienna, 22 June 1949 *re* carcinogenic properties of thorotrast.
- F.323-F.325 'Preliminary report on clinical radioactivity measurements' by O.M. Henriques *et al*, Finsen Institute, July 1950. 3 folders.
- F.326-F.333 Visit to the Finsen Institute 6-18 July 1951. See also C.28.
- F.326 Travel arrangements etc. for visit.
- F.327-F.329 Manuscript and typescript data on patients believed to be suffering from thorotrast poisoning. 3 folders.
- F.330-F.333 'Clinical and laboratory studies of the effects of thorotrast. Report on a visit to the Finsen Laboratory, Copenhagen from 6th-18th July, 1951.' This report was prepared for the subcommittee, 24 September.
- F.330 Incomplete typescript draft, heavily corrected.
- F.331, F.332 Duplicated typescript final copy of report, 58pp. 2 folders.
- F.333 'Table of thorotrast patients arranged in order of increasing radioactivity of spleen + liver', July 1951.
- F.334 'Thorotrast poisoning', private report by A.H. Ward (a physicist seconded from AERE Harwell, to join the investigation), August 1951, 32pp plus tables.

- F.335 Correspondence *re* thorotrast investigations, July-December 1951. Most of the correspondence refers specifically to Mitchell's report.
- F.336 Correspondence *re* thorotrast investigations, 1952.
- F.337-F.344 Visit to Denmark, July 1953.

Mitchell helped to organise a confidential Conference on Internal Radioactive Contamination held in Copenhagen. In Denmark he also visited the Finsen Institute and attended a Radiobiology Symposium at Aarhus, 16-18 July.
- F.337 Typescript draft proceedings of confidential Conference.
- F.338-F.344 'Thorotrast 19.7.53'. Contents of Mitchell's folder so inscribed divided into seven for ease of reference.
- F.338 Copy of report of MRC Occupational Health Committee Thorium Subcommittee on 'Clinical investigation of workers exposed to thorium nitrate in the manufacture of incandescent mantles' sent to Mitchell 15 January 1952; 'Report of visit to Veritas gas mantle factory' by A.C. Chamberlain and E.D. Dyson, 21 May 1953.
- F.339 Correspondence 1953, chiefly *re* confidential Conference.
- F.340-F.343 Manuscript and typescript notes on patients. 4 folders.
- F.344 Typescript tables; 7pp typescript draft 'The possibility of determining the original dose in thorotrast-bearing patients' by J. Rundo.
- F.345, F.346 Visit to Finsen Institute, November 1953.

Mitchell advised on the appointment of a new Head of the Laboratory of the Finsen Institute following the death of O.M. Henriques.
- F.345 Correspondence *re* arrangements.

- F.346 Letter from Mitchell to Chairman of the Board of Management of the Institute recording his contribution to a discussion held 23 November.
- F.347 Visit to Sweden and Denmark, March-April 1954
- The visit was made primarily to advise on work on thorotrast at the Finsen Institute.
- Correspondence *re* travel arrangements only.
- F.348 Correspondence and papers *re* thorotrast, 1954-56. Includes papers *re* 1st meeting of the Radium-Thorotrast Panel of the Subcommittee on Internal Radiations, 22 April 1954.
- F.349, F.350 Miscellaneous literature on thorotrast. Latest item is dated 1954 but most of the material dates from the 1930s and 1940s. 2 folders.
- F.351-F.361 Later material on the work of the Finsen Institute and on thorotrast toxicity.
- F.351-F.357 Finsen Laboratory reports 1959-1970. Not a complete sequence. 7 folders.
- F.358 'Thorotrast. A bibliography of its diagnostic use and biological effects', International Atomic Energy Authority, March 1964.
- F.359 'Prevalence of toxic effects - epidermiological observations. Experience in Denmark' by M. Faber and Th. Müller, paper presented at meeting on dosimetry and toxicity of thorotrast, Vienna, October 1965.
- F.360, F.361 3rd International Meeting on the Toxicity of Thorotrast, Finsen Institute, Copenhagen, 25-27 April 1973. Mitchell opened the meeting.
- F.360 Correspondence *re* arrangements; annotated programme.
- F.361 *Proceedings of the Third International Meeting on the Toxicity of Thorotrast*, Danish Atomic Energy Commission, Risø, June 1973.

- F.362-F.372 General
- Subcommittee correspondence and papers relating to matters other than thorotrast.
- F.362, F.363 Correspondence and papers, 1951, chiefly *re* carbon-14 tolerance levels. 2 folders.
- F.364 'Summary of Proceedings of meetings during the year ending 1/5/52' by Mitchell and A.C. Chamberlain, 3pp duplicated typescript; 'Summary of work of Sub-committee on Internal Radiations during year ending 1.5.52' by Mitchell and Chamberlain, 4pp duplicated typescript.
- F.365 Papers *re* 11th meeting of subcommittee, 11 March 1954.
- F.366 Correspondence and papers *re* Joint Meeting of the Working Party on Leukaemia Research and the Subcommittee on Internal Radiations, 23 October 1956. Mitchell chaired the meeting.
- F.367 'The relative hazards of Sr^{90} and Ra^{226} ' by Margaret Hindmarsh *et al*, c1957, 22pp duplicated typescript. With related material on radiostrontium, 1957 and 1960.
- F.368 Papers *re* 30th meeting of subcommittee, 24 September 1959.
- F.369-F.371 Panel to determine the dose to critical organs resulting from the inhalation of radioactive materials during a nuclear reactor accident.
- This Panel was established in 1959. Mitchell was chairman.
- F.369, F.370 Correspondence and papers *re* 1st meeting, 9 November 1959. 2 folders.
- F.371 Report of Special Meeting of Panel at AERE Harwell, 28 March 1960; paper arising from meeting.

F.372 Papers *re* subcommittee meetings, c 1960.

Other subcommittees

F.373 Subcommittee on External Radiations.

Subcommittee papers, 1950s.

F.374 Subcommittee on High Energy Radiation and Heavy Particles.

Papers *re* 4th and 5th meetings, 27 March and 7 May 1952.

F.375 Radiobiology Forum Subcommittee

Subcommittee papers, 1960s.

**Joint MRC/AEA (Atomic Energy Authority) Coordinating Committee
for Radiobiological Research**

1962, 1965

Mitchell agreed to serve when the Committee was established in 1962.

F.376 Correspondence *re* establishment of Committee; correspondence and papers *re* 1st meeting, 5 October 1962.

F.377 Brief correspondence, 1965.

Panel on Atomic Bomb Explosions

1949-57

The Panel on Atomic Bomb Explosions, also known from 1949 as Sir Harold Himsworth's Private Panel, met to consider the biological effects of atomic explosions. In 1957 the Panel was reconstituted as two committees to deal with civil and military nuclear hazards respectively. Mitchell served on the Panel from 1949 and on the Nuclear Hazards (Civil) Committee 1958-63 (F.381-F.385). He was also a member of the Nuclear Hazards (Military) Committee on its establishment (F.386-F.388).

F.378 Correspondence, 1949-51. Includes 1950 exchange *re* the use of unpublished statements by Mitchell in a Ministry of Health memorandum 'Notes on Atomic Energy for Medical Officers'.

F.379 'Report of M.R.C. Observer at Operation Totem' by J.F. Loutit, 1953. The operation was conducted in Australia to study the effects of local fall-out from a tower-burst nuclear device.

F.380 Correspondence and papers, 1954-57 and nd.

Nuclear Hazards (Civil) Committee

1958-63

F.381 Minutes of 1st meeting, 26 June 1958; papers *re* 2nd meeting, 2 June 1959.

F.382 Papers *re* 3rd meeting, 14 September 1959.

F.383 Papers *re* 5th meeting, 8 February 1960.

F.384 Papers *re* 6th meeting, 7 April 1960.

F.385 Correspondence and papers *re* radioactive discharges into the Thames, 1961, 1963.

Nuclear Hazards (Military) Committee

1958

F.386 Minutes of 1st and 2nd meetings, 26 June and 31 July 1958.

F.387 Papers *re* 3rd meeting, 16 October 1958.

F.388 'Notes on Nuclear Warfare for Medical Officers', War Office booklet issued 5 April 1957 and discussed at the third meeting of the Committee.

Radiobiology Committee

1959, 1967, 1969

- F.389 Exchange with Sir Harold Himsworth *re* location for Radiobiological Unit, 1959; 'Note on Research in Radiobiology' by Mitchell, November 1967, 3pp typescript.
- F.390 'Report of the Radiobiology Committee', 1969. Mitchell was an expert witness.
- F.391 Papers on radiobiological research policy in West Germany sent to Mitchell November 1969.

Subcommittee on the Christie Hospital and the Holt Radium Institute, Manchester

1960, 1961

- F.392 Correspondence *re* possible reorganisation of the research laboratories at the Christie Hospital, 1960-61.
- F.393 Papers *re* meeting of the Subcommittee, 10 May 1961.

F.394-F.405

MINISTRY OF HEALTH

1952-60

F.394-F.404 Committee on Radiological Hazards to Patients

F.405 Standing Advisory Committee on Cancer and Radiotherapy

Committee on Radiological Hazards to Patients

1957-1960

This Committee was established at the end of 1956 'to review the present practice in diagnostic radiology and the use of radiotherapy in non-malignant conditions, having regard to the report of the [MRC] Committee on the Hazards to Man of Nuclear and Allied Radiations, and to make recommendations'. It was chaired by Lord Adrian. The Committee presented an Interim Report in 1959 and a Second Report in 1960.

- F.394 Brief correspondence, 1957; summaries of information received in response to a questionnaire on therapeutic radiology, December 1957 - March 1958; 'Memorandum submitted by the Faculty of Radiologists ... ', May 1958.

- F.395 First draft of Interim Report of the Committee, October 1958; revised draft, January 1959; final copy of Interim Report, HMSO, 1959.
- F.396 Correspondence and papers, December 1959 - April 1960. Includes exchange *re* import of thorotrast.
- F.397 Papers *re* committee meetings, 21 April and 15 June 1960. Includes draft of parts of the 'Second Report' of the Committee circulated on 21 April. The Second Report expanded on the findings presented in the Interim Report.
- F.398 'Committee on Radiological Hazards to Patients Internal Radiotherapy Panel Report on genetic hazards from the medical uses of radio-active isotopes in unsealed form' by Mitchell, 23 June 1960. With correspondence arising.
- F.399 Papers *re* committee meetings, 12 and 19 July 1960, held to consider amendments and additions to the draft Second Report.
- F.400-F.403 Final draft of Second Report. 4 folders.
- F.404 Brief correspondence *re* publication of data presented to the Committee, November-December 1960.

Standing Advisory Committee on Cancer and Radiotherapy

1952-55

- F.405 Correspondence 1952-55; papers *re* meeting, 23 November 1953.
- The Committee met to consider the draft of advice to the Minister of Health on the relationship between smoking and lung cancer. Mitchell was not present but expressed his support for the draft's recommendations in a letter to Sir Ernest Rock Carling, the Chairman.

F.406-F.425

**MINISTRY OF SUPPLY DIRECTORATE OF ATOMIC ENERGY/
UNITED KINGDOM ATOMIC ENERGY AUTHORITY (UKAEA)** 1946-86

Mitchell's formal association with the Directorate of Atomic Energy dated from January 1946 when he was appointed a consultant to the 'Tube Alloys' Project on his return from wartime work in Canada. He gave advice on the health and safety aspects of the British nuclear programme and was particularly concerned with determining safe levels of discharge of radioactive effluent from the Atomic Energy Research Establishment (AERE), Harwell. Mitchell's consultancy continued after the responsibility for the civil nuclear programme was assumed by the UKAEA in 1954.

The material is presented as follows:

F.406-F.421 Ministry of Supply Directorate of Atomic Energy

F.406-F.414 General and miscellaneous

F.415-F.417 Tolerance Dose Committee

F.418-F.420 Harwell Project Health Committee

F.421 Isotope Allocation Committee

F.422-F.425 United Kingdom Atomic Energy Authority

Ministry of Supply Directorate of Atomic Energy

1946-55

General and miscellaneous

F.406, F.407

'Atomic Energy'. Contents of Mitchell's envelope so inscribed, divided into two, January-July 1946.

F.406

Correspondence and papers, January-April 1946. Includes exchange re Mitchell's appointment as 'T.A. Consultant'.

F.407

'Note on the safe level for radioactive contaminants in drinking water' by Mitchell, 31 May 1946, 4pp duplicated typescript; 'Note on hazards of a single over-exposure to ionising radiations and radioactive dusts and gases by Mitchell, 15 July 1946, 3pp duplicated typescript with manuscript calculation found attached.

F.408

Correspondence and papers, March-June 1946. Includes material re levels of radioactivity permissible in effluent from AERE Harwell, released into the Thames.

- F.409 Mitchell's manuscript notes on radioactivity in drinking water.
- F.410 Correspondence, July-August 1946.
- F.411, F.412 'Applications of recent advances in nuclear physics to medicine' by Mitchell, *Bibliog.* 24 (1946).

The original report (HI 15) was dated 14 November 1945 but was subsequently amended by Mitchell. In 1946 the Ministry of Supply agreed to allow its publication.
- F.411 Duplicated typescript copy of HI 15 as circulated by the MRC, with letters *re* publication.
- F.412 Copy of report with extensive manuscript annotation and correction by Mitchell.
- F.413 Correspondence and papers, 1947-48.
- F.414 Correspondence and papers, 1952-55, nd. Correspondence, 1954-55, *re* visits to Windscale to discuss the discharge of effluent.

Tolerance Dose Committee

See also D.91.

- F.415, F.416 Papers *re* Committee meeting, 16 July 1947. 2 folders. Include 'Note on effects of radioactive effluent on fish' by Mitchell, 10 July 1947, 2pp duplicated typescript at F.416.
- F.417 Notes on Committee meetings, 26 April and 30 November 1949.

Harwell Project Health Committee

- F.418, F.419 Committee papers, 1947-48. 2 folders.

F.420 Background material.

Isotope Allocation Committee

F.421 Papers *re* Committee meeting, 26 May 1948. Mitchell was not a formal member of the Committee though invited to attend the meeting, probably as a member of the MRC's Advisory Panel for the Allocation of Radioactive Isotopes (F.209-F.237).

United Kingdom Atomic Energy Authority

1956-67, 1986

F.422 Correspondence and papers, 1956, 1959-62. Includes invitation (accepted) to serve on the Health and Safety Research Committee and its Panel on Radiobiological Research.

F.423 Correspondence, 1963-67.

F.424 Letter from G.I.W. Llewelyn, Head of UKAEA Programmes Branch, 28 February 1986, *re* the findings of the Black Inquiry into the impact of discharges from Windscale. Folder also includes copies of the 1955 evidence and the findings of the independent experts (Mitchell, Rock Carling, J.F. Loutit and W.V. Mayneord) on particulate discharges caused by the oxidation of fuel elements.

F.425 Handbook 'Notes on Security for U.K.A.E.A. Consultants', nd.

F.426 NATIONAL CANCER INSTITUTE OF CANADA

1947

Brief correspondence. Mitchell asked for information about the Institute and offered his assistance.

F.427-F.430 NATIONAL RADIUM COMMISSION

1939-49

F.427 'Memorandum ... Radium treatment in war time', 25 October 1939; 14th Annual Report 1943.

F.428, F.429 Material *re* establishment of radiotherapy centre at Addenbrooke's Hospital, Cambridge, received from the National Radium Commission, 1946.

- F.428 Copies of correspondence and set of plans sent to Mitchell, January 1946.
- F.429 'A scheme for the provision of a cancer service for Berkshire, Buckinghamshire, Northamptonshire and Oxfordshire', probably intended to be the model for the Cambridge centre; etc.
- F.430 Miscellaneous correspondence, 1948-49. Includes draft on the 'Cambridge [radiotherapy] centre' for a history of the Commission (which had been dissolved in 1948) sent to Mitchell for comment, 26 October 1949.
- F.431-F.435 **NATIONAL SOCIETY FOR CANCER RELIEF** 1973-81
- Mitchell was a member of the Society's Cambridge Appeal to raise funds for a 25-bed continuing care unit. The Unit (Arthur Rank House) was opened in 1981 and included a 'Professor Joseph Mitchell Day Room' in recognition of his work for the Appeal.
- Correspondence and papers *re* planning, fund-raising and opening ceremony. 5 folders.
- F.436 **1942 CLUB** 1977-86
- Membership of the 1942 Club was open to all clinical professors in the UK.
- Correspondence and papers *re* meetings and membership.
- F.437 **PHARMACEUTICAL SOCIETY OF GREAT BRITAIN** 1970
- Membership.
- F.438 **ROYAL COLLEGE OF PHYSICIANS** 1973-74
- Invitation (accepted) to serve on the Committee on the Supervision of the Ethics of Clinical Research Investigations in Institutions, with background information.
- F.439-F.442 **ROYAL SOCIETY** 1957-84
- Mitchell was elected a Fellow of the Royal Society in 1952 (see A.22). He served on Council, 1955-57.

- F.439 Correspondence, 1957-59.
- F.440 Letter from the Royal Society *re* the Trend Enquiry into the Organisation of Civil Science, 28 September 1962, with Mitchell's replies setting out his views on 'the policy of transfer to University funds of research activities which have been initiated and financed by grants from the Medical Research Council' 4 October, and the similar policy with regard to the Agricultural Research Council, 22 November.
- F.441 Annotated programmes for Royal Society functions attended by Mitchell:

Review lecture on 'Cancer - the elusive enemy' by Sir Michael Woodruff, 2 November 1972.

Discussion meeting on 'The biology of chemical carcinogenesis', 27-28 May 1976.

Discussion meeting on 'Structure of eukaryotic chromosomes and chromatin', 16-17 February 1977.

Discussion meeting on 'Oncogenes : their role in normal and malignant growth', 5-6 December 1984.
- F.442 Correspondence, 1980-84.
- F.443 **SOCIETY OF INDIVIDUALISTS** 1948

Printed material.
- F.444-F.448 **UNITED OXFORD HOSPITALS** 1947-51

Mitchell advised the Oxford Regional Health Board on the development of a radiotherapy facility.
- F.444 Correspondence, 1947, *re* space required for radiotherapy buildings, with architects' 'revised plan' of radiotherapy department and Mitchell's comments.
- F.445 Mitchell's manuscript notes on radiotherapy at Oxford, 28 May 1948; 'Oxford plan' of July 1948; letter from J.D. Cockcroft, 16 November 1948, requesting Mitchell prepare a short memorandum, with draft of Mitchell's memorandum 'The development of radiotherapy, radiobiology and biophysics at Oxford', 3pp typescript.

F.446 Correspondence, 1949, *re* Oxford University decision not to establish a department 'for the study of radiotherapy, radiobiology and biophysics'.

F.447 Miscellaneous correspondence, 1949-50.

F.448 Material *re* new design for radiotherapy unit in Oxford, 1951.

F.449-F.464 **WORLD HEALTH ORGANISATION (WHO)** 1977-1984

F.449-F.458 WHO Scientific Group on the Long-Term Effects of Radium and Thorium in Man

F.459-F.463 WHO Collaborating Center for Thorotrast Studies

F.464 Quality assurance in radiology

See also G.60-G.69, G.71-G.73 and G.78-G.90.

WHO Scientific Group on the Long-Term Effects of Radium and Thorium in Man 1977

Mitchell was a consultant to this project and chaired the Group meeting in Geneva, 12-16 September 1977. The meeting produced a Group report.

F.449 Procedural proposals; lists of working papers to be presented.

F.450 Correspondence *re* working papers; manuscript notes on working papers.

F.451-F.455 Working papers, Not a complete sequence. 5 folders.

F.456 Correspondence and papers *re* Group Report. Includes V. Volodin's draft Foreword.

F.457 Report.

F.458 'Technical documentation to the Report'.

WHO Collaborating Center for Thorotrast Studies

1980-82

The WHO Scientific Group on the Long-Term Effects of Radium and Thorium in Man (F.449-F.458) recommended that WHO support international cooperation in research into the effects of radium and thorium. As a result the Collaborating Center for Thorotrast Studies was established in 1978 with J.D. Abbatt as Director (see H.15). Mitchell had a long-standing interest in the thorotrast problem (see F.322-F.361) and maintained contact with the Center.

- F.459 Correspondence, March-April 1980. Includes first issue of 'Thorotrast Newsletter' edited by Abbatt.
- F.460 Correspondence, May-June 1980.
- F.461 Correspondence, 1980-81. Includes correspondence *re* informal discussion meeting on thorotrast studies, Lake Geneva, Wisconsin, 15 October 1981.
- F.462 'Notes on Informal Meeting Lake Geneva, Wisconsin'.
- F.463 'Thorotrast Newsletter' no.2, April 1982.

Quality Assurance in Radiology

- F.464 Correspondence, 1981 and 1984, *re* WHO programme of quality assurance in radiology. Includes questionnaire on quality assurance completed by Mitchell.
- F.465-F.467 **WORLD ORGANISATION OF UNIVERSITY PROFESSORS OF MEDICAL RADIOLOGY** 1961
- This body was established in 1961 to encourage discussion between academics involved in radiological research and the teaching of radiology.
- Outline of draft statutes; duplicated typescript comments on the statutes. 3 folders.

SECTION G

VISITS AND CONFERENCES

G.1-G.101

Not all of Mitchell's travel and attendance at conferences is documented in this section. Mitchell attended conferences held by a number of societies and organisations, most notably the Anglo-German Medical Society (F.6-F.70), the International Union against Cancer (F.139-F.162), and the Medical Research Council (see F.184-F.208). Further material relating to his visits may be found in Mitchell's notebooks at C.79-C.99.

The presentation is chronological as far as possible. Material relating to invitations either declined or for which there is no evidence of acceptance is placed at the end of the sequence for each year.

Where applicable reference has been made to the bibliography in the Royal Society memoir of Mitchell (A.1) in the form *Bibliog.* ...

1946

- G.1 Discussion meeting on nuclear energy, Royal Infirmary, Glasgow, 29 June.
Brief correspondence only.

Society for Experimental Biology Symposium on Nucleic Acid, Cambridge, 8-12 July.

Letter only. See also D.69.

British-Swiss Medical Conference, September.

Programme for visit to CIBA Laboratories, Basle, 19 September.

1948

- G.2, G.3 British Medical Association Radiology Section Discussion on Radioactive Isotopes, Cambridge, 1 July. Mitchell spoke on 'The radiotherapeutic aspect of radioactive isotopes'.

- G.2 Mitchell's folder containing short report on the meeting, summaries of papers by O.R. Frisch and Mitchell, copy of paper by A.S. McFarlane, and copy of the Discussion.

- G.3 6pp typescript report on the meeting by Mitchell; report on the meeting in the *Lancet*; manuscript notes.

1952

- G.4 Symposium on the use of radioactive isotopes in diagnosis and therapy, ?Cambridge.

Mitchell's 3pp typescript 'Introduction' only.

1955

- G.5-G.9 1st United Nations International Conference on the Peaceful Uses of Atomic Energy, Geneva, 8-20 August. Mitchell was an official adviser for the United Kingdom Atomic Energy Authority and spoke on 'Some problems of radio-therapeutics' (*Bibliog.* 52).

- G.5 Correspondence *re* arrangements; programmes; information for UK delegates.

- G.6 Correspondence *re* Mitchell's paper.

- G.7 Typescript abstract of Mitchell's paper; two different typescript drafts.

- G.8 Abstracts and papers by others.

- G.9 Material *re* UK Medical Exhibition at the conference.

1956

- G.10 Sabbatical leave April-August.

During this period Mitchell made a number of visits to the continent, including attendance at the European Symposium on Chemotherapy of Cancer (F.140-F.145).

'Timetable for sabbatical leave'; brief correspondence *re* visit to Zürich.

Invitations for 1956 and 1957

- G.11 99th Conference, Gesellschaft Deutscher Naturforscher und Ärzte, Hamburg, 23-26 September 1956.
- Discussion meeting on 'The scientist and the hydrogen bomb', Cambridge, 22 May 1957.

1958

- G.12 Imperial Cancer Research Fund Annual Dinner, Royal College of Surgeons, 11 February.
- Brief correspondence only.
- G.13, G.14 2nd United Nations International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1-13 September. Mitchell was a special adviser for the United Kingdom Atomic Energy Authority. See also C.39.
- G.13 Correspondence *re* arrangements and the Mobaltron III Cobalt Therapy Unit exhibited at the Atoms for Peace Exhibition.
- G.14 Abstracts.

Invitations for 1958

- G.15 Symposium on Cancer Chemotherapy Screening Procedures, New York, 13-15 March.
- Conference on Tissue Oxygen Tension and Radiotherapy, Burlington, VT, USA, 16-17 August.
- Agricultural Research Council Conference on the Passage of Fission Products through Food Chains, Atomic Energy Research Establishment (AERE) Harwell, 23-25 September.

1959

G.16, G.17 4th Conference, Deutsches Rotes Kreuz Strahlenschutzärzte, Remscheid-Lennep, 3-5 December. Mitchell spoke on 'Einige Lehren des Windscale-Unfalls'.

G.16 Invitation; draft of Mitchell's contribution.

G.17 Manuscript notes found with the preceding.

Invitation for 1959

G.18 European Training Congress for German Speaking General Practitioners, Montecatini Terme, Italy, 28 May - 6 June.

1962

G.19 2nd Conference, Vereinigung Deutscher Strahlenschutzärzte, Essen, 3-6 January. Mitchell spoke in the session on 'Die Wirkung chemischer Substanzen beim Strahlenschaden'.

Correspondence *re* arrangements; programme.

G.20 Meeting on Radiation Effects [? in mammals], Harrogate. Mitchell was rapporteur of a session on 'Late effects in mammals: irreparable damage other than malignant disease'.

Mitchell's duplicated typescript session Report.

Invitations for 1962

G.21 10th International Congress of Radiology, Montreal, 26 August - 1 September.

Royal Society of Medicine Symposium on the Chemotherapy of Cancer, 5 October.

1963

- G.22 Medical Association for the Prevention of War conference on the Pathogenesis of War, Cambridge, 19-21 July. Mitchell chaired the session on 'Patriotism'.

Programmes; abstract. Both the preliminary programme and abstract have Mitchell's notes on the back.

Invitations for 1963

- G.23 3rd Conference, Vereinigung Deutscher Strahlenschutzärzte, Freiburg, 2-5 January.

4th Conference, Vereinigung Deutscher Strahlenschutzärzte, Würzburg, 24-26 October.

1964

- G.24 1st International Symposium on Radiosensitizers and Radioprotective Drugs, Milan, 23-24 May. Mitchell chaired the Symposium and spoke on 'A review of clinical and laboratory studies on radiosensitizers in radiotherapy' (*Bibliog.* 75).

Letter *re* arrangements; preliminary programme.

Symposium on Current Research in Leukaemia, Cambridge, August 18-21.

Programme.

- G.25-G.32 3rd United Nations International Conference on the Peaceful Uses of Atomic Energy, Geneva, 31 August - 9 September. Mitchell attended as an official observer for the Medical Research Council (MRC). See also C.44.

- G.25 Correspondence *re* arrangements with MRC and UKAEA.

- G.26 Correspondence *re* UK delegation meeting, Risley, Lancs, 29 July; background information for UK delegates.

G.27 Mitchell's lists of papers and abstracts to take to Geneva; abstracts.

G.28 Mitchell's report for the MRC, with correspondence arising; Mitchell's assessment of the value of the conference for UKAEA; miscellaneous correspondence arising.

G.29-G.32 Brochures and information on research. 4 folders.

Invitations for 1965

G.33 4th International Conference on Psychosomatic Aspects of Neoplastic Diseases, Turin, June. Mitchell was unable to attend but sent a 'Message to the participants' (2pp duplicated typescript).

G.34 6th Conference, Vereinigung Deutscher Strahlenschutzärzte, Munich, 28-30 October.

1966

G.35 International Conference on the Use of Computers in Therapeutic Radiology, Cambridge, 14-17 June. Mitchell was joint chairman.

Summary Report issued by British Institute of Radiology (1967); Mitchell's manuscript notes.

G.36 Visit to Paris, 19 September.

Mitchell visited the Hôpital Laennec, Paris, on his way to Zürich and Freiburg.

Correspondence with L. Israel *re* arrangements.

1967

- G.37 48th Deutscher Röntgenkongress, Baden-Baden, 20-23 April. Mitchell spoke on 'Strahlensensibilisierende Substanzen und ihr Einfluss auf die Strahlenempfindlichkeit von Tumoren' (*Bibliog.* 86).

Invitation; correspondence *re* arrangements; manuscript draft summary of Mitchell's contribution.

Invitation for 1967

- G.38 6th Annual Conference, Deutschen Gesellschaft für Biophysik, Ostseebad Travemünde, 21-22 September.

1968

- G.39, G.40 18th British Congress of Obstetrics and Gynaecology, Cambridge, 3-5 July. Mitchell spoke on 'Some recent studies in radiotherapeutics' (*Bibliog.* 87) and replied to the Toast at the Congress Dinner.

- G.39 Correspondence *re* arrangements.

- G.40 Programmes; draft of Mitchell's Reply to the Toast.

Invitations for 1968

- G.41 6th Annual Conference, Gesellschaft für Nuclearmedizin, on Radioisotope in Pharmakinetik und klinischer Biochemie, Wiesbaden, 26-28 September.

Symposium on Fast Neutron Radiotherapy, Services Electronics Research Laboratory, Baldock, Herts, 30 November.

1969

- G.42 British Institute of Radiology Discussion Group meeting on 'Better Radiosensitisers for Radiotherapy?', London, 15 May. Mitchell delivered the summing up.

Brief correspondence; notice of meeting; manuscript notes on proceedings.

10th Conference, Vereinigung Deutscher Strahlenschutzärzte, Würzburg, 24-25 October.

Annotated programme; manuscript notes.

Invitations for 1969

- G.43 2nd L.H. Gray Memorial Conference on Tracks of Charged Particles in Condensed Media, Cambridge, 8-11 April.

2nd International Symposium on Radiosensitizing and Radioprotective Drugs, Rome, 6-8 May.

Symposium on cancer of the breast, Stoke Mandeville Hospital, Bucks, 5 December.

1971

- G.44-G.46 4th United Nations International Conference on the Peaceful Uses of Atomic Energy, Geneva, 6-16 September. Mitchell was an advisor.

- G.44, G.45 Correspondence *re* arrangements. 2 folders.

- G.46 Programmes; information; press-releases.

Invitations for 1971

- G.47 3rd L.H. Gray Memorial Conference on Radiation Effects and the Mitotic Cycle, Manchester, 5-8 January.
- 2nd Congress, Europäischen Gesellschaft für Radiologie, Amsterdam, 14-18 June.
- G.48, G.49 1st Cambridge Ophthalmological (Perrers Taylor Memorial) Symposium on Glaucoma, 13-14 September. Mitchell was invited and was involved in preparations for the meeting, originally scheduled for 22-23 September. He withdrew after the change of date. 2 folders.

Invitations for 1973, 1975

- G.50 Joint Congress, Deutschen und Österreichischen Röntgengesellschaft, Vienna, 12-14 April 1973.
- 3rd Cambridge Ophthalmological (Perrers Taylor Memorial) Symposium on Strabismus, 3-4 September 1973.
- Grupo Europeo de Curieterapia Conference, Costa Brava, 31 May - 1 June 1975.

1976

- G.51 6th Congress of the 'Int[ernational] Primatological Soc[iety]', Cambridge, August.
- Mitchell's manuscript notes on lectures.

Invitation for 1976

- G.52 7th L.H. Gray Memorial Conference on Medical Images: Formation, Perception and Measurement, Leeds, 13-15 April.

1977

- G.53 Conference on Advances in Cancer Chemotherapy, Cambridge, 7 May.
Programme; Mitchell's manuscript notes on lectures.
- G.54 Deutscher Röntgenkongress, Münster, 18-21 May.
Brief correspondence only.
- G.55-G.57 8th L.H. Gray Memorial Conference on Hypoxic Cell Sensitizers in
Radiobiology and Radiotherapy, Cambridge, 5-9 September. Mitchell
chaired the opening session.
- G.55 Correspondence *re* arrangements; programme; circular.
- G.56 Handbook of abstracts, annotated by Mitchell; annotated abstracts not
included in the handbook.
- G.57 Introductory remarks by Mitchell; manuscript draft of recollections of L.H.
Gray; manuscript notes on lectures.

Invitations for 1977

- G.58 Meeting on Thorotrast Toxicity, Lisbon, 28 June - 2 July.

International Society for Oxygen Transport to Tissue Meeting, Cambridge,
4-7 July.

7th Cambridge Ophthalmological Symposium on Pigmented Tumours, 8-9
September.

Royal Society of Medicine Study Course in Clinical Oncology, London, 12-16
September.

1978

- G.59 Deutscher Röntgenkongress, Bonn, 3-6 May.

Correspondence with organisers.
- G.60-G.69 World Health Organisation (WHO) Symposium on Optimization of Radiotherapy particularly for Developing Countries, Cambridge, 11-15 September. Mitchell chaired the Symposium and presented a paper on costs of treatment. He also helped compile the Symposium Report.
- G.60-G.62 Correspondence and notes *re* arrangements and possible participants. 3 folders.
- G.63-G.66 Correspondence with invitees (arranged alphabetically). 4 folders.
- G.67 Manuscript drafts of Mitchell's 'Introduction' paper and 'Note on a comparison of the costs of high-energy radiotherapy with different types of apparatus'.
- G.68 Mitchell's manuscript notes on lectures and on 'General recommendations'.
- G.69 Copy of Symposium Report (published 1980).

1979

- G.70 4th Congress, Societatis Radiologie Europaeae, Hamburg, 4-8 September.

Receipt for fee only. Not otherwise documented.
- 9th L.H. Gray Memorial Conference on Quantitation of Tumour Response: A critical appraisal, Cambridge, 11-14 September.

First circular; brief correspondence with organisers.

G.71-G.73 International Atomic Energy Agency Research Coordination Meeting on Improvement in Radiotherapy of Cancer using Modifiers of Radiosensitivity in Cells, Cambridge, 26-29 November. Mitchell attended as a World Health Organisation representative.

G.71 Annotated programme; Mitchell's manuscript notes on proceedings.

G.72, G.73 Reports on research projects presented at the Meeting. 2 folders.

1980

G.74 Symposium in Honour of Dr Frank Ellis on Some Aspects of the Biological Basis and the Clinical Effects of different Radiotherapeutic Practices, Oxford, 18 September.

Programme; Mitchell's manuscript notes on proceedings.

G.75 61st Deutscher Röntgenkongress, Köln, 15-17 May.

Correspondence *re* arrangements.

G.76 Visits to Münster and Vienna, September, October.

Two letters only.

1981

G.77 15th International Congress of Radiology, Brussels, 24 June - 1 July. Mitchell presented three papers with I. Brown and R.N. Carpenter on 'Potential radiosensitizers: quantum mechanical consideration of structural - activity relationships', 'Attempts to develop radioactive anti-cancer drugs' and 'The *in vitro* selective concentration of an [¹²⁵I]-iodinated compound into human tumour cells'. The second two papers were published (*Bibliog.* 109, 110).

Programme; circular; drafts of Mitchell, Brown and Carpenter's second and third papers.

1982

- G.78-G.90 WHO Symposium on the Biological Individualisation of Cancer Radiotherapy, Jülich, FRG, 26-30 April. This Symposium followed-up that held in Cambridge in 1978 (G.62-G.70). Mitchell was chairman, and presented the introductory paper 'Research on the biological individualisation of cancer radiotherapy'.
- G.78-G.80 Correspondence and notes *re* arrangements and possible participants. 3 folders.
- G.81-G.83 Correspondence with invitees (arranged alphabetically). 3 folders.
- G.84 Typescript copy of Mitchell's contribution.
- G.85-G.87 Mitchell's manuscript notes on proceedings, paginated 1-117. 3 folders.
- G.88 Correspondence arising.
- G.89 Material *re* return visits to Jülich in connection with the Symposium Report, 8-14 July and 9-14 September.
- G.90 Typescript draft of Report, 27 November 1982.
- G.91 Sands Cox Medical Society AGM and Scientific Meeting, Birmingham, 26 June.

Scientific programme; papers for AGM.
- G.92 Ludwig Institute for Cancer Research Workshop on Monoclonal Antibodies and Human Solid Tumours, Cambridge, 22-24 September.

Brief correspondence *re* arrangements; programme; Mitchell's manuscript notes on proceedings.

1983

- G.93 Meeting on Molecular Biology and Clinical Medicine, Cambridge, 26 March.
Programme; manuscript notes on proceedings.
- G.94 7th International Congress of Radiation Research, Amsterdam, 3-8 July.
Congress notebook with Mitchell's manuscript notes on proceedings.
- G.95 Society for Drug Research Symposium on Current Trends in Cancer
Chemotherapy, London, 14 July.
Brief correspondence; programme; Mitchell's manuscript notes on
proceedings.
- G.96 Satellite Meeting on Alkaline Phosphatases, Umeå, Sweden, 16-17
September. Mitchell gave a paper on 'Radioactive derivatives of 2-methyl-1,
4 naphthoquinol bis (diphosphate salt) as anti-cancer drugs with high LET
radiations' with I. Brown and R.N. Carpenter (*Bibliog.* 116).
Letter; programme. See E.101 for text of paper.

1984

- G.97, G.98 25th Annual Conference, Vereinigung Deutscher Strahlenschutzärzte,
Freiburg, 15-16 June. Mitchell presented a paper on 'Die Entwicklung neuer
radioaktiver Derivate von 2-Methyl-1, 4-naphthochinol bis (Diphosphat Salz)
als Pharmaka mit Strahlen von hohem LET gegen den Krebs', with I. Brown
and R.N. Carpenter (*Bibliog.* 117).
- G.97 Programme; correspondence arising.
- G.98 Typescript draft of paper with manuscript corrections. See E.102 for 'final
copy'.

1985

- G.99 Satellite Meeting on Recent Developments in Alkaline Phosphatase Research, Antwerp, 14-15 September.

Programme; letter *re* arrangements.

Invitation for 1986

- G.100 27th Annual Conference, Vereinigung Deutscher Strahlenschutzärzte, Münster, 23-24 May.

Nd

- G.101 British Council on Rehabilitation of the Disabled Conference on From Disability to Work, 4 July. Mitchell was chairman.

Typescript of Mitchell's 'Introductory Remarks'.

SECTION H

CORRESPONDENCE

H.1-H.500

H.1-H.424

GENERAL SCIENTIFIC CORRESPONDENCE

Correspondence with individuals. In alphabetical order with an indication of information of particular biographical, historical or scientific interest.

H.425-H.475

SHORTER SCIENTIFIC CORRESPONDENCE

In chronological order.

H.476-H.500

REFERENCES AND APPOINTMENTS

GENERAL SCIENTIFIC CORRESPONDENCE

H.1-H.18 **Abbatt, J.D.** 1956-83

Abbatt was Chief Medical Officer with the British General Electric Company 1957-62. Correspondence, 1960-62, chiefly concerns a study with E.D. Allen-Price, Medical Officer of Health in Tavistock, on the relationship between cancer and levels of radioactivity in water supplies in West Devon. Mitchell acted as informal co-ordinator of the study. His correspondence with Allen-Price is at H.21-H.34.

H.1 1956. Includes Abbatt's 'Memorandum on certain aspects of the hazards to Man of long term low dose irradiation', July.

H.2 1957. Leukaemia.

H.3 1959. Leukaemia.

H.4 1960 January-June. Radioactivity in water supplies.

H.5 1960 July-October. Radioactivity in water supplies.

H.6 1960 November-December.

H.7 1961 February-June. Radioactivity in water supplies.

H.8 1961 July-December. Radioactivity in water supplies.

H.9 1962 February-June.

H.10 1962 July-December.

H.11	1963. Appointments.	
H.12	1964. Appointments.	
H.13	1965. Appointments.	
H.14	1966-73.	
H.15	1974-78. Includes correspondence <i>re</i> appointment of Abbatt as co-ordinator of the WHO Scientific Group on the Long-Term Effects of Radium and Thorium in Man (see F.449-F.458) and, later, Director of the WHO Collaborating Center for Thorotrast Studies (F.459-F.463).	
H.16	1979 (1).	
H.17	1979 (2). Thorotrast.	
H.18	1980-83.	
H.19	Adrian, E.D.	1959-75
H.20	Alderson, T.	1970-73
H.21-H.34	Allen-Price, E.D.	1959-66
	The correspondence chiefly relates to a study with J.D. Abbatt on the relationship between cancer and levels of radioactivity in water supplies in West Devon. See H.1-H.18.	
H.21	1959.	

- H.22 1960 February-May. Includes 'Social and Environmental Survey of Cancer and Water Supplies in West Devon' by J.D. Abbatt.
- H.23 1960 June-August.
- H.24 1960 September.
- H.25 1960 October-December. Includes draft of short feature on the study to be broadcast by BBC Radio West of England Home Service.
- H.26 1961 January-March.
- H.27 1961 April-June.
- H.28 1961 July, September. Includes 'Suggestions for a prospective survey into the alleged association between cancer and drinking water' by Abbatt and A.J. Lea.
- H.29 1961 October-December. Includes 'Outline of proposals for a prospective survey to be made to Joseph Rowntree Memorial Trust', annotated by Mitchell.
- H.30 1962.
- H.31 1963.
- H.32 1964. Includes papers on the 'Tamar Valley Project', established to study disease in relation to the environment in which it occurred.
- H.33 1965.

- H.34 1966. Includes 'Cancer provocative domestic water supply in West Devon. A twenty year retrospective survey' by Allen-Price and P.B. Fletcher, unpublished at Allen-Price's death on 5 February.
- H.35-H.42 **Allen-Williams, D.J.F.** 1945-62
Allen-Williams was a research student in the Department of Radiotherapeutics, 1946-53, and Physicist with special reference to the application of electronics to radiotherapy, 1953-55.
- H.35 1945-46.
- H.36 1947-48. Includes Mitchell's manuscript notes on progress of Allen-Williams' research.
- H.37 1949-50.
- H.38 1951-52
- H.39 1953. Appointment; synchrotron.
- H.40 1954. Chiefly re synchrotron.
- H.41 1955-57. Appointments.
- H.42 1959, 1962.
- H.43 **Alpher, T.** various dates 1958-71
- H.44 **Ambrosen, J.P.** 1954
Visit to Cambridge.

- H.45-H.51 **Appleyard, R.K.** 1946-68, 1977
- Appleyard was a research student in the Department of Radiotherapeutics 1946-49. He later made his career in scientific administration, serving as Executive Secretary of the European Molecular Biology Organisation, 1965-73.
- Seven folders covering research, recommendations and career.
- H.45 1946-47.
- H.46 1948.
- H.47 1949. Includes 'Report on research carried out [...] October 1947 - September 1949 by R.K. Appleyard', 6pp typescript.
- H.48 1950-51. Includes draft of 'The stopping power of liquid water' by Appleyard, sent to Mitchell for comment.
- H.49 1952-55.
- H.50 1956-62.
- H.51 1964-68, 1977. Includes 'Euratom's Biology Programme 1961-1964 Report and Perspectives' by Appleyard, Director of Biology Division.
- H.52 **Bach, S.J.** 1951-53, 1957
- Contents of folder labelled 'Dr S.J. Bach, Department of Physiology, University of Bristol'.
- Includes correspondence *re* collaborative work on arginase.
- H.53 **Backer, O.G.** 1953-54
- H.54 **Bacq, Z.M.** 1960, 1968-70
- Chiefly *re* visit to Cambridge, November 1969.

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| H.55 | Bane, H.N. | 1954-55 |
| | <i>Re</i> experiments with synkavit. | |
| H.55A | Barrett, A.M. | 1950-62 |
| H.56 | Barron, D.H. | 1947-68, 1985 |
| | Includes correspondence <i>re</i> visits. | |
| H.57-H.62 | Bell, G.D.H. | 1951-67 |
| | Bell was Director of the Plant Breeding Institute, Cambridge. The correspondence concerns collaboration between the Institute and Department of Radiotherapeutics on chemical substances inducing mutations in plants. This work was funded by the Nuffield Foundation, 1957-62. | |
| H.57 | 1951-53. Possible collaborative research. | |
| H.58 | 1955 April-July. Includes memoranda on 'co-operative work to be undertaken', submitted to Nuffield Foundation. | |
| H.59 | 1955 August-December. | |
| H.60 | 1956. | |
| H.61 | 1957-59. Includes 'Report of Visit to Centres of Mutation Research in Norway, Denmark, Holland, Belgium, France, East and West Germany, by P.S. Hudson and R.N.H. Whitehouse' of the Plant Breeding Institute. | |
| H.62 | 1960-67. Includes 'Report to Nuffield Foundation. Induced Mutations 1957-62' by A.D. McKelvie. | |

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| H.63 | Bennhold, H-H. | 1960-66 |
| | Includes correspondence <i>re</i> Anglo-German Medical Society. | |
| H.64 | Bergel, F. | various dates 1943-67 |
| H.65-H.67 | Berkman, A.T. | various dates 1951-82 |
| | Chiefly <i>re</i> visits. | |
| H.65 | 1951. | |
| H.66 | 1956-59. | |
| H.67 | 1960-72, 1982. | |
| H.68 | Bleehen, N.M. | 1974-75, 1979, 1983 |
| | Bleehen was Professor of Clinical Oncology at Cambridge from 1975. | |
| H.69 | Boag, J.W. | various dates 1951-68 |
| H.70-H.77 | Bora, K.C. | 1952-82 |
| | Bora was an Indian research student in the Department of Radiotherapeutics supervised by Mitchell, 1952-54. | |
| | Eight folders covering research and career. | |
| H.70 | 1952-53. | |
| H.71 | 1954-55. Includes drafts sent to Mitchell for comment. | |

- H.72 1956-58. Correspondence, 1958, chiefly *re* facilities for irradiating plant materials.
- H.73 1960-62.
- H.74 1963-65. Chiefly *re* visit.
- H.75 1966. Visit.
- H.76 1967. Appointments.
- H.77 1970-82. Includes note on the work of K.C. Bora at Cambridge written after his death in 1982.
- H.78 **Bottomley, J.** 1954-64
Bottomley was a doctor at Addenbrooke's Hospital.
Includes correspondence *re* treatment of cancer of the cervix. See also H.230.
- H.79-H.84 **Braams, R.** 1949-64
Braams was a research student in the Department of Radiotherapeutics, 1950-52.
Six folders covering research and career.
- H.79 1949-51.
- H.80 1952.
- H.81 1953-55.

H.82	1956. Includes draft of 'Some physical measurements with 30 MeV _p x-rays' by Braams, sent to Mitchell for submission to <i>Physics in Medicine and Biology</i> .	
H.83	1957. Chiefly re Braams's draft.	
H.84	1959-64.	
H.85	Brock, J.F.	1960-61, 1973
H.86, H.87	Brues, A.M.	various dates 1947-69
H.86	1947. Visit to Cambridge.	
H.87	1951-69.	
H.88, H.89	Butterfield, W.J.H.	1952-53, 1975-85
	Butterfield succeeded Mitchell as Regius Professor of Physic in 1975.	
H.88	1952-53.	
H.89	1975-85	
H.90	Cade, S.A.	1956-57, 1963
H.91	Cantor, D.	1980-81
	History of radiobiology.	

H.92-H.94	Carling, E.R.	1946-47, 1954-60
H.92	1946-47.	
H.93	1954-56.	
H.94	1957-60.	
H.95	Carlisle, W.H.	various dates 1957-70
H.96-H.98	Caspersson, T.O.	various dates 1945-85
H.96	1945-69.	
H.97	1974.	
H.98	1985.	
H.99	Chalmers, T.M.	various dates 1967-84 Chalmers was Dean of the Cambridge University Clinical School to 1979.
H.100-H.102	Chang, F.M.	1947-51, 1957-67 Chang was a research student in the Department of Radiotherapeutics, 1948-49.
H.100	1947-48.	
H.101	1949-51.	Chiefly re Chang's efforts to return to China during the civil war.

- H.102 1957-67.
- H.103 Chassagne, D. 1972
Questionnaire on 'Place of computer dosimetry in gynaecological intracavitary therapy' and correspondence arising.
- H.104 Cheeseman, I.C. 1951
- H.105 Christensen, B.C. 1954-61
- H.106 Citron, A. 1953
Tolerance levels for fast and thermal neutrons.
- H.107-H.109 Cockcroft, J.D. 1946-66
- H.107 1946-47, 1952. Includes letter to Cockcroft, 3 January 1947, 'concerning the neutron generator for work on the biological effect of fast neutrons'.
- H.108 1958, 1960.
- H.109 1966. A note by Mitchell's secretary records 'Sir John and Lady Cockcroft were personal friends of Prof. and Mrs. Mitchell and this correspondence is regarding the retirement house they were hoping to build in the grounds of Professor and Mrs. Mitchell's house at Thorndyke, Huntingdon Road [Cambridge]. Sadly, Sir John Cockcroft died before the scheme could come to fruition ... '
- H.110-H.112 Cole, L.B. 1957-74
Cole was Senior Physician at Addenbrooke's Hospital, 1948-63, and Dean of the Cambridge University Postgraduate Medical School, 1957-65.
- H.110 1957-61.

H.111	1962.	
H.112	1963-74.	
H.113	Court-Brown, W.M. <i>Re spondylitis survey.</i>	1958, 1960
H.114	Craigie, J. Supplies from Imperial Cancer Research Fund's Central Tumour Bank.	1957, 1962
H.115	Cronkite, E.P.	1954-59
H.116, H.117	Curtis, F. Goat serum treatment for patients with advanced cancer.	1960
H.116	1960.	
H.117	1961-64.	
H.118	d'Abreu, A.L.	various dates 1960-68
H.119	Dale, H.H.	1953, 1963
H.120	Davies, E.B.	1958-61
H.121	Dean, H.R. Dean was Professor of Pathology at Cambridge, 1922-61.	1957-61

- H.122 **Dendy, P.P.** various dates 1968-83
Dendy was a member of the Department of Radiotherapeutics, 1959-75.
- H.123, H.124 **Doll, W.R.S.** various dates 1954-75
- H.123 1954-63.
- H.124 1966-75.
- H.125 **Druckrey, H.** 1961-80
Includes correspondence *re* Mitchell's visits to Freiburg.
- H.126 **Ehrenberg, L.** 1973
Includes 'Influence of ascorbate on the radiosensitivity of *E. coli* protected by thiols' by Ehrenberg sent to Mitchell for comment, and letter from Mitchell, 25 October 1973, summarising developments in radiotherapy with particular reference to the work of his department.
- H.127-H.129 **Ellis, F.** 1951-72, nd.
- H.127 1951-53. Includes 'A new design for a unit using a large quantity of Co⁶⁰ for radiotherapy' by Ellis sent to Mitchell for comment, 2 June 1951.
- H.128 1956-57.
- H.129 1959-72, nd.
- H.130 **Evans, R.D.** 1947-56
Chiefly *re* visit by Evans and J.G. Hamilton to Cambridge, 1947.

H.131, H.132	Faber, M.	1954-81
	Faber became Director of the Finsen Laboratory, Copenhagen, in 1954.	
H.131	1954-59.	
H.132	1960-81.	
H.133	Farber, S.	1960-61, 1970
H.134	Feinendegen, L.E.	1982-84
H.135, H.136	Fell, H.B.	1948, 1955, 1959-69
H.135	1948, 1955, 1959-60.	
H.136	1961-69.	
H.137	Finkel, M.P.	1957-61
H.138	Flemming, K.	1966-74
	Visits.	
H.139	Florey, H.W.	1957-60
H.140	Forssberg, A.	1955, 1960, 1970
H.141	Francis, T.	1954-56
	Includes correspondence <i>re</i> treatment of lung cancer.	

- H.142 Franke, H.D. various dates 1966-85
- H.143 Fraser, G.R. 1957-62, 1974
Chiefly *re* career.
- H.144-H.149 Freundlich, H.F. 1945-71
Freundlich first worked with Mitchell in Canada, 1944-45, where he headed the Electronics Group at Chalk River. He worked in the Department of Radiotherapeutics as Physicist with special reference to the application of electronics to radiotherapy, 1946-51.
Six folders covering career and research.
- H.144 1945-47. Chiefly *re* appointment.
- H.145 1946-48. Mitchell's manuscript and typescript notes on discussions with Freundlich on research and administration.
- H.146 1948-49. Includes 'Memo. to Professor J.S. Mitchell' on $^{106}_{44}\text{Ru}$ and 'Preliminary report on beta applicators' by Freundlich, 21 June 1948.
- H.147 1951-55. Correspondence 1955 *re* iridium cervix applicator.
- H.148 1957-61.
- H.149 1962-64, 1969-71.
- H.150 Gairdner, D.M.T. 1955-68
- H.151 Garattini, S. 1958, 1960, 1978

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| H.152 | Garsou, J. | 1955, 1973 |
| | Correspondence, 1973 <i>re</i> maximum permissible concentration of radon in drinking water. | |
| H.153 | Gray, L.H. | 1953-65 |
| H.154-H.156 | Gresham, G.A. | 1956-77, 1980 |
| | Gresham was a member of the Cambridge University Department of Pathology from 1953. | |
| H.154 | 1956, 1960-62. | |
| H.155 | 1964-65, 1968-70. | |
| H.156 | 1971-77, 1980. | |
| H.157 | Guillebaud, C.W. | various dates 1953-68 |
| H.158 | Gunz, F.W. | 1952-67 |
| | Gunz was Saltwell Research Scholar in the Department of Radiotherapeutics, 1946-1949. | |
| H.159 | Haage, H. | 1960 |
| | Visit to Cambridge. | |

H.160, H.161	Haddow, A.	1949-67
H.160	1949-54. Includes material <i>re</i> conference on biological hazards of atomic energy, London, 20-21 October 1950. Haddow was chairman.	
H.161	1956-67.	
H.162, H.163	Halnan, K.E.	1957-73, 1978
H.162	1957-70.	
H.163	1972-73, 1978.	
H.164, H.165	Henriques, O.M.	1948, 1951-53
	Henriques was Director of the Finsen Laboratory, Copenhagen, until 1954. Most of the correspondence concerns the thorotrast problem in Denmark. Mitchell made a number of visits to the Finsen Laboratory to advise on this, 1951-54.	
H.164	1948.	
H.165	1951-53. Chiefly <i>re</i> visits to Denmark by Mitchell.	
H.166-H.180	Hevesy, G.C. de	1946-70, nd
H.166	1946-55.	
H.167	1956. Chiefly <i>re</i> 'Atoms for Peace' award.	
H.168	1957-59.	

- H.169 1960. Chiefly *re* H.E. Durham Fund Lectures delivered by Hevesy, Cambridge, October.
- H.170 1961-62.
- H.171 1963.
- H.172 1964 January-April. Chiefly *re* Cambridge University Honorary Sc.D.
- H.173 1964 May. Honorary Sc.D.
- H.174 1964 June. Honorary Sc.D.
- H.175 1964 August-December.
- H.176 1965 January-April.
- H.177 1965 May-December. Chiefly *re* Eightieth Birthday celebrations.
- H.178 1966.
- H.179 1967-70.
- H.180 Nd. Chiefly biographical material.
- H.181-H.183 **Hollaender, A.** 1950-69, 1974
- H.181 1950-55.

- H.182 1956-57.
- H.183 1958-69, 1974. Correspondence 1969 *re* visit to Cambridge.
- H.184 **Holmes, B.E.** 1945, nd.
Holmes was a member of the Department of Radiotherapeutics.
Includes 'the notes I made for my talk in the Biochem. Lab.' by Holmes, sent to Mitchell for information, nd.
- H.185 **Hultberg, S.** 1954-65
Chiefly *re* Mitchell's visits to Radiumhemmet, Karolinska Sjukhuset, Stockholm.
- H.186 **Iverson, S.** 1956-57
- H.187 **Jacobson, L.O.** 1957-61, 1975-76
- H.188 **Keilin, D.** 1960, 1963, 1965
- H.189, H.190 **Kennard, D.W.** 1959-75
Kennard worked in the Cambridge Medical Psychology Laboratory, 1960-63.
Two folders covering research and career.
- H.189 1959-64.
- H.190 1966-75.
- H.191 **Kennaway, E.L.** 1942, 1956-57

- H.192 **Knox (née LeMay), M.L.** 1949-51, 1973, nd
Knox worked in the Department of Radiotherapeutics, 1950.
- H.193 **Kodicek, E.** 1956, 1963, 1969-74
Correspondence, 1970, *re* effect of vitamin K on radiosensitisation.
- H.194, H.195 **Koller, P.C.** 1943-46, 1958
- H.194 1943-46. Includes 'Chromosome behaviour and nuclear acid synthesis in tumour cells' by Koller sent to Mitchell for comment, January 1943.
- H.195 1958. 'Rough draft' of 'The biological basis of radiotherapy' by Koller sent to Mitchell for comment.
- H.196 **Kreyberg, L.** 1955-65
- H.197-H.199 **Krishnamurthi, S.** 1960-74
Correspondence *re* trials with radiosensitizers.
- H.197 1960-67.
- H.198 1969.
- H.199 1970-74.

H.200-H.205 **Ladner, H-A.** 1967-85

Ladner was a Visiting Scholar in the Department of Radiotherapeutics, 1968-69. See D.294-D.303.

Six folders chiefly covering visits to Freiburg by Mitchell.

H.200 1967-68.

H.201 1969.

H.202 1970-73.

H.203 1974-77.

H.204 1978-79.

H.205 1980-85.

H.206-H.211 **Langendorff, H.** 1956-76, nd

Six folders chiefly covering visits to Freiburg by Mitchell.

H.206 1956-60.

H.207 1961-63.

H.208 1964-66.

H.209 1967-68.

H.210 1969-70.

- H.211 1971-76, nd.
- H.212 Larionov, L.F. 1956-61
- H.213-H.217 Lea, D.E. 1939, 1946-48, 1956, 1963
- Lea was Prohit Student at the Strangeways Research Laboratory, 1942-46, before appointment as Reader in Radiobiology in the Department of Radiotherapeutics. He died in June 1947 at the age of 37.
- H.213 1939. Includes exchange *re* results of ionisation measurements.
- H.214 1946. Chiefly *re* appointment. Also includes Mitchell's manuscript notes on discussions with Lea *re* research.
- H.214A 1946-47. Material *re* building, equipment etc of radiotherapeutic facilities at Cambridge.
- H.215 1947 January-February. Chiefly *re* Lea's application for Cambridge Sc.D.
- H.216 1947 March-July. Includes draft of Mitchell's obituary of Lea for *Nature*, 3pp typescript.
- H.217 1948, 1956, 1963.
- H.218-H.220 Lehmann, H. 1960, 1963-77
- Lehmann was Professor of Clinical Biochemistry at Cambridge, 1967-77.
- H.218 1960, 1963-66.
- H.219 1967-70.

- H.220 1971-77.
- H.221 **Leigh-Smith, P.** 1949, 1957, 1965
Chiefly *re* Pontificia Academia Scientiarum meeting, Rome, June 1949.
- H.222 **Lewis, W.B.** 1972-74
- H.223-H.229 **Lisco, H.** 1948-76
Seven folders covering research, career and visits.
- H.223 1948-49. *Re* planned visit to Cambridge.
- H.224 1950-53.
- H.225 1954. Visit to Cambridge. Lisco worked with D.B. Cater on a project 'to investigate the effects of growth hormone on the latent period of radiation carcinogenesis.'
- H.226 1955-56. Chiefly correspondence arising from research project with Cater.
- H.227 1957-58. Includes correspondence *re* telephone conversation, 5 June 1958, between Mitchell and D. Hammarskjöld, UN Secretary General, *re* radiation hazards. Hammarskjöld had been referred to Mitchell for advice by Lisco, a member of the UN Advisory Committee on Atomic Affairs.
- H.228 1959-63.
- H.229 1965-69, 1976.

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| H.230 | Lloyd, O. | various dates 1949-67 |
| | Lloyd was a doctor at Addenbrooke's Hospital. | |
| | Includes 1954-55 correspondence <i>re</i> 'altering the routine treatment of carcinoma of the cervix'. See also H.78. | |
| H.231-H.239 | Looney, W.B. | 1953-85 |
| | Looney was an American Research Fellow in the Department of Radiotherapeutics, 1957-59. | |
| | Nine folders covering research, career and visits. | |
| H.231 | 1953-56. Includes correspondence <i>re</i> thorotrast work. | |
| H.232 | 1957. | |
| H.233 | 1958. Includes correspondence <i>re</i> thorotrast. | |
| H.234 | 1959. | |
| H.235 | 1960-61. | |
| H.236 | 1962-65. | |
| H.237 | 1966-68. Includes correspondence <i>re</i> visit to Cambridge 1966. | |
| H.238 | 1970-77. Chiefly <i>re</i> visits. | |
| H.239 | 1980-85. | |
| H.240 | Loustalot, P. | 1957, 1963-64 |

- H.241 **Low-Beer, B.V.A.** 1950-56
- Includes exchange *re* questionnaire on therapeutic uses of radiophosphorus sent to Mitchell, February 1953.
- H.242-H.245 **McCance, R.A.** 1957-62, 1969-70
- McCance was Professor of Experimental Medicine at Cambridge, 1945-67.
- H.242 1957-58. *Re* future of Department of Experimental Medicine.
- H.243 1959. Future of Department; artificial kidney unit.
- H.244 1960.
- H.245 1961-62, 1969-70.
- H.246 **Magnus, I.A.** 1958, 1960, 1972
- H.247 **Maqsood, M.** 1960
- H.248-H.250 **Marks, J.** 1956-74
- Marks was Director of Clinical Research at Roche Products Ltd, and honorary clinical research assistant in the Radiotherapeutic Centre from 1965.
- H.248 1956, 1959. Includes 'Draft - 26/11/56 The relief of chronic pain' ?by Marks.
- H.249 1963-65. Chiefly *re* appointment.
- H.250 1966-74. Includes correspondence *re* synkavit as a radiosensitiser, 1969.

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| H.251, H.252 | Marrian, D.H. | 1960-66 |
| | Marrian was Assistant Director of Research in the Department of Radiotherapeutics. | |
| | The bulk of the material is Marrian's correspondence with colleagues other than Mitchell for the period May 1963 - January 1964. | |
| H.251 | 1960, 1963 May-July. | |
| H.252 | 1963 August - 1964, 1966. | |
| | Includes material <i>re</i> discussion 'about the future of TRA', September 1963. | |
| H.253-H.259 | Marsden, E. | 1957-68 |
| H.253 | 1957-60. | |
| H.254 | 1961 January-July. Visit to Cambridge. | |
| H.255 | 1961 August-December. Chiefly <i>re</i> radioactivity of soil including material <i>re</i> 'Proposed expedition to the island of Niue'. | |
| H.256 | 1962. Chiefly <i>re</i> radioactivity of soil and Niue expedition. | |
| H.257 | 1963. Niue expedition. | |
| H.258 | 1964-65. Includes 'Incidence and possible significance of inhaled or ingested polonium' by Marsden sent to Mitchell for comment. | |
| H.259 | 1966-68. Includes 'Milk as a deterrent of stomach cancer' by Marsden sent to Mitchell for comment. | |
| H.260 | Martin, L.C. | 1959-60, 1963, 1967 |

- H.261 *re* **May, A.N.** 1947
- In 1946 May was sentenced to ten years penal servitude for a breach of the Official Secrets Act in connection with the atomic energy project. The material relates to the campaign organised by N. Kemmer to have the case reviewed.
- H.261A **May & Baker Ltd** 1944-52
- Chiefly *re* supply of drugs and support of research assistant.
- H.262-H.265 **Mayneord, W.V.** 1945-80
- H.262 1945-46, 1952-54. Includes correspondence *re* synchrotron guns, 1952.
- H.263 1955-57.
- H.264 1958-64.
- H.265 1965-69, 1975-80.
- H.266-H.276 **Mayr, J.** 1950-64
- Mayr, of the University of Milan, visited the Department of Radiotherapeutics 1950, and annually 1952-62.
- Eleven folders covering research and visits.
- H.266 1950, 1952.
- H.267 1953.
- H.268 1954. Chiefly *re* paper on P³³ in radiophosphorus.

H.269	1955-56.	
H.270	1957-58. Includes note of 'Research done by Dr Mayr in the Department of Radiotherapeutics', 1953-57.	
H.271	1959.	
H.272	1960.	
H.273	1961 January-July.	
H.274	1961 August-December.	
H.275	1962.	
H.276	1963-64.	
H.277	Meador, R.G.	1946-49
H.278, H.279	Melching, H-J. Two folders chiefly <i>re</i> visits and Vereinigung Deutscher Strahlenschutzärzte meetings.	1959-65
H.278	1959-60.	
H.279	1961-65.	
H.280	Morgan, R.L. Morgan worked in the Department of Radiotherapeutics, summer 1949.	various dates 1949-73

H.281, H.282	Morley, T.G.	various dates 1966-85
	Morley was a research student in the Department of Radiotherapeutics, 1966-71.	
H.281	1966.	
H.282	1970-71, 1976, 1985.	
H.283-H.285	Mott, N.F.	1946, 1955-61
H.283	1946.	Acquisition of radio-active isotopes by German researchers.
H.284	1955-58.	
H.285	1959-61.	Chiefly re discussion group on nuclear armaments and related problems, established by Mott.
H.286	Mundinger, F.	1970-74
	Chiefly re work on radiosensitising drugs.	
H.287-H.291	Naftalin, L.	1960-67, 1972-75
	Five folders covering research and career.	
H.287	1960-62.	
H.288	1963.	Includes correspondence re MRC grant for integrating densitometer.
H.289	1964.	Includes papers on plasma concentrations of amino acids, sent to Mitchell for comment.

- H.290 1965-67.
- H.291 1972-75.
- H.292 **Needham, J.** 1957-70
Chiefly *re* visit of Chinese medical scientists, 1960.
- H.293 **Nielsen, J.** 1953-64
- H.294 **Nuttall, J.R.** 1956-57, 1963, 1978
Includes exchange *re* development of radiotherapeutic services in Leeds, 1963.
- H.295, H.296 **Osbaldiston, G.W.** 1963-67, 1970-71
Osbaldiston was a research student in the Cambridge University Department of Veterinary Medicine, 1963-67.
- H.295 1963-67.
- H.296 1970-71.
- H.297 **Owen, A.R.G.** 1956-57, 1972-73
- H.298, H.299 **Owen, L.N.** 1960-76, 1980
Chiefly *re* appointments.
- H.298 1960-61, 1966.
- H.299 1967-76, 1980.

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| H.300 | Paterson, E. | 1956-62 |
| | Includes correspondence, 1956-57, <i>re</i> new radiobiology journal and, 1962, <i>re</i> trials of synkavit. | |
| H.301 | Paterson, J.R. | 1946, 1954-63, 1973 |
| H.302, H.303 | Pennell, V.C. | 1965-73 |
| | Pennell was Director of the Addenbrooke's Cancer Registration Bureau. | |
| H.302 | 1965-70. Includes 'Epidemiology of cancer in East Anglia' by Pennell. | |
| H.303 | 1972-73. | |
| H.304 | Pest Control Ltd. | 1948-51 |
| H.305, H.306 | Pickering, G.W. | 1958-75 |
| | Sir George Pickering was Regius Professor of Medicine at Oxford, 1956-68. Much of the correspondence concerns common problems. | |
| H.305 | 1958-62. | |
| H.306 | 1964-75. | |
| H.307-H.310 | Pochin, E.E. | various dates 1946-84 |
| H.307 | 1946-49. Includes material <i>re</i> penetration of concrete by radiation. | |
| H.308 | 1951-59. | |

- H.309 1960-61. Correspondence, 1960, *re* International Commission on Radiological Protection recommendations.
- H.310 1965-84.
- H.311 **Pollard, E.C.** 1960-61, 1965
- H.312 **Porter, R.** 1958-63, 1978
Porter worked in the Department of Radiotherapeutics, 1956-57.
- H.313 **Puck, T.T.** 1957
Visit to Cambridge, June-July 1957.
- H.314 **Putten, L.M. van** 1956-58
Putten worked in the Department of Radiotherapeutics, 1957-58.
- H.315-H.317 **Quick, R.S.** 1946-58, 1963
Quick was Senior Physicist at the Radiotherapeutic Centre, 1946-53.
Three folders chiefly covering career.
- H.315 1946-51.
- H.316 1952-53.
- H.317 1955-58, 1963.
- H.318-H.321 **Radiochemical Centre, Amersham** 1953-80
Correspondence chiefly *re* supply and use of synkavit and tritiated synkavit.

- H.318 1953-56, 1960.
- H.319 1962. *Re* TRA 119.
- H.320 1963-65, 1968.
- H.321 1970-80.
- H.322 **Rausch, L.** 1960-61
Visit to Cambridge, October 1960.
- H.323 **Rawlins, F.I.G.** 1949
Provision of image amplification x-ray tube for National Gallery, London.
- H.324 **Rideal, E.K.** 1950-56, 1963, 1970
Mitchell researched under Rideal at the Cambridge Colloid Science Laboratory, 1934-38.
- H.325 **Rosenheim, M.L.** 1960-72
- H.326 **Rotblat, J.** 1953-65
Includes correspondence, 1953-54, *re* lecture by Mitchell on medical aspects of atomic energy.
- H.327 **Rothschild, N.M.V.** 1949, 1952, 1954
Correspondence, 1954, *re* experiment 'to study the effects of chronic exposure of a population to a dose of radiation such as 100r'.

- H.328-H.333 **Rundo, J.** 1952-64, 1969, 1974
- Rundo was seconded from the Atomic Energy Research Establishment, Harwell, to serve as the Medical Research Council's resident Physicist at the Finsen Laboratory, Copenhagen, 1952-54, investigating the thorotrast problem in Denmark. Most of the correspondence concerns progress of research into thorotrast. See F.322-F.361.
- H.328 1952.
- H.329 1953. Includes six-monthly reports, January and July.
- H.330 1954. Includes six-monthly report, July.
- H.331 1955. Publication of results.
- H.332 1956-58.
- H.333 1960-64, 1969, 1974.
- H.334 **Sanz Muñoz, M.** 1948-49
- Sanz Muñoz worked in the Department of Radiotherapeutics, July-October 1949.
- H.335 **Scaramozzino, G.** 1948-50
- Scaramozzino worked in the Department of Radiotherapeutics, October-December 1948.
- H.336-H.339 **Schiøler, P.A.** 1951-55
- Schiøler of the Finsen Institute, Copenhagen, was a research student in the Department of Radiotherapeutics, 1952-54.
- Four folders covering research and career.

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|-------------|--|---------|
| H.336 | 1951. | |
| H.337 | 1952 January-June. | |
| H.338 | 1952 August-December. Includes 'Yearly report to Professor J.S. Mitchell 21/II/1952 - 1/XII/1952'. | |
| H.339 | 1953-55. | |
| H.340 | Schmidt, C.G. | 1970-76 |
| H.341 | Schurr, H.R. | 1976-77 |
| H.342-H.347 | Scott, O.C.A. | 1948-81 |
| | Scott was House Physician in the Radiotherapeutic Centre, 1949-50. | |
| | Four folders covering research and career. | |
| H.342 | 1948-51. | |
| H.343 | 1955-60. | |
| H.344 | 1965-66. Includes exchange, February 1966, re 'chemical sensitisers as an alternative to oxygen'. | |
| H.345 | 1967. Includes correspondence and data re Scott's team's 'new results with menadione' and suggestion that 'the true sensitiser is not synkavit but menadione'. | |
| H.346 | 1968. Chiefly re 'utilisation of oxygen by hanging drop cultures'. | |

H.347 1970-76, 1981.

H.348 Seelentag, W. 1977-79, 1984

H.349-H.354 Sengün, A. 1965-69

Correspondence chiefly re visits by Sengün to England and C.L. Smith and P.P. Dendy to Turkey.

H.349 1965-66.

H.350 1967 January-June.

H.351 1967 July-December.

H.352 1968 January-July.

H.353 1968 August-December.

H.354 1969.

H.355-H.357 Sherbert, G.V. 1969-80

Three folders covering career.

H.355 1969-72.

H.356 1974-76.

H.357 1977-80.

- H.358-H.365 **Simon-Reuss, I.** 1946-83
- Simon-Reuss joined the Department of Radiotherapeutics in October 1946. She was appointed Assistant in Research in 1951 and was Senior Assistant in Research, 1957-61. Thereafter she was supported by a Medical Research Council grant. She retired in 1966.
- Eight folders covering career and retirement.
- H.358 1946-49. Includes Mitchell's manuscript notes on meetings to discuss research, and material *re* International Women's Scientific Group, Cambridge.
- H.359 1950-51.
- H.360 1952-53.
- H.361 1955-60.
- H.362 1961-67. Includes report on research, 1962-63.
- H.363 1969-77.
- H.364 1978-83.
- H.365 Miscellaneous material, including Mitchell's obituary of Simon-Reuss.
- H.366 **Simpson, S.L.** 1947-48
- H.367-H.377 **Smith, C.L.** 1959-67
- Smith was Assistant Director of Research in the Department of Radiotherapeutics.
- H.367-H.376 is a sequence of correspondence, notes and drafts *re* public and invitation lectures delivered by Smith.

H.367	1959.	
H.368	1960.	
H.369	1961.	
H.370	1962.	
H.371	1963 (1).	
H.372	1963 (2).	
H.373	1964.	
H.374	1965.	
H.375	1966.	
H.376	1967.	
H.377	Nd.	
H.378	Smithers, D.W.	1957-65
H.379	Spear, F.G.	1946-47, 1954-66
H.380	Spiers, F.W.	various dates 1953-85
	Correspondence and papers, 1957, re radiation in Cornwall.	

H.381	Stašek, V.	1965-72
	Chiefly <i>re</i> visit to Cambridge, 1965.	
H.382-H.388	Stein, G.	1950-76
	Seven folders chiefly covering visits to Cambridge.	
H.382	1950-55.	
H.383	1958-60.	
H.384	1961-62. Includes 'Some contributions of radiation chemistry to the understanding of the biological actions of ionizing radiations', by Stein delivered as a lecture in Cambridge, 1961. See C.41.	
H.385	1963-67.	
H.386	1968.	
H.387	1969-71.	
H.388	1973-76.	
H.389-H.396	Sturton, S.D.	1946-72
	Sturton worked in the Department of Radiotherapeutics, 1946-47.	
	Eight folders chiefly covering research.	
H.389	1946-51.	
H.390	1953-54.	

- H.391 1957-59. Includes correspondence *re* use of synkavit.
- H.392 1960. Includes 'Chemotherapy of malignant disease' by Sturton, sent to Mitchell, February.
- H.393 1961.
- H.394 1962-63.
- H.395 1965-67. Includes correspondence *re* investigations of incense smoke and naso-pharyngeal carcinoma.
- H.396 1968-72. Includes draft 'Sequel' to Sturton's *From Mission Hospital to Concentration Camp* (London 1948), prepared in March 1970 shortly before his death.
- H.397, H.398 **Taylor, M.P.** 1948-62, 1966, 1972
Taylor worked in the Radiotherapeutic Centre from 1947.
- H.397 1948-53. Effects of radiation on the eye.
- H.398 1958-62, 1966, 1972.
- H.399-H.403 **Thomas, H.O. and Salomon, K.** 1956-72
- H.399 1956-61. Chiefly *re* establishment of radiotherapeutic facilities at University College, Ibadan, Nigeria.
- H.400 1962-63. Chiefly *re* new radiotherapy department at Lagos University.

- H.401 1964. Lagos University radiotherapy department.
- H.402 1965-67.
- H.403 1968-72. Correspondence with K. Salomon, Head of Department of Radiation Biology and Radiotherapy, University of Lagos, *re* facilities.
- H.404 **Thorpe, W.H.** 1957, 1963
Correspondence, 1957, is *re* drafts of 'appeal to the Government to abandon or at least postpone the planned thermo-nuclear tests in the Pacific' sent to Mitchell for comment.
- H.405 **Thygesen, J.D.** 1956
- H.406 **Todd, A.R.** various dates 1957-77
- H.407-H.409 **Trowell, O.A.** 1947-68
Trowell was Head of the Physiology Group at the Radiobiological Research Unit, Harwell 1948-67.
- H.407 1947-48, 1951-53. Mitchell's letter of 20 October 1947 explains his postwar career decisions.
- H.408 1956-65.
- H.409 1967-68. Chiefly *re* Mitchell's obituary of Trowell.
- H.410 **Truscott, B.M.** 1969-70
Truscott was a surgeon at Addenbrooke's Hospital.
- H.411 **Tubiana, M.** 1956-65

- H.412 **Vendrik, A.J.H.** 1949-50
Vendrik worked in the Department of Radiotherapeutics, June-September 1950.
- H.413 **Waddington, C.H.** 1947, 1957, 1959
Correspondence 1947 *re* possible joint work on genetic effects of ionising radiation in mammals.
- H.414 **Ward, A.** 1951
- H.415, H.416 **Warren, S.** 1954-66, 1974, 1977
- H.415 1954-59. Includes correspondence *re* Mitchell's visit to Harvard to deliver the Dunham Lectures. See E.124-E.126.
- H.416 1960-66, 1974, 1977.
- H.417 **Warrington, H.C.** 1962-63
Synkavit trial.
- H.418, H.419 **Weiss, J.J.** 1959-67, 1972
- H.418 1959-64, 1972. Includes correspondence *re* radiosensitisation by CO₂.
- H.419 1960-67.
- H.420 **Wellcome Research Laboratories** 1966, 1974-75
Correspondence, 1974-75, *re* supply of *Corynebacterium parvum* vaccine.

- H.421 **Widerøe, R.** various dates 1956-83
- Includes 'Some memories and dreams from the childhood of particle accelerators' by Widerøe sent to Mitchell, 1983.
- H.422 **Windeyer, B.W.** various dates 1950-64
- H.423 **Wood, C.A.P.** 1957-59
- H.424 **Zuppinger, A.** 1956, 1980, 1986
- Includes correspondence, 1956, *re* possible case of radiation damage to the opticus.

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H.450 1967 August-December	

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