

Catalogue of the papers and correspondence of

Harold Miller OBE

(1909 - 1995)

by Timothy E. Powell and Peter Harper

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Mr Tom Miller, son, via Sheffield University Library in December 1999 and from Mr Miller directly in May 2000.

OUTLINE OF THE CAREER OF HAROLD MILLER

Harold Miller was born in Staveley, north east Derbyshire on 14 September 1909. The two dominant influences in his family background were Primitive Methodism and the emerging Labour movement and these influences remained strong throughout his life. He was educated at Netherthorpe Grammar School where his academic abilities were recognised and he was encouraged to remain an extra year to try and gain admission to Cambridge. After much family discussion, this was agreed and Miller obtained an open scholarship to St John's College to read Natural Sciences.

Miller graduated with first class honours in both parts of the tripos in 1931 and then undertook research at the Cavendish Laboratory supervised by J. Chadwick. The degree of PhD was awarded in 1935 for his thesis on 'The transmutation of light elements by Alpha particles'. In 1934 Miller joined Electrical and Musical Industries (EMI) Ltd of Hayes, Middlesex, and did research of a fundamental nature in high vacuum and electron physics, photoelectric phenomena and electronic optics in a team which established the first successful system for commercial television transmission. He married his wife Mary in 1937. They had three sons.

The onset of war presented particular difficulties to Miller arising from his longstanding pacifist beliefs. He declared his unwillingness to undertake military work, and was put in charge of refugee scientists working in other areas. In due course he decided to work in hospital and was appointed Physicist to the Sheffield National Centre for Radiotherapy in 1942. Although wartime work in radiotherapy was largely routine, he was well placed to contribute to the development and expansion of medical physics after the war and in the new National Health Service.

In 1946 a decision was taken to install at Sheffield a 2 M.E.V. Van de Graaf X-ray generator, the first of its kind in Britain. It was manufactured in Boston, Massachusetts and, as part of the planning process, Miller made an extended visit to the USA, February - April 1947. In the late 1940s radioactive isotopes from Harwell became available for clinical use, opening up new approaches to the diagnosis of metabolic disorders. With E.J. Wayne, Professor of Pharmacology and Radiotherapeutics, University of Sheffield, Miller studied sodium metabolism using sodium 24. They began to evaluate thyroid function in patients with iodine 131 which in larger doses was soon

established as an effective treatment in selected patients with thyroid overactivity. Many other techniques, including ultrasound imaging, were established. Medical Physics eventually became an independent Regional Department with Miller as Chief Physicist. Numerous teaching demands were made on him including courses for doctors intending to specialise in radiology, and the training of radiographers, nurses, and technical staff, while the University of Sheffield required help with undergraduate courses. Miller became Honorary Lecturer before receiving the title of Associate Professor in the University of Sheffield in 1972. When Miller retired in 1975 he left a large and comprehensive service department with an academic department nearing completion in the Royal Hallamshire Hospital, Sheffield.

Miller's professional distinction was acknowledged by his peers when he became President of the Hospital Physicists' Association and President of the British Institute of Radiology. He also invited to undertake a number of overseas assignments on behalf of the International Atomic Energy Authority, the World Health Organisation and the UK Overseas Development Administration in support of medical physics in Afghanistan, Ghana, India and Thailand. These assignments continued well into retirement and his contacts with a number of research and treatment centres especially in India lasted many years.

In retirement he was also a major driving force in establishing a day care unit in the grounds of Weston Park Hospital, and much involved in community projects associated with the Methodist Church.

He was awarded the OBE in 1972 and an honorary degree of the University of Sheffield in 1980. He died on 4 October 1995.

Towards the end of his life he undertook research into his own historical roots and prepared an autobiographical account which was published in 1995 with an introduction by the Right Hon. Tony Benn M.P. (*Growing up with Primitive Methodism*, Fifth Chapel Aid Lecture).

DESCRIPTION OF THE COLLECTION

The material in this collection covers the period 1912-1995. It is presented in ten sections in the order given in the list of contents.

Section A, Biographical, covers the period 1912-1995. The material includes obituaries and biographical accounts, papers on Miller's research for *Growing up with Primitive Methodism*, career records, personal diaries, appointment diaries and notebooks, family papers and photographs. The diaries and notebooks are of interest for the light they throw on a great variety of his interests and

activities. Although Miller does not appear to have kept diaries continuously throughout his life there are diaries for the Second World War and immediate post war periods and also for a number of overseas visits later in his career. The notebooks, 1966, 1970-1993, include notes on medical physics, overseas technical assistance assignments, the day care unit at Weston Park Hospital and religious and community activities, and may include lists of things to do, lists of slides for talks and drafts of letters.

Section B, Cambridge, provides a record mostly in the form of notebooks and research reports of Miller's undergraduate and postgraduate studies and a copy of his PhD thesis (awarded 1935). The notebooks record notes on lectures attended, experimental work and his reading. A number of leading Cavendish scientists are represented by notes on their lectures, including P.M.S. Blackett, J.D. Cockcroft, R.H. Fowler, N.F. Mott, E. Rutherford and C.T.R. Wilson.

Section C, Early television, presents a sequence of Electrical and Musical Industries (EMI) Ltd Research Department Reports, 1934-1942, a few off-prints and published papers, predominantly from the late 1930s, and miscellaneous papers *re* the history of television. Many of these miscellaneous papers relate to an international conference on the history of television, held at the Institution of Electrical Engineers, London in 1986.

Section D, Medical physics, presents an alphabetical sequence of Miller's topic folders in such areas as radiation hazards, radiation protection, radiotherapy, ultrasonics and X-ray dosimetry. The contents of the folders are principally off-prints and duplicated papers with a little correspondence and manuscript notes and cover the period 1926-1982. Miscellaneous papers outside the alphabetical sequence include papers relating to the 'early history of isotopes' and the history of radiology.

Section E, Lectures and publications, covers the period 1934-1991. There are drafts for Miller's talks and shorter publications on a wide range of subjects for a variety of professional and non-professional audiences, a collection of off-prints of his scientific papers, and reviews of Miller and J. Walter's *A short textbook of radiotherapy*, 1950. The topics of his talks included atomic physics, nuclear weapons, medical physics, pacifism and science and religion, and there is a little material relating to his teaching.

Section F, Societies and organisations, presents records of Miller's involvement or interest in the activities of eleven organisations including professional bodies such as the British Institute of Radiology and the Hospital Physicists Association. Miller kept a substantial record of the activities of the Pugwash Conferences on Science and World Affairs, comprising newsletters and some British Pugwash Group and conference papers, 1957-1995 (bulk 1975-1995). There is also good documentation of the Weston Park Hospital, Sheffield, Day Care Unit. This opened in 1982 with a

remit to support and help patients who had recently received treatment at Weston Park Hospital (radiotherapy and/or chemotherapy) and found it difficult to cope in the community. Miller chaired the working group established in 1979 and the Weston Park Development Fund from its inception in 1980 to 1991, and there is a substantial record in terms of minutes and committee papers.

Section G, Visits and conferences, documents a number of overseas trips, 1947-1986, including holidays and visits to family members in Australia and New Zealand, as well as visits primarily with a scientific purpose. Of particular interest is an extended visit to the USA, February - April 1947 which related in part to the provision of a 2 M.E.V. X-ray generator for the Sheffield radiotherapeutic centre.

Section H, Technical assistance overseas, is the largest in the collection. It provides substantial documentation of a number of overseas consultancies undertaken by Miller on behalf of the International Atomic Energy Authority (IAEA), the World Health Organisation (WHO) and the United Kingdom Overseas Development Administration (ODA). Miller was particularly associated with Ghana, which he visited in 1965 and 1970; India where he was associated with the International Cancer Centre, Neyyoor, the Bhaba Atomic Research Centre, Trombay, Bombay, the Gujarat Cancer and Research Institute, Ahmedabad and the Barnard Institute of Radiology, Madras, 1965-1994; and Thailand where he was an IAEA consultant in 1976. He also visited Afghanistan on behalf of the IAEA in 1976 on his way to the Thailand assignment. The documentation includes reports to the sponsoring agencies and an extensive correspondence with the agencies, colleagues and his family whilst he was away from home. Miller was greatly interested in the way of life, culture and religion of the countries visited and this is reflected in the surviving materials.

Section J, Religion, reflects Miller's commitment to the Methodist Church and the important role of a wide range of social, peace and ethical concerns in his religious outlook. The manuscript notes for his sermons form a significant component of the papers in the section and cover the period 1944-1995 (bulk 1971-1995). There are also records of his association with the Christian pacifist organisation, the Fellowship of Reconciliation and of a number of community action groups in the Sheffield area associated with the Methodist Church. Miller also brought together materials, mostly printed, on such topics as science and religion and science and ethics and these are presented in this section.

Section K, Correspondence, is slight. It is entirely the contents of Miller's 'Letters to save' folder. A small number of principal correspondents are presented in a short alphabetical sequence. The remaining correspondence is listed chronologically. The period covered by the correspondence is 1955-1995 but it predominantly dates from the last few years of Miller's life.

There is also an index of correspondents.

ACKNOWLEDGEMENTS

We are very grateful to Mr Tom Miller for making the papers available and for his advice and encouragement.

Timothy E. Powell
Peter Harper
Bath August 2000

SECTION A	BIOGRAPHICAL	A.1-A.260
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A.1, A.2	OBITUARIES AND BIOGRAPHICAL ACCOUNTS
A.3-A.89	<i>GROWING UP WITH PRIMITIVE METHODISM</i>
A.90-A.107	CAREER, HONOURS AND AWARDS
A.108-A.143	PERSONAL DIARIES/JOURNALS
A.144-A.160	APPOINTMENT DIARIES
A.161-A.190	NOTEBOOKS
A.191-A.195	ALBUMS AND SCRAPBOOKS
A.196-A.227	FAMILY
A.229-A.235	SOCIAL AND PUBLIC ENGAGEMENTS
A.236-A.243	PHOTOGRAPHS
A.244-A.260	PRESS CUTTINGS

Biographical

A.1, A.2 OBITUARIES AND BIOGRAPHICAL ACCOUNTS 1981, 1995

A.1 Typescript obituary and photocopies of published obituaries, 1995 and n.d.

A.2 'Physicist for peace', *Methodist Recorder*, 16 July 1981.

'Comrades bridge the divide'. Photocopy of newspaper article *re* Miller's association with German prisoners of war at the Lodge Moor, Sheffield, prisoner of war camp, and in particular with Pastor Willie Hoepfner, n.d. [ca 1990].

A.3-A.89 GROWING UP WITH PRIMITIVE METHODISM 1916-1995

This was Miller's account 'of some youthful experiences in the 1920s in a home in which there were two dominant influences. One of these was the life of the Primitive Methodist Chapel in a mining village in North East Derbyshire, the other was the political atmosphere in a home committed to active participation in the local Labour Party at an interesting period of its development'.

It was published as the Fifth Methodist Chapel Aid Lecture in 1995 with a foreword by Tony Benn M.P.

The Fifth Chapel Aid Lecture was delivered at the Englesea Brook Chapel and Museum of Primitive Methodism, 28 May 1995. See A.24-A.29.

A.3 Published text and review.

A.4 Typescript of published text.

A.5 2 typescripts of spoken version with manuscript additions.

A.6 Typescript notes on the text of *Growing up with Primitive Methodism* by Miller's son John, with related correspondence, 1995.

A.7, A.8 Miscellaneous manuscript notes and comments on the text.

2 folders.

Biographical

- A.9 Correspondence with Tony Benn MP *re Growing up with Primitive Methodism* including Benn's foreword, 1994-1995.
- A.10-A.14 Correspondence *re* publication of *Growing up with Primitive Methodism*, 1993-1995.
5 folders.
- A.15-A.17 List of those to whom Miller sent copies of *Growing up with Primitive Methodism*, letters of thanks and appreciation, 1995.
3 folders.
- A.18-A.80 Topic folders 1916-1995
A sequence of Miller's folders arranged alphabetically by folder title. The contents include correspondence, manuscript notes, photographs and printed and duplicated papers relating to his research for *Growing up with Primitive Methodism*.
The contents of Miller's folders have been divided where appropriate for ease of reference
- A.18 'Coal Archives'.
Letter, manuscript notes and photocopies *re* visit to the British Coal Archives Centre, Mansfield, Nottinghamshire, 1992.
Letter and information from Rhône-Poulenc Chemicals *re* history of the Staveley Works site, 1992.
- A.19-A.21 'Derbyshire Miners / J E Williams'.
Miller's manuscript notes from book or books by Williams on Derbyshire Miners.
3 folders.

Biographical

- A.22, A.23 'Derbyshire Times Kelly's Directory'.

Obituary of Miller's father (died 1953) from *Derbyshire Times*; Miller's manuscript notes from *Derbyshire Times* and *Kelly's Directory*.

2 folders.
- A.24-A.28 'Englesea Brook'.

Englesea Brook Chapel and Museum near Crewe, Cheshire was established as a memorial to the work of the Primitive Methodists in Britain.

Principally printed material *re* the Chapel and Museum and the history of Methodism, 1988-1995.

Presented at A.24 is letter of 23 November 1993 inviting Miller to deliver the 1995 Chapel Aid Lecture at Englesea Brook.

5 folders.
- A.29-A.39 'Letters'

Correspondence, manuscript notes and press cuttings *re* Miller's research and historical account with a little earlier correspondence kept with it, 1920-1995.

3 letters to Miller's parents, 1920 (2 letters) and 1923 and 1 letter to Miller, 1924 relate to his school education. See A.29.

11 folders.
- A.40, A.41 'Limb / Letters'

Correspondence from J.W. 'Bill' Limb and Wilfred Limb with photocopies of school photographs, Barrow Hill Junior School '1917 or 1918' including Miller and Staveley Church of England School '1925/6', 1991-1993.

2 folders.
- A.42 'LPMA / Mr Sawyer'

Printed papers of Methodist Local Preachers Mutual Aid Association, 1995.

Biographical

- A.43-A.45 'Matlock Archives'.
- Correspondence, manuscript notes etc *re* research at the Derbyshire Record Office, Matlock including copy of the list of documents deposited by Miller in the Record Office, 1993, 1995.
- 3 folders.
- A.46-A.51 'Methodist Archives Local'.
- A.46-A.49 Correspondence with Methodist Church Sheffield District Archivist and others, duplicated and printed papers *re* Methodist history, 1985-1992.
- 4 folders.
- A.50 Methodist Church long service certificate awarded to Miller, September 1976.
- Miller was received as a fully accredited local preacher in 1926.
- A.51 Order of Special Service under the auspices of the No-Conscription Fellowship, Primitive Methodist Church, Cambridge Street, Sheffield, 7 May 1916.
- Letter from the Primitive Methodist Sunday School Union to Miller, 10 September 1927.
- Printed notice of the Great Methodist Union Demonstration, Guildhall, Cambridge, 21 January 1932.
- A.52 'Methodism Divided R. Currie'.
- Manuscript notes, photocopied pages from *Methodism Divided* by Robert Currie (Faber & Faber, 1968).
- A.53, A.54 'Notes from visits / telephones'.
- Manuscript notes from visits and telephone calls *re* Miller's research with related correspondence, 1991-1993.
- 2 folders.

Biographical

- | | |
|-----------|---|
| A.55-A.69 | 'Photos'. |
| A.55 | 1918, 1920s.

Includes photograph of Miller and other members of his family.

4 photographs. |
| A.56 | 1930s.

Includes Primitive Methodist picnic and Whitsuntide procession, Poolsbrook.

4 photographs. |
| A.57 | 1940s.

Includes members of Miller's family and Fellowship of Reconciliation conference, 'Summer 1948'.

5 photographs. |
| A.58 | 1950s and 1960s.

3 photographs. |
| A.59 | Photographs of Poolsbrook, Staveley, etc found attached together, mid 1920s, 1934 and n.d.

8 photographs. |
| A.60-A.63 | Photographs of Barrowhill, Netherthorpe, Patrington and Poolsbrook taken 1992-1993. |
| A.60 | Barrowhill: Refurbished Railway Terrace, Old Co-op Store, Primitive Methodist Church, Top Row, School.

6 photographs. |
| A.61 | Netherthorpe: Old School.

1 photograph. |

Biographical

- A.62 Patrington: Primitive Methodist Church Continuing.
2 photographs.
- A.63 Poolsbrook: Chapel, Old Anglican Church, Old Co-op Store, Pub.
8 photographs.
- A.64-A.66 Undated photographs.
- A.64 Meeting at Harrogate.
5 photographs.
- A.65, A.66 Miscellaneous.
10 photographs.
2 folders.
- A.67 Photocopies of old photographs.
- A.68 Newspaper cutting, 1936.
- A.69 Part of Ordnance Survey map showing the Staveley area of Derbyshire.
- A.70 'Political Parties Coop Letters'.

Correspondence, manuscript notes *re* records of the Labour Movement in north east Derbyshire 1992-1993.

Miller's correspondents include Chesterfield and District Co-operative Society Ltd, local Labour Party constituency offices and the Union of Shop, Distributive and Allied Workers (USDAW).

Biographical

- A.71, A.72 'Poolsbrook Centenary'.

Correspondence and papers *re* centenary of Poolsbrook Methodist Chapel 1893-1993, 1933-1993.
- A.71 Correspondence, Miller's manuscript and typescript notes, 1992-1993.
- A.72 Methodist Local Preachers' Mutual Aid Association subscription card, church notices, orders of service, etc, 1933-1993.
- A.73-A.78 'Printed archives'.

Printed and duplicated papers, 1927-1994.

Include papers addressed to the local government electors of the Parish of Staveley *re* proposed amalgamation with the Borough of Chesterfield, 1927 (A.77) and photocopy of membership card of the Cambridge University Primitive Methodist Students' Union, Easter Term 1932 (A.78).

7 folders.
- A.79, A.80 'Rylands Library Manchester'.

Correspondence and papers *re* Methodist Archives and Research Centre at the John Rylands University Library of Manchester, 1992-1991.

2 folders.
- A.81 Miscellaneous manuscript notes, etc *re* Miller's research for *Growing up with Primitive Methodism*.

Includes letter from headmaster of Netherthorpe Grammar School, Staveley, Chesterfield, 17 May 1960.
- A.82-A.89 Miscellaneous duplicated and printed papers, 1919-1993.
- A.82-A.85 Duplicated and printed papers *re* General Strike, 1926.

4 folders.

Biographical

- A.86 *Peterloo: A history of the massacre and the conditions which preceded it* by J.H. Hudson. National Labour Press Ltd, n.d. [?1919].
- A.87 *Ireland Colliery 1874-1974*. Booklet prepared as a memento of 100 years of coal mining at Ireland Colliery. North Derbyshire Area National Coal Board, n.d. [1974].
- A.88 *A History of Poolsbrook School* by D.W. Barrow. Signed and dated 'Nov 1992' by the author.
- A.89 *Our chapel* by Peter Lewis, Director of Beamish The North of England Open Air Museum. Sent to Miller with covering letter, 8 September 1993.

A.90-A.107

CAREER, HONOURS AND AWARDS

1927-1992

- A.90 Correspondence from P.G. Feek, Director of Education, Derbyshire and St John's College, Cambridge to Miller's father *re* Miller's Cambridge entrance and scholarships, 1927-1928.
- A.91 Letter of congratulations from P.G. Feek, Director of Education, Derbyshire to Miller's father on the excellent result of Miller's tripos examination at Cambridge, 25 June 1931.
- A.92 Roll of university certificates:
BA, Cambridge, 1931.
MA, Cambridge, 1935.
PhD, Cambridge, 1935.
- A.93 'Statement to be submitted by H. Miller to the Conscientious Objectors' Tribunal', n.d.
- A.93A Fellowship of the Institute of Physics, 1942.

Biographical

- A.94 Opening of the David Morrison Research Department, Sheffield National Centre for Radiotherapy, 25 November 1949.
- See also A.237.
- A.95 Memoir recording the history of the David Morrison Memorial Fund and the David Morrison Research Department at the Sheffield National Centre for Radiotherapy with a note on the James Morrison Research Fellowship at Sheffield University by T.W. Barnard, 1 December 1964.
- Includes reference to Miller's 1948 visit to the USA in connexion with the provision of a 2 M.E.V. X-ray generator for Sheffield.
- A.96 O.B.E., 1972.
- See also A.240.
- A.96A Conferment of the title of Professor Associate in Medical Physics, University of Sheffield, 1972
- A.97-A.103 Retirement, 1975.
- A.97 Correspondence, July 1975 – January 1976.
- A.98 Greetings cards and telegrams.
- A.99 Note of appreciation from those who had worked under Miller in the Sheffield Regional Medical Physics Department, September 1975.
- List of those attending a retirement function, n.d.
- A.100 Signed menu for dinner at the Cutlers Hall, Sheffield on the occasion of Miller's retirement, 25 November 1975.
- A.101-A.103 Photographs.
- 3 folders.

Biographical

- A.104, A.105 Honorary degree, University of Sheffield, 1980.
- A.104 Invitation to accept degree, congratulations, orator's address etc.
- A.105 Certificate.
- A.105A Letter from Miller and his wife to Kenneth Clarke, Secretary of State for Health *re* their concerns about new proposals for the National Health Service, with reply from the Department of Health and Social Security and related printed papers, 1989.
- A.106 Corporate Grade of Membership of the Institute of Physical Sciences in Medicine, 1988.
- A.107 Associate of Intermediate Technology, 1992.
- A.108-A.143 PERSONAL DIARIES/JOURNALS 1933-1995**
- A.108 'Aug 1933 - Sept 8 1934'.

Includes summer holidays walking in the Lake District 1933 and Germany 1934 including Oberammergau, religious and pacifist activities and life in Cambridge as research student.
- A.109 'Mary Rhineland April 9-16 1937'.

Mary was Miller's future wife, Mary Bacon.

The notebooks incorporates photographs of Cologne, the Rhine, Heidelberg etc.
- A.110 'Oct 8 1937 - Feb 8 1939'.

This diary was kept jointly by Miller and his wife Mary. Miller was working at the EMI Research Laboratories, Hayes, Middlesex.

/...

Biographical

- /... Includes accounts of their Swiss holiday 1938 and the international political situation. There are references to their reading, theatre and cinema visits and early television programmes. The television set was lent to them by EMI.
- On 11 February 1938 Miller read a paper on the 'Electrical Reproduction of Images by the Photo Conductive Effect' at the Physical Society with I. Shoenberg and A.D. Blumlein in attendance.
- Press cuttings and memorabilia including theatre programmes are pasted into the notebook.
- A.111 'March 5 1939 -Sept 23 1940'.
- Includes accounts of the international situation and the first year of the Second World War including air raids on London, and the position of pacifists and conscientious objectors including Miller.
- Press cuttings are pasted into the notebook.
- A.112 'Sept 28 1940 - 12 March 1944'.
- Includes accounts of the war including air raids and food shortages, the position of pacifists and conscientious objectors, Miller's work at EMI research laboratories including move from Hayes to Hengrove, and his subsequent entry into medical physics at Sheffield.
- Press cuttings, Christmas card from Isle of Man internment camp (G. Lubszynski), 'Hengrove Elegy' on the departure of Miller for Sheffield etc are pasted into the notebook. A copy of *Peace News*, no.222, 13 September 1940 is enclosed at the front.
- A.113 '14 March 1944 - May 6 1945'.
- Includes accounts of the war and medical physics activities.
- Press cuttings are pasted in the notebook. Some papers enclosed loose at back of notebook.
- A.114 'May 13 1945 - May 31 1947'.
- Includes accounts of the domestic and international political situation after the end of the war in Europe and medical physics activities.
- Newspaper-cuttings, Methodist service of thanksgiving for use on the cessation of hostilities in Europe, photographs, etc are pasted into the notebook. Some papers enclosed loose at back.

Biographical

- A.115 'June 26 1947 - May 1949 including trip to US'.

There are a small number of later entries to 1 March 1953.

Includes accounts of holiday in Switzerland (Miller and his son, John) August 1947 and a work-related visit to the USA February - April 1948.

There are photographs pasted into the notebook. At the front is a group photograph of Hospital Physicists' Association meeting at Liverpool, 22 July 1944 and as an addendum at the back photographs and postcards from the US visit.
- A.116 'Australia July Aug 1973'.
- A.117 'Budapest Jan/Feb 1975'.
- A.118 'Bangkok 1976'.

Miller served in Thailand as an IAEA consultant to advise on the establishment of a centralised medical physics service and the development of a centralised training programme. He visited Hungary and Afghanistan on the way to Thailand. See also A.119, A.167, H.266-H.359.
- A.119 'Bangkok June July 1976'.

Much of the journal relates to tourist and other non-scientific activities during the latter part of his stay in Thailand.
- A.120 'India Bombay Jan 1978'.

The principal reason for Miller's trip was to visit the Bhaba Atomic Research Centre (BARC), Trombay, Bombay where he undertook a World Health Organisation (WHO) assignment as a short-term consultant. See also A.168, H.164-H.175.
- A.121 'Australia/New Zealand Dec/Jan 1978/79'.
- A.122 'New Zealand August 1979'.

The diary covers the period 9 July - 29 August 1979. Memorabilia are pasted into the notebook.

Biographical

- A.123 Jan 1 1980 - March 16 1980.
- Copy of the newsletter of the Stephen Hill Methodist Church, Crosspool, Sheffield is pasted into the notebook.
- A.124 '[Gujarat Cancer and Research Institute] Ahmedaba[d] March 1980'.
- Miller visited GCRI Ahmedabad to advise on developing its medical physics back-up to the radiotherapy unit. His visit was sponsored by the UK Overseas Development Administration. See also A.126, A.129, A.134, A.137, A.171, H.176-H.236.
- Press cuttings were fixed in the notebook with cellotape, letters from Miller to his wife are enclosed loose towards the back of the notebook.
- A.125 'Ghana 1965 / Diary April 1980 - October 1981'.
- In addition to the continuation of the 1980 diary there are a few notes about a visit to Ghana in 1965 at the front of the book. For the visit to Ghana see H.34-H.103.
- Press cuttings pasted into notebook.
- A.126 'India August 1981'.
- Miller's visit to India included the Gujarat Cancer and Research Institute, Ahmedabad and the International Cancer Centre, Neyyoor.
- Letters from Miller to his wife are enclosed at the back of the notebook
- A.127 'H. Miller Greek Trip April 28 - May 1982'.
- 'Hellenic Cruise Daily Programmes' are enclosed at the back of the notebook.
- A.128 'May 1982 - October 1983'.
- Includes opening of Western Park Hospital Sheffield, Day Care Unit.
- Memorabilia, press cuttings and photographs are pasted into the notebook.

Biographical

- A.129 '[Gujarat Cancer and Research Institute] Ahmedabad Oct 83'
- Memorabilia, press cuttings, photograph, letters between Miller and his wife etc. were fixed into the notebook with cellotape.
- A.130 'Australia - New Zealand Dec 83 Jan 84'.
- A little memorabilia is pasted into the notebook.
- A.131 'Nov 9 1984 - 10 July 1985'.
- Press cuttings are pasted into the notebook.
- A.132 '16 July 1985 - 22 Sept 1985'.
- Press cuttings are pasted into the notebook.
- A.133 'March 1986 - January 87' including Australia/New Zealand December 86/January 87'.
- Memorabilia and press cuttings are pasted into the notebook.
- A.134 '25/4/87 - 3/7/87 including [Gujarat Cancer and Research Institute] Ahmedabad May 1987'.
- Memorabilia, photographs and letters between Miller and his wife during his visit to India are pasted into the notebook. Inside front cover is itinerary for visit to Ahmedabad 15 May to 30 May 1987.
- Includes photographs from earlier visits to Ahmedabad in 1980 and 1981.
- A.135 '24/8/87-30/3/89'.
- Press cuttings, family photographs, etc are pasted into the notebook. Some of the press cuttings and the photographs precede the dates of the journal, the earliest press cutting dating from Miller's visit to the USA in 1948.
- A.136 '18 August 1988 with trip round Italy by Swan Hellenic Trip No 325 24/8/88-7/9/88'.
- Memorabilia are pasted into the notebook.

Biographical

- A.137 'India Trip Nov-Dec 1988 Ahmedabad & Bombay 26/11/88 - 6/12/88'
- Miller attended the Indo-British Collaborative Workshop on Radiation Oncology, 29 November - 1 December 1988 at Ahmedabad.
- Memorabilia, photographs, and letters including those between Miller and his wife Mary are pasted into the notebook.
- See also A.181.
- A.138 '24 May 1989 to 18 Jan 1990 including New Zealand...Australia...Bangkok ...'
- Press cuttings and memorabilia are pasted into the notebook.
- A.139 'February 1 1990 - 15 January 1991'.
- Includes accounts of changing political situation in Eastern and Central Europe and South Africa.
- Press cuttings and photographs including old photographs from 1949-1950 are pasted into the notebook.
- A.140 '16 January 1991 to August ... 1992 / (Gulf War 1991) / (Russian Revolution)'
- Press cuttings, photographs and memorabilia are pasted into the notebook. Press cuttings include some from late 1940s *re* atomic scientist A.N. May and Miller's visit to the USA and from 1972 *re* Miller's OBE.
- A.141 'Aug 12 1992 - Oct 22 1994'.
- Press cuttings, photographs and memorabilia are pasted into the notebook.
- Opposite entry for 17/9/94 Miller has pasted letter from J.M. Wordie, St John's College Cambridge, 20 December 1927 confirming Miller's election to a £100 scholarship at the recent examination. As part of the entry for 25/9/94 there is a photograph of the radiobiologist John Read who died in October 1993. See also K.4.
- Some of the press cuttings date from Miller's 1948 visit to the USA.
- A.142 '25/10/94 - 29-8-95'.
- Press cuttings, photographs and memorabilia are pasted into the notebook.

Biographical

A.143 '5/9/95→ '

The last entry is for 3/10/95. Miller died on 4 October 1995.

Newspaper cuttings, photographs etc are pasted into the notebook.

A.144-A.160

APPOINTMENT DIARIES

1972-1995

A.144 1972.

A.145 1975.

A.146 1975.

A.147 1981.

A.148 1982.

A.149 1983.

A.150 1984.

A.151 1985.

A.152 1986.

A.153 1987.

A.154 1988.

Biographical

A.154A 1989.

A.155 1990.

A.156 1991.

A.157 1992.

A.158 1993.

A.159 1994.

A.160 1995.

A.161-A.190

NOTEBOOKS

1954-1995

It is a characteristic of these notebooks that they include Miller's notes on medical physics, his overseas consultancies and his religious activities including talks, sermons and meetings. From 1977 to 1993 Miller used loose leaf refill pads for this purpose, with shoe laces, string or treasury tags as fasteners. At the end of the sequence are a small number of notebooks reflecting Miller's interests in gardening and ornithology.

See also Section B for Miller's Cavendish Laboratory Cambridge notebooks and Section J for a number of notebooks relating to religion and the Methodist Church.

A.161 1966 diary used for notes on medical physics work, religious activities, slide lists, etc. Latest dated entry 17 September 1967.

A.162 Notebook used by Miller during visit to Ghana in 1970.

Miller visited Ghana as IAEA Advisor to the Government of Ghana on the use of radioisotopes. See also H.34-H.103.

/...

Biographical

- /... Includes contact information, appointments, notes on apparatus examined, conversations with colleagues, etc.
- A.163 1972 diary used for notes on medical physics work and religious activities. In use between 26 November 1971 and 5 April 1973.
- A.164 1973 diary used for notes on medical physics work including Miller's teaching, and religious activities including slide lists for talks. In use between January 1973 and January 1974.
- A.165 1974 diary used for notes on medical physics work and religious activities and diary of holiday in Northumberland. In use between January 1974 and April 1975.
- A.166 1975 diary used for notes on medical physics work including Miller's teaching, history of medical physics in Sheffield, religious activities, lists of things to do, lists of slides, etc.
- A.167 Loose leaf refill pad with sheets held together with a shoe lace inscribed on front cover with span dates '9/8/76' and '20/10/77' and the year '1977'. Used for notes on medical physics and religious activities including notes on Thailand and Buddhism. Latest entry dated 20 November 1977.
- Miller served in Thailand as an IAEA consultant, February - August 1976.
- A.168 Loose leaf refill pad with sheets held together with a shoe lace inscribed on front cover with span dates 'Jan 77' and 'Nov 77' and the year '1977'. Used for notes on medical physics activities including visit to India in early 1978.
- Miller visited the Bhaba Atomic Research Centre (BARC), Trombay, Bombay on a World Health Organisation (WHO) assignment. See also A.120, H.164-H.175.
- A.169 Loose leaf refill pad with sheets held together with a shoe lace inscribed on front cover with span dates '17/3/78' and '15/4/79' and the year '1978'.
- Includes notes on nuclear power and nuclear weapons, religious activities, obituary tributes including T.W. Barnard.

Biographical

- A.170 Loose leaf refill pad with sheets held together with a shoe lace inscribed on front cover with the year '1979'.
- Includes notes on religious activities and Weston Park Hospital Day Care Unit, lists of slides for talks, draft letters, lists of things to do, etc, 15 April 1979 - 17 February 1980.
- A.171 Loose leaf pad with sheets held together with string inscribed on front cover with span dates '30/1/80 - 21/6/80' and the year '1980'.
- Includes notes on religious activities, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad and visit, and Weston Park Hospital Day Care Unit, lists of slides, draft letters, lists of things to do, etc.
- A.172 Loose leaf pad with sheets held together with string inscribed on front cover with span dates '21/6/80' and '24/1/81' and the year '1980'.
- Includes notes on religious activities, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, and Weston Park Hospital Day Care Unit, draft letters, lists of things to do, etc.
- A.173 Note pad with sheets held together with string inscribed on the front cover with span dates 'Feb 81' and 'October 81' and the year '1981'.
- Includes notes on religious activities, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, and Weston Park Hospital Day Care Unit, draft letters, lists of things to do, etc.
- A.174 Note pad with sheets held together with string inscribed on the front cover with span dates '26/10/81-22/2/82'.
- Includes notes on religious activities, history of medical physics in Sheffield, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, International Cancer Centre Neyyoor, and Weston Park Hospital Day Care Unit, draft letters, lists of things to do, lists of slides, etc.
- A.175 Note pad with sheets held together with treasury tags inscribed on front cover with span dates '5/6/82 - 1/8/83'.
- Includes notes on religious activities, article on medical physics in Thailand (E.43), Weston Park Hospital Day Care Unit, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, draft letters, lists of things to do, lists of slides etc.

Biographical

- A.176 Loose leaf pad with sheets held together with string inscribed on front cover with span dates '1/8/83 - 30/9/84'.
- Includes notes on history of medical physics in Sheffield, religious activities, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, draft letters, lists of things to do, etc.
- A.177 Loose leaf pad with sheets held together with string inscribed on front cover with span dates '11/10/84 - 4/9/85'.
- Includes notes on religious activities, lists of things to do, lists of slides, etc.
- A.178 Loose leaf refill pad with sheets held together with string inscribed on front cover with span dates '4/9/85 - 14/9/86'.
- Includes notes on religious activities, Weston Park Hospital Day Care Unit, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, lists of things to do, draft letters, etc.
- A.179 Loose leaf note pad with sheets held together with string inscribed on front cover with span dates '14/9/86 - 20/2/88'.
- Includes notes on religious activities, history of Fellowship of Reconciliation, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, lists of things to do, draft letters, etc.
- A.180 Loose leaf pad with sheets held together with string inscribed on front cover with span dates '19/2/88-15/10/88'.
- Includes notes on religious activities, early teaching of radiography, Weston Park Hospital Day Care Unit, *re* role as advisor of Gujarat Cancer Research Institute Ahmedabad, lists of things to do, draft letters, etc.
- A.181 Loose leaf ring bound note pad inscribed on front cover with span dates '18-10-88 → 23/4/89'.
- Includes notes on religious activities, visit to India (Ahmedabad, Bombay and International Cancer Centre, Neyyoor), nuclear questions, draft letters, lists of things to do, lists of slides, etc.

Biographical

- A.182 Loose leaf refill note pad with sheets held together with treasury tags inscribed on front cover with span dates '28 April 1989 - 7/July 1990'.
- Last entry dated 8 July 1990.
- Includes notes on religious activities, nuclear questions, Weston Park Hospital Day Care Unit, draft letters, lists of things to do, lists of slides, etc.
- A.183 Loose leaf refill note pad with sheets held together with treasury tags inscribed on front cover with span dates '8 July 1990' and '16/12/91'.
- Last entry dated 8 December 1991.
- Includes notes on religious activities, Weston Park Hospital Day Care Unit, draft letters, lists of things to do, lists of slides.
- A.184 Loose leaf refill note pad with sheets held together with treasury tags
Used from 16 December 1991 to 19 June 1993.
- Includes notes on religious activities, early medical physics in Sheffield, draft letters, lists of things to do, lists of slides, etc.
- A.185 Cover of loose leaf refill pad with 1 page of notes attached. Date inscribed on cover, 1 October 1995.
- A.186 Notebook used for notes on conference, autobiographical/personal history research, philosophy etc. Some entries dated 1992-1993.
- Contents of notebook relate to that of the loose leaf note pad series but does not appear to form part of the chronological sequence.
- A.187-A.189 Gardening notebooks.
- These notebooks came with a note by Miller's son Tom enclosed at front of A.187: 'Gardening was a scientific experiment. Everything had to be correctly weighed, measured & tested against last year's crop'.
- A.187 'Garden Diary'. In use 1954-1977.
- A.188 'Garden Diary start March 3 1978'. Last dated entry 11 July 1991.

Biographical

A.189 Notebook labelled on front cover '1992 → '. Used for garden notes, plans to 1995.

A.190 Notebook used to record birds seen at various locations including Miller's garden, 1975-1995.

A.191-A.195 ALBUMS AND SCRAPBOOKS 1919-1943

A.191 'Album' inscribed 'Mrs E.W. Miller' (Miller's mother) inside the front cover. Used for autographs and sentiments inscribed by friends and acquaintances 1919-1951.

Miller's own contribution is dated 5 January 1924. Other contributors include George Lansbury MP for November 1935.

A.192 'Album' inscribed 'H. Miller' inside front cover. Used for autographs and sentiments inscribed by friends and acquaintances, 1922-1929.

A.193 'Scraps' scrapbook used for press cuttings, 1934-1941.

A.194 'Drawing book' used for press cuttings, 1941-1942.

A.195 'Drawing book' used for press cuttings, 1942-1943.

A.196-A.227 FAMILY 1912-1987

For 'album' that belonged to Miller's mother see A.191.

A.196-A.206 E.W. Miller (father)

Contents of binder inscribed 'unemployment' but including papers relating to the First World War and questions of conscientious objection and exemption from military service.

Biographical

- A.196 National Health Insurance Book. With Miller's name and address and date of entry into insurance 15 July 1912.
- A.197 Medical Card issued by the Derbyshire Insurance Committee and stamped 12 January 1914.
- 4 National Health Insurance and National Health and Pensions Insurance Members Record Cards. In use 1917-1931.
- A.198-A.200 Correspondence and papers principally relating to questions of conscientious objection and exemption from military service, 1916-1918.
- A.198 1916.
- Includes letter from J. Ramsay MacDonald.
- A.199 1917
- A.200 1918.
- A.201-A.203 Printed papers.
- A.201 *A Labour case against conscription* by Harry Dubery. With a foreword by J. Keir Hardie, M.P. Pamphlet 1913.
- A.202, A.203 *The Tribunal.* Weekly newspaper published by the No-Conscription Fellowship.
- A.202 6 July 1916; 14 December 1916; 21 December 1916 (2 copies).
- A.203 4 January 1917; 11 January 1917; 18 January 1917.
- A.204 Press cutting: letter to a newspaper from E.W. Miller *re* 'Nationalisation and salaries'. N.d. *ca* 1924.

Biographical

- A.205 Photograph of George Lansbury.
- A.206 Cambridge University Chemical Laboratory Breakage Note found with Miller's father's papers.
- A.207, A.208 Mary Miller (wife) (née Bacon)**
- For correspondence between Miller and his wife when he was making visits overseas see A.124, A.126, A.129, A.137 and sections G and H.
- A.207 Letter from Miller to Mary (? his future wife) from St John's College Cambridge, n.d.
- A.208 Golden Wedding 1937-1987.
- Invitation card only.
- A.209-A.227 Robert Miller (son)**
- The surviving correspondence was initiated on Robert's emigration to New Zealand in 1977.
- The sequence also includes press cuttings and photographs found with the correspondence.
- A.209 April - June 1977.
- A.210 July - September 1977.
- A.211 October - December 1977.
- A.212 February - May 1978.
- A.213 July - November 1978.

Biographical

A.214	January - March 1979.
A.215	May - September 1979.
A.216	October - December 1979.
A.217	January - March 1980.
A.218	April - June 1980.
A.219	July - December 1980.
A.220	January - May 1981.
A.221	June - November 1981
A.222	Miscellaneous press cuttings found with correspondence.
A.223-A.227	Photographs found with correspondence.
A.223	Photograph of Dunedin, New Zealand, April 1977.
A.224	7 photographs, December 1977. Includes photographs of Robert Miller and his elder brother John.
A.225-A.227	A numbered sequence of 18 photographs of New Zealand views. 3 folders.

Biographical

A.228 Tom Miller (son)

A.228 Press cutting re Tom Miller's conservation handbook *Self help in the environment*, 24 May 1976.

A.229-A.235 SOCIAL AND PUBLIC ENGAGEMENTS 1933-1993

A chronological sequence.

Includes school prize giving evenings, anniversary dinners, memorial and thanksgiving services.

A.229 1933, 1951.

A.230 1978, 1983.

A.231 1984 (1).

A.232 1984 (2).

A.233 1985, 1986.

A.234 1987-1989.

A.235 1991, 1993.

A.236-A.243 PHOTOGRAPHS 1932-1986

A.236 Cavendish Laboratory Cambridge.

3 photographs, 1 inscribed on back 'Included in Photo Album of H Miller for 1932 entitled "Atom Smasher?"'.

Biographical

- A.237 Opening of the David Morrison Research Department, Sheffield National Centre for Radiotherapy, 25 November 1949.

Group photograph including Miller.
- A.238 British Institute of Radiology Dinner, 1968.

Miller was Vice President.

1 photograph.
- A.239 British Institute of Radiology Dinner, 1969.

Miller was President of the Institute.

5 photographs including 1 with J. Rotblat.
- A.240 O.B.E., 1972.

1 photograph.
- A.241 Northern Group Hospital Physicists Association 40th Anniversary Meeting, Leeds, 6-7 May 1983.

4 photographs.
- A.242 Presentation of money raised for Weston Park Hospital Day Care Unit, 14 March 1986.

1 photograph.
- A.243 Photograph album recording Miller's year as President of the British Institute of Radiology, 1968-1969.

Biographical

A.244-A.260	PRESS CUTTINGS	1932-1995
A.244	'Atom - Splitting'. Contents of envelope so inscribed: press cuttings <i>re</i> splitting of atom by J.D. Cockcroft and E.T.S. Walton at the Cavendish Laboratory, Cambridge, 1932.	
A.245	<i>Peace News</i> , London, 17 May 1940.	
A.246	'End this atomic nightmare' by Harold C. Urey, <i>John Bull</i> , 5 January 1946.	
A.247	Reports on 'Calder Hall the first nuclear power station' from the <i>Manchester Guardian</i> , 16 October 1956.	
A.248	'Zeta'. Contents of envelope so inscribed: press cuttings <i>re</i> Zeta (Zero Energy Thermonuclear Apparatus) programme at Harwell, 1958.	
A.249-A.260	'Interesting cuttings'. Contents of folder so inscribed divided into twelve for ease of reference: press cuttings, duplicated and typescript papers, manuscript notes and correspondence <i>re</i> scientific, religious and political questions, 1946-1995. See A.260 for Miller's published account of 'Some experiences in technical aid projects', n.d.	

SECTION B

CAMBRIDGE

B.1-B.36

B.1-B.22 NOTEBOOKS

B.23-B.25 RESEARCH REPORTS

B.26-B.31 THESIS

B.32-B.36 OFF-PRINTS

Cambridge

B.1-B.22

NOTEBOOKS

1927-1934

- B.1 Staveley Grammar School notebook inscribed inside front cover 'H. Miller St Johns' and stamped on first page '26 Oct '27'.
- B.2 Staveley Grammar School notebook inscribed on first page 'Calculus Mr Knox-Shaw Michaelmas Term 1928'.
- B.3 Notebook inscribed inside front cover 'Miller John's' and on page opposite front cover 'Practical Physics Mr Bedford' and 'Mich. 1928'.
- Used for notes on heat and other experiments from '12 Oct [1928]' to '21.11.28'.
- B.4 Notebook inscribed on first page 'Practical Physics', 'Miller Johns' and 'Mich. 28'.
- Continuation of preceding. Used for notes on experiments from 'Nov 23 1928' to '5.12.28'.
- B.5 Notebook inscribed inside front cover 'H. Miller St John's College Cambridge' and on page opposite the inside front cover 'Practical Physics Optics G.F.C. Searle'. With list of 'Heat Expts in Bedford' inside back cover.
- Used for notes on experiments from '16.1.29' to '13.5.29' and from '11.10.29'. Last dated experiment '20.11.29'. Some subsequent undated work.
- B.6 Staveley Grammar School notebook inscribed on spine 'Rutherford Const. of Matter' and on page opposite inside front cover 'Mich. Term 1929 Prof. Sir E. Rutherford. Constitution of Matter'. This page is also stamped '18 Jan. 1927'.
- Probably used for notes on lectures by Rutherford.
- B.7 Notebook inscribed inside front cover 'H. Miller St John's College' and 'Practical Physics Magnetism and Electricity'. Contents list inside back cover.
- Work dated between '17.1.30' and '5.5.30'.

Cambridge

- B.8 'Physics Book' notebook inscribed inside front cover 'H. Miller St John's' and with list of experiments inside back cover. Many graphs intercalated.
- Used for work in 1930.
- B.9 Notebook inscribed inside front cover 'H. Miller St John's College Cambridge' and on first lined page 'Heat and Thermodynamics (Roberts) 9.9.30'.
- Used for notes on *Heat and thermodynamics* by J.K. Roberts, *The kinetic theory of gases* by E. Bloch '30.10.30', *Report on radiation and the quantum-theory* and *The dynamical theory of gases* by J.H. Jeans '20.11.30'.
- B.10 Notebook inscribed on first page 'Ratcliffe Electrical Oscillations and Waves. Mich. Term 1930'.
- Probably used for notes on lectures by J.A. Ratcliffe.
- B.11 Notebook inscribed on spine 'Blackett [sic]', on inside front cover 'H. Miller St John's' and on first lined page 'Mich. Term 1930 P.M.S. Blackett Light'.
- Probably used for notes on lectures by Blackett.
- B.12 Notebook inside front cover 'H. Miller St Johns' and on front page 'Radioactivity' and 'Makower-Geiger'.
- Includes notes on Miller's reading including *Isotopes* by F.W. Aston and *X rays and Crystal Structure* by W.L. Bragg.
- One entry only *re* Bragg dated '9.11.30'.
- B.13 Notebook inscribed inside front cover 'H. Miller John's', on page opposite the inside front cover 'Atomic Physics' and on first lined page 'Structure of the Atom Andrade 15.12.30'.
- Used for Miller's notes from E.N da C. Andrade's *Structure of the Atom* and other notes including those from [R.A.] 'Fisher Statistical Methods for Research Workers 28/12/42' and 'Los Alamos Lectures Nov 30 1943'.
- B.14 Notebook inscribed inside front cover 'H. Miller Johns' and on page opposite inside front cover 'Mott'.
- Probably used for Miller's notes on lectures by N.F. Mott. First page of notes dated '14/1/32'.

Cambridge

- B.15 Notebook inscribed on page opposite inside front cover 'H. Miller John's'.

Used for notes of Miller's reading in the scientific literature. List of the scientific papers read by Miller is at the back of the notebook. Latest bibliographical reference 1932.
- B.16 Notebook inscribed inside front cover 'H. Miller Johns' and on page opposite 'Mr Cockroft [sic] Electrodynamics'. N.d.

Probably used for notes on lectures by J.D. Cockcroft.
- B.17 Notebook inscribed on page opposite inside front cover 'Mr Dymond Properties of Matter'. N.d.
- B.18 Notebook inscribed on front cover 'Fowler Dynamics of Gases' and inside front cover 'H. Miller John's'. N.d.

Probably used for notes on lectures by R.H. Fowler.
- B.19 Notebook inscribed inside front cover 'H. Miller Johns' and on page opposite 'Mr Stead'.

Probably used for lectures by Stead. The first page of notes is headed 'Thermionics'.
- B.20 Notebook inscribed inside front cover 'H. Miller John's' and on page opposite 'Wilson Quantum Theory of Spectra'. N.d.

Probably used for notes on lectures by C.T.R. Wilson.
- B.21 Notebook inscribed inside front cover 'H. Miller 28 Magrath Avenue Cambridge' and on page opposite inside front cover 'Disintegration. Collected Results'. Contents list inside back cover. A few loose items are enclosed in the notebook.

Work dated in 1933-1934.
- B.22 Notebook used for record of experimental work dated February - June 1934.

Cambridge

B.23-B.25 RESEARCH REPORTS 1931-1933

B.23 'Report of the Work carried out during 1931-32'

Title sheet and 19pp typescript.

B.24 'Report on the work of H. Miller, B.A. at the Cavendish. 1932 33.'

Title sheet and 2pp typescript.

B.25 'Report of the work carried out during 1932-33 by H. Miller'.

Title sheet and 18pp typescript with form letter from Department of Scientific and Industrial Research returning report to Miller's supervisor, Lord Rutherford, 18 July 1934.

B.26-B.31 THESIS 1935

Typescript carbon of Miller's PhD thesis 'The transmutation of light elements by alpha particles'. Awarded 1935.

The preface explains that the experiments on which it was based were made in the Cavendish Laboratory during the period 1931-1933:

'The work using radium C', recorded in Chapters II, III and IV, was done in collaboration with Mr W.E. Duncanson, of Trinity College. The experiments recorded in Chapters V and VI were done in collaboration with Dr J. Chadwick.'

6 folders.

B.32-B.36 OFF-PRINTS 1932-1934, 1940

'Cavendish reprints'. Contents of Miller's folder so inscribed divided into five for ease of reference: off-prints, 1932-1934, 1940.

1940 off-print is by L.H. Gray and John Read at the Mount Vernon Hospital and Radium Institute, Northwood, Middlesex.

SECTION C

EARLY TELEVISION

C.1-C.38

C.1-C.28

E.M.I. [ELECTRICAL AND MUSICAL INDUSTRIES
LTD] RESEARCH DEPARTMENT REPORTS

C.29-C.31

OFF-PRINTS AND OTHER PUBLISHED PAPERS

C.32-C.38

MISCELLANEOUS PAPERS *RE* HISTORY OF
TELEVISION

Early television

C.1-C.28	E.M.I. [ELECTRICAL AND MUSICAL INDUSTRIES LTD] RESEARCH DEPARTMENT REPORTS	1934-1942
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A chronological sequence of reports chiefly by Miller, some in collaboration.

- | | |
|-----|---|
| C.1 | 'Report on iconoscope with cage and guard ring round mosaic', 22 October 1934.

5pp typescript + figures. |
| C.2 | 'Preliminary report. Photo-conduction effect in transmitting tubes', 14 August 1935.

18pp typescript + figure. |
| C.3 | 'The photo-conduction effect in transmitting tubes. II', 12 September 1935.

4pp typescript. |
| C.4 | 'The photoconduction effect in transmitting tubes III', 10 December 1935.

8pp typescript. |
| C.5 | 'Photo-conduction effect in transmitting tubes IV', 9 April 1936.

10pp typescript. |
| C.6 | 'Experiments on possible alternatives to mica as a dielectric in transmitting emitrons', 4 January 1937.

4pp typescript. |
| C.7 | 'Methods of varying modification of picture transformer', 20 February 1937.

2pp typescript. |

Early television

- C.8 'Summary of suggested article on photoconductive tubes' (with J.W. Strange), 9 April 1937.

2pp typescript.

'Variable modification with magnetic lens' (with G. Lubszynski), 2 February 1937. Found attached to preceding.

1p typescript.
- C.9 'Correction of magnetic electron lenses' (with O. Klemperer), 6 October 1937.

2pp typescript + figures.
- C.10 'The double magnetic focussing coil' (with O. Klemperer), 11 March 1938.

3pp typescript + figures.
- C.11 'Improvement in magnetic focussing coil', 25 May 1938.

2pp typescript.
- C.12 'Improvement in magnetic focussing coil (with J.E.I. Cairns), 2 June 1938.

2pp typescript.
- C.13 'A method of reducing aberrations in magnetic lenses', 26 October 1937.

3pp typescript with '1938' written at the top of the first page.

'Improvement in magnetic focussing coil', 16 June 1938.

1p typescript found attached to preceding.
- C.14 'Magnetic screening in the super emitron', 15 July 1938.

6pp typescript.
- C.15 'Picture transformers - for use in film studios etc', 28 October 1938.

3pp typescript.

Early television

- C.16 'A double sided mosaic', 6 December 1938.
2pp typescript.
- C.17 'Magnetic lens aberrations. 1st report. Spherical aberration', 25 January 1939.
8pp typescript + figures.
- C.18 'Magnetic lens characteristics. Report 2. Focussing conditions in the super emitron focussing system', 15 February 1939.
5pp typescript and figures.
- C.19 'Picture multiplier with solid multiplying electrodes' (with G. Lubszynski), 3 October 1939.
6pp typescript and diagrams.
- C.20 'Magnetic lens characteristics. Report No. III', 7 December 1939.
10pp typescript + figures.
- C.21 'The use of the Knudsen gauge' by H. Hirsch, March 1941.
4pp typescript + figures.
- C.22 'An experimental method for demountable gear investigations of orthicon scanning', February 1942.
3pp typescript.
- C.23 'Dispersion of an electron beam due to its own space charge in the presence of an axial magnetic field' by G. Lubszynski, 13 March 1942.
11pp typescript.

Early television

- C.24 'Computations of different effects possibly responsible for the loss of focus in the orthicon and experiments for curing these defects' by G. Lubszynski, 15 March 1942.
4pp typescript.
- C.25 'Limiting apertures in the orthicon anode', no author, 23 March 1942.
3pp typescript.
- C.26 'Theory of electrostatic scanning in the orthicon', March 1942.
14pp manuscript and typescript draft.
- C.27 'The present position of the orthicon?', March 1942.
9pp typescript + figures.
- C.28 'Construction of a nomogram for the R.C.A. deflection plates', March 1942.
2pp manuscript + figure.
- C.29-C.31 OFF-PRINTS AND OTHER PUBLISHED PAPERS 1937-1939, 1957**
- Off-prints and other published papers chiefly by Miller and E.M.I colleagues.
3 folders.
- C.29 is a booklet on the The London Television Station Alexandra Palace, May 1937.
- C.32-C.38 MISCELLANEOUS PAPERS *RE* HISTORY OF TELEVISION 1975-1991**
- C.32 'The early development of the television camera' by J.D. McGee, December 1975.
76pp duplicated typescript and figures.

Early television

- C.33 *A. A. Campbell Swinton* by T.H. Bridgewater (Royal Television Society monograph 1, 1982).
- C.34-C.37 International Conference on the History of Television From Early Days to the Present, Institution of Electrical Engineers, London, 13-15 November 1986.
- C.34 List of participants; general information.
- C.35 Published volume of conference papers.
- C.36 'Additional papers not available at the conference'.
- C.37 Miscellaneous papers *re* history of television including further papers presented at the conference.
- C.38 Correspondence, 1984, 1986, 1991 *re* history of television and biography of A.D. Blumlein.

SECTION D	MEDICAL PHYSICS	D.1-D.312
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D.1-D.257	TOPIC FOLDERS
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D.258-D.312	MISCELLANEOUS
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D.1-D.257	TOPIC FOLDERS	1926-1982
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A sequence of Miller's folders arranged alphabetically by folder title. The contents are principally off-prints and duplicated papers relating to topics in medical physics.

The contents of Miller's folders have been divided where appropriate for ease of reference.

D.1	'After Loading'. Summary of Hospital Physicists' Association Meeting on Gynaecological AfterLoading Techniques, Edinburgh, 1980; equipment brochure, n.d.
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D.2-D.7	'Autoradiography'. Off-prints, duplicated papers, 1949-1962, n.d. 6 folders.
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D.8	'Bioengineering'. Off-print, 1974; Imperial College Postgraduate Course Prospectus, n.d.
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D.9-D.12	'Cobalt Teletherapy'. Off-prints, 1955-1968; Sheffield National Centre for Radiotherapy duplicated paper 'The Treatment of Carcinoma of the Bladder by High Energy X-Rays and Cobalt Beam Therapy', 31 May 1962. 4 folders.
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Medical physics

- D.13-D.19 'Diagnostic Protection Personnel'.
Off-prints, duplicated papers, 1951-1968, n.d.
7 folders.
- D.20-D.23 'Diagnostic X rays'.
Off-prints and duplicated papers, 1957-1974.
4 folders.
- D.24-D.26 'Electronics Misc.'
Duplicated and printed papers, 1968-1976, n.d., including (D.25) 'Second Draft' of 'Report on Advisory Group on Strategies for Improving Maintenance of Nuclear Medicine Instruments in Developing Countries 8-12 December 1975', 3 February 1976.
3 folders.
- D.27 'E.M.I Scanner'.
Correspondence, 1974-1975.
- D.28-D.31A 'Expt Scripts Isotopes'.
Off-print, 1938; duplicated Regional Medical Physics Department papers, n.d.
5 folders.
- D.32 'Hazards Misc Gofman Taplin papers'.
Duplicated papers of J.W. Gofman and A.R. Tamplin, 1970.
- D.33-D.41 'Immuno Electrophoresis / Electrophoresis'.
Off-prints and equipment booklets, 1954-1965, n.d.
9 folders.

Medical physics

- D.42-D.44 'Insulin Studies'.
Off-prints, 1954-1963.
3 folders.
- D.45 'Iodine 131 Fallout Strontium etc'.
Off-prints 1958-1974.
- D.46 'Iodine Metabolism'.
Printed and duplicated papers, 1955 - ?1969 (latest bibliographical reference).
- D.47 'Isotope Laboratories'.
Miscellaneous papers, 1962-1970.
- D.48-D.58 'Isotope Organisation of service'.
Correspondence, off-prints and other printed and duplicated papers, 1950-1974.
11 folders.
- D.59-D.69 'Isotope Scanning Theory'.
Off-prints, abstracts, etc, 1963-1975.
11 folders.
- D.70, D.71 'Isotopes Gamma Cameras'.
Review of abstracts of literature on the scintillation camera and off-prints, 1969-1973.
2 folders.

Medical physics

- D.72, D.73 'Isotopes Misc Exchanges Ca Zn Colloids Cu'.
Off-prints, 1949-1962.
2 folders.
- D.74 'Isotopes / Residual Urine'.
Duplicated papers, 1963-1969.
- D.75-D.78 'Isotopes Scanning General'.
Off-prints, 1959-1975.
4 folders.
- D.79 'Isotopes Standard measurements'.
Off-prints, 1948-1960.
- D.80-D.82 'Management in hospitals Revans'.
Duplicated papers by R.W. Revans, 1967-1968.
3 folders.
- D.83 'Medical Physics Careers'.
Printed and duplicated papers, 1966-1970.
- D.84-D.87 'Medical Physics General'.
Miscellaneous typescript, duplicated and printed papers, *ca* 1960-1973.
4 folders.
- D.88-D.96 'Nuclear Power Controversy'.
Duplicated and printed papers, correspondence, press cuttings, 1974-1977.
9 folders.

Medical physics

- D.97-D.103 'Protection Diagnostic Depts'.
Off-prints and other printed and duplicated papers, 1946-1974.
7 folders.
- D.104-D.106 'Protection Effects on Foetus'.
Printed and duplicated papers, 1963-1968.
3 folders.
- D.107-D.109 'Protection Isotopes Waste Disposal'.
Off-prints, 1951-1959.
3 folders.
- D.110 'Protection Max. Concentration'.
Printed and duplicated papers, 1962, 1971.
- D.111 'Protection Neutrons'.
Publication, 1957.
- D.112-D.114 'Protection Radium handling'.
Off-prints, 1934-1962.
3 folders.
- D.115, D.116 'Protection Ward Hazards from Radium Work Study'.
Reports on studies of radiation hazards, 1962, 1964.
2 folders.

Medical physics

- D.117-D.120 'Radiation Hazard ABCC [Atomic Bomb Casualty Commission]'.
Off-prints and ABCC reports, 1953 - 1966-67.
4 folders.
- D.121 'Radiation hazard Blood effects'.
Off-print, 1946.
- D.122-D.127 'Radiation Hazard Fall out'.
Off-prints and other publications 1951-1966.
6 folders.
- D.128-D.133 'Radiation measurements Ion chambers'.
Off-prints, 1926-1960.
6 folders.
- D.134-D.139 'Radiation Physics Fundamental Dosimetry ICRU [International Commission on Radiological Units and Measurements] 1956 NBS [US National Bureau of Standards] 87 89'.
Off-prints and duplicated papers, 1934-1963.
6 folders.
- D.140-D.144 'Radiation Protection Dosage in Diagnostic Tests'.
Off-prints, duplicated papers, press-cuttings and manuscript notes, 1957-1975.
5 folders.
- D.145-D.152 'Radiation Protection Doses in Diagnosis Pedascopes Patient Gonad Doses'.
Off-prints and duplicated papers, 1947-1972.
8 folders.

Medical physics

- D.153-D.159 'Radiation Protection Film Badge Dosimetry'.
Off-prints, 1945-1972.
7 folders.
- D.160-D.162 'Radiation Protection Misc Reports'.
Published and duplicated papers, 1956-1973.
3 folders.
- D.163, D.164 'Radiation Protection Protective Shielding'.
Off-prints, 1946-1951.
2 folders.
- D.165-D.171 'Radiation Safety Cost Benefit Analysis'.
Typescript and duplicated notes and papers and correspondence, 1962-1973.
Include papers presented at International Radiation Protection Association Conference, Brighton, Sussex, May 1970.
7 folders.
- D.172 'Radiation Safety 10 Day Rule'.
Typescript and duplicated papers, 1974.
- D.173-D.182 'Radiobiology Biological effects'.
Abstracts and off-prints, 1940-1962.
10 folders.
- D.183-D.195 'Radiobiology General Effects'.
Off-prints and other printed and duplicated papers, 1941-1973.
13 folders.

Medical physics

- D.196-D.204 'Radiobiology LET effects'.
Off-prints, 1938-1957.
9 folders.
- D.205 'Radiography Statistics Population Figures'.
Correspondence and papers from Department of Health and Social Security
re annual growth of radiography, 1974.
- D.206 'Radiotherapy Electron Therapy'.
Off-prints, 1940-1961.
- D.207-D.211 'Radiotherapy Linear Accelerator'.
Off-prints, 1943-1965, n.d.
5 folders.
- D.212 'Radiotherapy Megavoltage'.
Off-prints, 1956-1975.
- D.213-D.217 'Radiotherapy Moving Field'.
Off-prints, 1949-1957.
5 folders.
- D.218-D.222 'Radiotherapy Physics Interstitial Radium'.
Off-prints and other published papers, 1930-1956, n.d.
5 folders.
- D.223-D.231 'Radiotherapy Physics X ray Dose Distributions'.
Off-prints, 1935-1955.
9 folders.

Medical physics

- D.232-D.234 'Radiotherapy Properties of Supervoltage Xrays'.
Off-prints, 1940-1958.
3 folders.
- D.235-D.239 'Radiotherapy Van de Graef'.
Off-prints and other printed papers, 1937-1982.
5 folders.
- D.240 'Scanning Lungs'.
Off-prints, 1968-1970.
- D.241 'Technical Aid General'.
Off-prints, 1962-1965.
- D.242, D.243 'Thyrotoxicosis Diagnostic In-Vivo'.
Off-prints, 1956-1968.
2 folders.
- D.244-D.252 'Ultrasonics'
Off-prints and other printed papers, 1951-1974.
9 folders.
- D.253-D.255 'X-Ray Diagnosis History'.
Off-prints, 1937-1967.
3 folders.

Medical physics

- D.256, D.257 'X ray Dosimetry'.

Off-prints and ICRU [International Commission on Radiological Units and Measurements] Report, 1945-1959.

2 folders.
- D.258-D.312 MISCELLANEOUS 1930-1995**
- D.258-D.282 Miscellaneous duplicated and printed papers, 1930-1990.

25 folders.
- D.283-D.286 Contents of Miller's untitled folder: miscellaneous off-prints and duplicated and typescript papers divided into four for ease of reference, 1950-1973.

Includes guide to Weston Park Hospital Sheffield for visitors, 1970 and radiological protection code of practice, 1973.
- D.287, D.288 Medical Research Council special reports.
- D.287 No.267 Researches on the Radiotherapy of Oral Cancer by C.A.P. Wood and J.W. Boag (HMSO 1950).
- D.288 No.295 Leukaemia and Aplastic Anaemia in Patients Irradiated for Ankylosing Spondylitis (HMSO 1957).
- D.289-D.300 'Early History of Isotopes, etc'. Contents of Miller's box folder so inscribed divided into twelve for ease of reference: correspondence 1981, 1983, off-prints, 1931-1983.
- D.301-D.307 'Radiology History'. Contents of Miller's folder so inscribed divided into seven for ease of reference: correspondence and papers *re* Radiology History Committee, Radiology History and Heritage Trust and the Röntgen Centenary Congress, 1995, 1988-1995.

Medical physics

- D.308, D.309 'Mole'. Contents of envelope so inscribed divided into two for ease of reference: correspondence with R.H. Mole, 1989 and papers *re* radiological hazards to patients, including copy of report of Committee of Inquiry chaired by Lord Adrian (HMSO 1966) and photocopy of paper by Miller and J.C. Matthews 'Radiation hazards from diagnostic radiology', *Br.J. Radiol.*, **42**, November 1969. 1966-1989.
- See also D.310.
- D.310 Correspondence *re* history of medical physics, genetic effects of radiation etc, 1981, 1989.
- Includes letter from R.H. Mole, 2 March 1989.
- D.311, D.312 'Examination of errors in surface counting using a single crystal detector'.
- Thesis by Susan B. Sherriff, Sheffield Regional Medical Physics Department, n.d., latest bibliographical reference, 1972.
- 2 folders.

SECTION E

LECTURES AND PUBLICATIONS

E.1-E.80

E.1-E.62

DRAFTS

E.63-E.78

OFF-PRINTS

E.79, E.80

REVIEWS

Lectures and publications

E.1-E.62 DRAFTS [1934]-1985, n.d.

E.1-E.3 'Scientific Talks'. Contents of envelope so inscribed divided into three for ease of reference.

E.1 'Transmutation of Atoms', n.d. [1934 or later].

14pp manuscript notes on history of developments in the understanding of atoms to 1934.

E.2 11pp manuscript notes for general talk on recent developments in physics [?1935].

E.3 Illustrative material for talks.

E.4 'India and the War', 14 December 1939.

11pp manuscript notes.

E.5 'Science for war or peace', Mansfield [Nottinghamshire] Peace Group, 2 November [?1954].

3pp manuscript notes for Miller's talk; agenda for meeting of Mansfield Peace Group.

E.6 'Nuclear Weapons and Genetics'.

7pp typescript draft, with manuscript additions and corrections, of paper published in *Reconciliation*, A monthly review of things of peace, vol. 32, no.7, July 1955.

See also E.70.

E.7 'Science in Education', 13 February 1956.

10pp manuscript draft.

Lectures and publications

- E.7A 'The Atom in Medicine'.

Two 6pp typescript drafts, with slight manuscript revision, of paper published in *Reconciliation*, A monthly review of things of peace, vol. 33, no. 3, March 1956.

See also E.71.
- E.8 'Radiation Hazards', n.d [latest bibliographical reference 1958].

8pp typescript with manuscript additions and corrections.
- E.9 Untitled but headed with location Chesterfield, [Derbyshire], n.d. but after 1958.

Relates to opposition to nuclear weapons and CND (Campaign for Nuclear Disarmament).

10pp manuscript draft.
- E.10 'Atoms for Peace', Abingdon, Oxfordshire, August 1960.

21pp manuscript draft.
- E.11 'Social Implications of Technological Revolution', Totley, Sheffield, South Yorkshire, 3 October 1960.

4pp manuscript notes.
- E.12 'A Technical Aid Project in Ghana', n.d. [1966].

Refers to the February 1966 coup that deposed President Nkrumah.

8pp manuscript notes.
- E.13-E.22 'Talks Misc Isotopes Code of Practice'. Contents of folder so inscribed: typescript and manuscript notes and drafts, 1967-1974, n.d.
- E.13 'Ultra-sound and its applications', Sheffield & District Radiographic Society, 1 February 1967.

Duplicated notice of lecture; 8pp typescript notes.

Lectures and publications

- E.14 Postgraduate course in Pathology 1966/67 General Lecture on 'Medical Aspects of Radiation', 15 February [1967].
9pp typescript notes with manuscript additions and corrections.
- E.15 'Isotopes in organ visualisation', 10 October 1968.
8pp typescript notes with manuscript additions and corrections, also headed in addition to title and date 'Med. Chi.'
- E.16 'Isotope Services in the Sheffield Region', Northern Group Hospital Physicists' Association, Leicester, 13 November 1970.
10pp typescript draft with manuscript additions and corrections
- E.17 'Whole Body Counters - A Review'.
10pp typescript notes with manuscript additions and corrections, 10 January 1972.
- E.18 Lecture on isotope studies of renal tract function, Children's Hospital [? Sheffield], 12 April 1973.
6pp typescript draft with manuscript additions and corrections, 11 April 1973.
- E.19 'The Scope of the Code [of Practice] and General Protection Measures', 14 November 1973.
6pp typescript draft with manuscript additions and corrections, 9 November 1973.
- E.20 Postgraduate Lecture in Obstetrics & Gynaecology 'Isotope Techniques in Medicine', 25 June 1974.
7pp typescript notes with manuscript additions and corrections, 24 June 1974.
- E.21 'Modern Technical Procedures in Clinical Practice' and 'Isotope Techniques'.
Manuscript notes for lectures found stapled together. The first page in addition to the title 'Modern Techniques ...' also has at the head a possible date '27/6' without the year and a location 'Accra', Ghana.

Lectures and publications

- E.22 Three untitled lectures on radiological protection, n.d.
- 'Lecture 1'. 4pp typescript notes with manuscript additions and corrections.
- 'Lecture 2'. 4pp typescript notes with manuscript additions and corrections.
- 'Lecture 3'. 4pp typescript notes with manuscript additions and corrections.
- E.23-E.27 'Talks Misc General Med Phys Zuckerman'. Contents of folder so inscribed: typescript notes and drafts, 1970-1974.
- E.23 'Applications of Physics and Clinical Medicine', Leicester, 26 November 1970.
- 10pp typescript notes.
- E.24 'The future role of the Hospital Physicist', Annual Conference Hospital Physicists' Association, Cardiff, 29 September 1972.
- 4pp typescript draft of Miller's lecture.
- 8pp typescript draft of lecture with the same title by P.N.T. Wells beginning 'Professor Miller has discussed the dual roles in the health service of graduate scientists, and physicists in particular, as scientific consultants and organisers. I am going to present a view of the NHS as a whole, and to suggest how the service may be developed as a science-based industry to which medical physics would make appropriate contributions'.
- 1p typescript report on the Cardiff conference.
- E.25 'Medical Physics'.
- 6pp typescript notes with manuscript additions and corrections, 29 January 1973.
- E.26 'Physics in Medicine', Faculty of Engineering, [?University of Sheffield], 20 March 1974.
- 19pp typescript draft, with manuscript additions and corrections, 19 March 1974.

Lectures and publications

- E.27 'The Outlook for the Profession of Radiography, Sheffield and District Radiographic Society, 9 October 1974.
- 7pp typescript draft, 8 October 1974.
- E.28-E.34 Contents of folder divided into seven for ease of reference: correspondence, background papers and photographs *re* preparation of lecture or lectures, 1955-1970, n.d.
- A letter from Miller of 27 January 1970 refers to an 'invitation to talk to local administrators on some aspects of the scientific service in hospitals' (see E.35). A letter to Miller of 18 June (no year) provides information for Miller's lecture on 'Modern Technical Procedures'. No drafts by Miller were found in the folder.
- E.35 'Thoughts on the Scientific Service', Institute of Hospital Administrators, Sheffield Region North Branch, 22 April 1970.
- 16pp typescript 'Draft C', with slight manuscript revision.
- E.36-E.38 'Whither Nuclear Medicine: Technological and Interdisciplinary Aspects', Royal College of Surgeons, London, 21 May 1971.
- Miller gave this paper at a discussion meeting jointly sponsored by the British Institute of Radiology, the British Nuclear Medicine Society, the Hospital Physicists' Association and the Section of Radiology of the Royal Society of Medicine.
- E.36 3pp typescript summary of Miller's paper; illustrative material for slides.
- 2pp duplicated typescript summary of the discussion.
- Photocopy of 'Editorial "Whither Nuclear Medicine?" ' by Miller from *Clinical Radiology*.
- E.37, E.38 Correspondence from colleagues in the USA and United Kingdom *re* Miller's paper on the future of nuclear medicine, March - May 1971.
- 2 folders.
- E.39 'Christianity and Science', 16 November 1972.
- 31pp typescript draft with manuscript additions and corrections.

Lectures and publications

- E.40 'Paper on Zuckerman Report', Technicians Weekend, Lodge Moor
 [?Hospital], Sheffield, 4 May 1973.
- 7pp typescript draft with manuscript and additions, 3 May 1973.
- E.41 'Christians in an age of science', n.d. [1975 or later].
- 9pp manuscript notes; 1p manuscript 'Comments'; 10pp manuscript draft.
- E.42 'Buddhism', n.d. [1976 or later].
- 6pp manuscript notes.
- E.43 'Medical Physics in Thailand', 1977.
- 5pp typescript of paper for American Association of Physicists in Medicine
 (AAPM) *Newsletter*, correspondence, 1976, 1977; AAPM *Newsletter*,
 September/October 1976.
- E.44 'Nuclear Power and Third World', 1 June 1978.
- 5pp manuscript notes.
- E.45 'Nuclear Disarmament', 14 February [1983 or later].
- 9pp manuscript notes.
- E.46 'Religious attitudes: Liberalism and Authoritarianism', 27 April 1985.
- Miller gave this talk at a conference on 'Changing Attitudes', Whirlow
 Grange, Sheffield.
- 12pp manuscript notes; conference programme.
- E.47 'As far as the eye can see', n.d.
- 10pp manuscript notes; illustrative material.

Lectures and publications

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| E.48 | 'Christian attitude to atomic energy', n.d.
6pp manuscript notes. | |
| E.49 | 'Christian Pacificism', n.d.
8pp manuscript notes.
6pp manuscript notes. | |
| E.50 | 'Christians [unidentified symbol] H bomb', n.d.
7pp manuscript notes. | |
| E.51 | 'Faith of a Scientist', n.d.
10pp manuscript notes. | |
| E.52 | 'The idea of a permissible dose', n.d.
6pp manuscript notes. | |
| E.53 | 'Impact of modern technical developments on world community and the Christian citizen', n.d.
8pp manuscript notes. | Science |
| E.54 | 'Influence of Technology in the Hospital', n.d.
10pp typescript draft with manuscript additions and corrections. | |
| E.55 | 'Megavoltage Therapy in Great Britain', n.d.
18pp typescript draft with slight manuscript revision. | |
| E.56 | 'A modern challenge of science to religion', n.d.
12pp manuscript draft. | |

Lectures and publications

E.57	'Non-violent resistance', n.d. 3pp manuscript notes.	
E.58	'Nuclear disarmament', n.d. 6pp manuscript notes, also headed 'Alfreton, Ripley'.	
E.59	'Radiation Hazards', n.d. 4pp manuscript notes, also headed 'Leeds 2'.	
E.60	'Use of Radioactive Isotopes in Medicine', n.d. 5pp typescript draft.	
E.61	Untitled 5pp notes beginning 'Some questions Christian people should be asking themselves about scientific developments of [our] time'.	
E.62	Miscellaneous notes, possibly related to lectures and/or publications by Miller, n.d.	
E.63-E.78	OFF-PRINTS	1934-1991
E.63-E.78	Off-prints of Miller's publications, 1934-1991. 16 folders.	
E.79, E.80	REVIEWS	1950
E.79, E.80	'Book Reviews'. Contents of envelope so inscribed: reviews of Miller and J. Walter's <i>A short textbook of radiotherapy</i> , 1950. 2 folders.	

SECTION F

SOCIETIES AND ORGANISATIONS

F.1-F.223

F.1-F.17	BRITISH INSTITUTE OF RADIOLOGY
F.18	BRITISH NUCLEAR MEDICINE SOCIETY
F.19	BRITISH RADIOLOGICAL PROTECTION ASSOCIATION
F.20-F.28	BRITISH SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE
F.29-F.32	HER MAJESTY'S INSPECTORATE OF POLLUTION
F.33-F.37	HOSPITAL PHYSICISTS' ASSOCIATION
F.38	INSTITUTE OF PHYSICAL SCIENCES IN MEDICINE
F.39	INSTITUTE OF PHYSICS
F.40-F.130	PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS
F.131-F.207	WESTON PARK HOSPITAL DAY CARE UNIT, SHEFFIELD
F.208-F.223	WINDSCALE INQUIRY

Societies and organisations

F.1-F.17	BRITISH INSTITUTE OF RADIOLOGY (BIR)	1953-ca 1973
F1-F.4	'B.I.R.' Contents of folder so inscribed: printed and duplicated papers, 1953-1975.	
F.1	Handbook, 1953.	
F.2	Additions and corrections to the 1953 edition of the Institute Handbook, 1957.	
F.3	Handbook, 1962.	
F.4	Handbook, 1967.	
F.5	BIR paper 'Some notes on the history of events at the Institute leading to the present negotiations with the Faculty of Radiologists' by R.D. Hoare, 13 November 1968. Joint BIR and Royal College of Radiologists 'Statement of Co-operation' signed by the Presidents of the two organisations, May 1975.	
F.6-F.17	'B.I.R. Documents'. Contents of folder so inscribed: printed and duplicated papers <i>re</i> the BIR's Radiation Protection Committee 1963-1973, n.d.	
F.6	Report to BIR Radiation Protection Committee 'Implementation of the Second Report of the Adrian Committee on Radiological Hazards to Patients', 22 May 1963.	
F.7	BIR Radiation Protection Committee Memorandum on Implementation of the Second Report of the Adrian Committee, n.d. [?1963].	
F.8	'Extract from "The Lancet" 9 January 1965, page 96, "Annotation" How Many Codes?' with draft minutes of special meeting of members of BIR Standing Committees, 10 June [?1965]. Papers relate to new radiological code of practice.	

Societies and organisations

- F.9 'Code of Practice for Protection of Persons against Ionising Radiations Addendum to Memorandum sent to M.O.H. [Ministry of Health] Details of Difficulties in Interpretation & Implementation', n.d [?1966].
- Circular to members of BIR on the code of practice for protection against ionising radiations, 1 October 1966.
- F.10 BIR Radiation Protection Committee 'Statement on the Radiation Hazard to Female Radiographers', 12 April 1967.
- The statement as circulated to BIR members, July 1967.
- F.11 Editorial for *British Journal of Radiology* on 'Diagnostic Radiology in Relation to the Menstrual Cycle', September 1968.
- Letter to the Editor from F. Ellis on the same topic, November 1968.
- F.12 'Comments on Maximum Permissible Dose with special reference to pregnant staff' by G.M. Ardran with related correspondence between Ardran and W.A. Langmead, November 1968.
- F.13 BIR Radiation Protection Committee paper 'Notes on the Problem of Permissible Dose Levels in Connection with X-ray Investigations in Children for Research Purposes. Prepared by Dr F. Ellis and Dr. J.G.L. Cole'. December 1968.
- 'Comments on "Low Dose X-Irradiation and Teratogenesis"', Lars Jacobsen, Copenhagen, 1968'.
- F.14 BIR 'Memorandum on the Irradiation of Human Subjects for Experimental Purposes', June 1969.
- The memorandum was prepared by the Radiation Protection Committee.
- 2 earlier versions of the memorandum, 1 with manuscript revision.
- F.15 Letter to the Editor of the *British Journal of Radiology* from R. Oliver 'Radiation Exposure in Diagnostic X-ray Departments', August 1969.
- Papers *re* good radiological practice, *ca* 1969.

Societies and organisations

- F.16 'Patient exposure in diagnostic radiology: ICRP statement', n.d. latest bibliographical reference 1973.
- F.17 Paper *re* panel set up by the Radiation Protection Committee on biological effects of radiation doses at occupational exposure levels, n.d.
- F.18 **BRITISH NUCLEAR MEDICINE SOCIETY** 1972
- F.18 1 letter only *re* membership, 7 November 1972.
- F.19 **BRITISH RADIOLOGICAL PROTECTION ASSOCIATION** 1969
- F.19 Memorandum and Articles of Association, 1969.
- F.20-F.28 **BRITISH SOCIETY FOR SOCIAL RESPONSIBILITY IN SCIENCE (BSSRS)** 1971-1973
- F.20-F.23 BSSRS Newsheets 1971-1972.
- F.20 No.11 March:April:May 1971.
- F.21 No.14 November:December 1971.
- F.22 No.16 March:April:May 1972.
- F.23 No.17 June:July:August 1972
- F.24-F.28 *Science for People* bi-monthly journal of the BSSRS 1972-1973.
- F.24 No.18 Oct-Nov 1972.

Societies and organisations

F.25 No.19 Dec-Jan 72/73.

F.26 No.20 Feb/March 73.

F.27 No. 21 April-May [1973].

F.28 No.22 June-July 1973.

F.29-F.32 HER MAJESTY'S INSPECTORATE OF POLLUTION 1989-1991

Contents of folder inscribed 'Nottingham': correspondence and papers *re* HM's Inspectorate of Pollution's investigation of underground laboratory sites used by the Radiochemical Centre 1946-1949 and in particular a radon plant in Nottingham. Miller was 'physicist for Nottingham' from 1942 to 1947 (F.29). He mentioned in correspondence a radium accident in a Nottingham hospital in 1949.

F.29 November 1989 - June 1990.

F.30 August - September 1990.

F.31 October - November 1990.

F.32 June - July 1991.

Photocopied articles relevant to the investigation.

F.33-F.37 HOSPITAL PHYSICISTS' ASSOCIATION 1959-1985

F.33-F.35 'H.P.A'. Contents of folder so inscribed: correspondence and papers, 1964-1970.

Societies and organisations

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| F.33 | 1964. | |
| | Includes minutes of meeting to discuss draft of a careers booklet prepared by Miller held on 2 July 1964. | |
| F.34 | 1966-1967. | |
| | Includes duplicated copy of draft of the Faculty of Radiologists & Hospital Physicists' Association Joint Memorandum on Physics in Radiodiagnostic Departments with manuscript inscriptions 'HPA draft' and 'pre 20.5.66'. | |
| F.35 | 1970. | |
| F.36, F.37 | Printed and duplicated papers, 1959-1985. | |
| | Include Rules of the Association and policy statements. | |
| | 2 folders. | |
| F.38 | INSTITUTE OF PHYSICAL SCIENCES IN MEDICINE (IPSM) | 1990, 1993, n.d. |
| F.38 | Rules of the Institute, policy statement and programme for 50th Anniversary Meeting of IPSM Northern Group. | |
| F.39 | INSTITUTE OF PHYSICS | 1976 |
| F.39 | Correspondence <i>re</i> membership, 1976. | |

Societies and organisations

F.40-F.130	PUGWASH CONFERENCES ON SCIENCE AND WORLD AFFAIRS	1957-1995
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See also J.113-J.128.

F.40-F.103	Pugwash Newsletters 1975-1995.
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F.40	Volume 13 no.1, July 1975.
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F.41	Volume 13 no.2, October 1975.
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F.42	Volume 13 no.3, January 1976.
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F.43	Volume 13 no.4, April 1976.
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F.44	Volume 14 nos 1&2, July & October 1976.
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F.45	Volume 14 no. 3, January 1977.
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F.46	Volume 14 no. 4, May 1977.
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F.47	Volume 15 nos1&2, July & October 1977.
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F.48	Volume 15 no.3, January 1978.
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F.49	Volume 16 no.1, July 1978.
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F.50	Volume 16 no.2, October 1978.
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F.51	Volume 16 no.3, January 1979.
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Societies and organisations

F.52	Volume 17 nos 1&2, July & October 1979.
F.53	Volume 17 no.3, January 1980.
F.54	Volume 17 no.4, April 1980.
F.55	Volume 18 nos 1&2, July & October 1980.
F.56	Volume 18 no.3, January 1981.
F.57	Volume 19 no.1, July 1981.
F.58	Volume 19 no.2, October 1981.
F.59	Volume 19 no.3, January 1982.
F.60	Volume 19 no.4, April 1982.
F.61	Volume 20 no.1, July 1982.
F.62	Special Issue, July 1982.
F.63	Volume 20 no.2, October 1982.
F.64	Volume 20 no.3, January 1983.
F.65	Volume 20 no. 4, April 1983.

Societies and organisations

F.66	Volume 21 no.1, July 1983.
F.67	Volume 21 no.2, October 1983.
F.68	Volume 21 no.4, April 1984.
F.69	Volume 22 no.1, July 1984.
F.70	Volume 22 no.2, October 1984.
F.71	Volume 22, no.3, January 1985.
F.72	Volume 22, no.4, April 1985.
F.73	Volume 23, no.1, July 1985.
F.74	Volume 23 no.2, October 1985.
F.75	Volume 23 no.3, January 1986.
F.76	Volume 23 no.4, April 1986.
F.77	Volume 24 no.3, January 1987.
F.78	Volume 24 no.4, April 1987.
F.79	Volume 25 no.1, July 1987.

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F.80	Volume 25 no.2, October 1987.
F.81	Volume 25 no.3, January 1988.
F.82	Volume 25 no.4, May 1988.
F.83	Volume 26 no.1, July 1988.
F.84	Volume 26 no.2, October 1988.
F.85	Volume 26 no.3, January 1989.
F.86	Volume 26 no.4, April 1989.
F.87	Volume 27 no.1, July 1989.
F.88	Volume 27 no.2, October 1989.
F.89	Volume 27 no.4, April 1990.
F.90	Volume 28 no.1, July 1990.
F.91	Volume 29 no.1. July 1991.
F.92	Volume 29 no.2, October 1991.
F.93	Volume 29 no.3, January 1992.

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| F.94 | Volume 29 no.4, May 1992. |
| F.95 | Volume 30 no.1, July 1992. |
| F.96 | Volume 30 no.2, October 1992. |
| F.97 | Volume 30 no.3-4, January - April 1993. |
| F.98 | Volume 31 no.1, July 1993. |
| F.99 | Volume 31 no.2, October 1993. |
| F.100 | Volume 31 no.3-4, January - April 1994. |
| F.101 | Volume 32 no.1, July 1994. |
| F.102 | Volume 32, nos 2/3, October 1994/January 1995. |
| F.103 | Volume 32, no.4, April 1995. |
| F.104-F.106 | British Pugwash Group papers, 1979-1995. |
| F.104 | Background material to the meeting on NATO Deployment of Nuclear Weapons sent to Miller by the British Pugwash Group at Miller's request. N.d. but includes Armament and Disarmament Information Unit papers 1979. |
| F.105 | Statement on the Acceptability of SDI [Strategic Defence Initiative] Research Contracts, April 1986. |
| F.106 | British Pugwash Group Report 'Does Britain need nuclear weapons?' by C.R. Hill, R.S. Pease, R.E. Peierls, J. Rotblat. 1995. |

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- F.107-F.111 Miscellaneous Pugwash papers, 1979-1991.
- F.107 Colloquium paper on arms control in Europe and draft Pugwash statement, 1979.
- F.108 Pugwash declaration on the dangers of nuclear war adopted August 1982.

Statement of the Pugwash Executive Committee on Strategic Defences, December 1985.

'Goals for Pugwash', n.d. ca 1987.
- F.109 Papers *re* 38th Pugwash Conference, Dagomys, USSR, 1988.
- F.110 Papers *re* 40th Pugwash Conference, Egham, Surrey, 1990.
- F.111 Papers *re* 41st Pugwash Conference, Beijing, China, 17-22 September 1991.
- F.112-F.130 Printed and duplicated papers *re* arms and nuclear questions presented here for convenience, 1957-1989.

See also Windscale Inquiry F.208-F.223.
- F.112-F.120 'Arms Race'. Contents of Miller's folder so inscribed: principally newspaper cuttings and other printed papers, 1969, 1977-1979.

9 folders.

Include draft by Miller on the neutron bomb (F.116) and 1969 photograph of Miller at Hiroshima (F.120).
- F.121-F.129 Miscellaneous printed and duplicated papers, 1974-1989.

Include papers on nuclear winter, nuclear reactor accident at Three Mile Island, the tolerability of risk from nuclear power stations, etc.

For manuscript notes on 'N.R.P.B.[National Radiological Protection Board] - Chernobyl Seminar 29-10-86' see F.121.

9 folders.

Societies and organisations

F.130 *Saturday Evening Post*, 20 July 1957.

Includes article titled 'We were trapped by radioactive fallout'.

F.131-F.207 WESTON PARK HOSPITAL DAY CARE UNIT, SHEFFIELD 1975-1995

Weston Park Hospital Day Care Unit was a charitable organisation separate from Weston Park Hospital although located in the grounds of the hospital. It opened in 1982 with the remit to support and help patients who had recently received treatment at Weston Park Hospital (radiotherapy and/or chemotherapy) and found it difficult to cope in the community.

The Day Care Unit came into being as a result of initiatives of the Weston Park Hospital League of Friends. The League of Friends was established in 1976 with Miller as its first Chairman. In 1978 the League of Friends through its Committee adopted a proposal to establish a day care unit at the hospital. Miller recalled giving up the Chair of the League of Friends at the beginning of 1979 to give his attention to the day care unit (F.131). Miller chaired first the Weston Park Hospital Day Care Unit Working Group in 1979 and then the Weston Park Hospital Development Fund Ltd from its inception in 1980. He stood down from the Chairmanship of the Fund at the 1991 AGM (F.147).

F.131-F.133 Weston Park Hospital League of Friends correspondence and papers, 1975-1993, n.d.

Miller assembled these papers in response to a request for help with an article for *Weston News* about the League of Friends. They principally relate to the proposal for a day care unit

3 folders.

F.134-F.162 'Company Notes Council of Management'. Contents of Miller's folder so inscribed, 1979-1995.

F.134 Notes of meetings of Weston Park Hospital Day Care Unit Working Group, 1979.

F.135 Memorandum and Articles of Association of Weston Park Hospital Development Fund Limited incorporated 10 February 1980.

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- F.136 Notes of meetings of Weston Park Hospital Day Care Unit Working Group and minutes of meetings of Weston Park Hospital Development Fund Ltd, 1980.
- List of 'Approaches made to charitable trusts (Position at 28 October 1980)' and list of 'Donations from Charitable Trusts and Promises (as at 17/11/80)'.
- F.137 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1981.
- F.138 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1982.
- F.139 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1983.
- F.140 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1984.
- F.141 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1985.
- Paper *re* patients attending day care unit in 1985.
- F.142 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1986.
- F.143 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1987.
- F.144 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1988.
- Paper *re* patients attending day care unit.
- F.145 Minutes of meetings of Weston Park Hospital Development Fund Ltd and Finance Sub-Committee, 1989.
- F.146 Minutes of meetings of Weston Park Hospital Development Fund Ltd and of extra meeting of management committee, 1990.
- F.147 Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1991.

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| F.148 | Papers <i>re</i> salaries review, 1991. |
| F.149 | Minutes of meetings of Weston Park Hospital Development Fund Ltd, 1992. |
| F.150 | Minutes of meeting of Weston Park Hospital Development Fund Ltd, 11 January 1993. |
| F.151 | Agenda, papers and minutes of thirteenth AGM of Weston Park Hospital Development Fund Ltd, 13 September 1993. |
| F.152-F.155 | Agenda, papers and minutes of meetings, 1994.
4 folders. |
| F.156-F.158 | Agenda, papers and minutes of meetings, 1995.
3 folders. |
| F.159-F.161 | Western Park Hospital Development Fund Annual Reports, 1981-1993. |
| F.159 | 1981, 1982, 1983, 1984. |
| F.160 | 1985, 1986, 1987, 1988. |
| F.161 | 1989, 1990, 1991, 1992, 1993. |
| F.162 | Miscellaneous papers, n.d. |
| F.163-F.170 | 'Day Care Unit General'. Contents of folder so inscribed: correspondence and papers, 1980-1993. |
| F.163 | 1980.

Includes architects' drawing of revised plan for Day Care Unit. |

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F.164	1981-1982.
F.165	1983. Includes papers <i>re</i> official opening of Day Care Unit, 26 April 1983.
F.166	1983. Photographs of official opening.
F.167	1989.
F.168	1993.
F.169	Applications for posts at the Day Care Unit, 1982, 1987.
F.170	N.d. Includes photograph.
F.171-F.174	Lists of donations, 1980-1992.
F.171	1980-1982.
F.172	1982-1984.
F.173	1984-1986.
F.174	1986-1992.
F.175-F.180	Auditors' Reports and Financial Statements, 1981-1992.

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F.175	1981, 1982.
F.176	1983, 1984.
F.177	1985, 1986.
F.178	1987, 1988.
F.179	1989, 1990.
F.180	1991, 1992.
F.181-F.202	House Committee papers, 1981-1995. Principally notes of meetings, policy statements and attendance figures. Miller chaired the Committee throughout the period covered by the papers.
F.181	Statement of general principles of operational policies, 1981. Lederle Award Project document, n.d 1983 or later.
F.182	Lists of volunteers and staff, n.d., 1985-1990.
F.183	N.d, 1984. Includes report of the House Committee, 29 August 1984.
F.184	Notes of House Committee meetings, 1985.
F.185	Notes of House Committee meetings, 1986. Number of patients attending the Day Care Unit in 1986.

Societies and organisations

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| F.186 | Notes of House Committee meetings, 1987.
Report on counselling activity at the unit. |
| F.187 | Notes of House Committee meetings, 1988.
Number of patients attending the Day Care Unit in 1988. |
| F.188 | Notes of House Committee meetings, 1989. |
| F.189 | Correspondence <i>re</i> insurance matters, 1990. |
| F.190 | Notes of House Committee meetings, 1990. |
| F.191 | Notes of House Committee meetings, 1991. |
| F.192 | Miscellaneous information <i>re</i> Day Care Unit. |
| F.193 | Notes of House Committee meetings, 1992. |
| F.194 | Notes of House Committee meetings, 1993. |
| F.195 | 'Policies and Procedures' document, n.d. |
| F.196 | Correspondence, attendance figures, September - November 1993. |
| F.197 | 'General Policies'. Statements of policy in a number of areas of health and safety, n.d. |
| F.198 | Miscellaneous policy statements: nursing policies, catering policies, transport policies etc, n.d. |

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- F.199 Notes of House Committee meetings, 1994.
- F.200 Monthly attendance figures for 1994.
- F.201, F.202 Notes of House Committee meetings, 1995.
- Miscellaneous policy statements, attendance figures found with notes for 1995 Committee meetings.
- 2 folders.
- F.203-F.206 Architects' plans, photographs, correspondence, manuscript notes, *re* building of Day Care Unit, 1980-1981 and extension, 1986-1988.
- 4 folders.
- F.207 Newsletters and other printed information, 1984-1992, n.d.
- F.208-F.223 **WINDSCALE INQUIRY** **1977-1978**
- The inquiry related to a submission on 1 March 1977 by British Nuclear Fuels Limited (BNFL) to Copeland Borough Council under Section 23 of the Town and Country Planning Act 1971 for outline planning permission for 'a plant for reprocessing irradiated oxide nuclear fuels and support services' at their Windscale and Calder Works, Sellafield, Cumbria.
- F.208 *The Windscale Inquiry*. Report by the Hon. Mr. Justice Parker presented to the Secretary of State for the Environment on 26 January 1978. Volume 1 Report and Annexes 3-5. London: HMSO, 1978.
- F.209 *The Parker Inquiry*. Report by Friends of the Earth Ltd presented to the Secretary of State for the Environment on 28 April 1978. London: Friends of the Earth Ltd, [1978]
- F.210-F.223 Miscellaneous papers *re* nuclear processing and Windscale Inquiry, principally newspaper cuttings, 1977-1978.

Societies and organisations

- F.210 'Nuclear Processing April 77 or earlier'. Contents of envelope so inscribed.
- F.211 'Windscale cuttings June 77'. Contents of envelope so inscribed.
- F.212 'Windscale cuttings July 77'. Contents of envelope so inscribed.
- F.213 'Windscale cuttings August 77'. Contents of envelope so inscribed.
- F.214-F.219 'Windscale cuttings Sept 77'. Contents of envelope so inscribed divided into six for ease of reference.

Papers include proofs of evidence by Alice Stewart, Sadao Ichikawa, R.E. Ellis and Joseph Rotblat.
- F.220 'Windscale cuttings October 77'. Contents of envelope so inscribed.
- F.221 'Windscale cuttings November 77'. Contents of envelope so inscribed.
- F.222 'Windscale Rpt March 78'. Contents of envelope so inscribed: press cuttings.
- F.223 Duplicated papers on planning inquiries, 1978.

SECTION G

VISITS AND CONFERENCES

G.1-G.104

A number of overseas trips are documented in this section including holidays as well as visits made principally in connexion with Miller's scientific work. See Section H for the visits made by Miller on assignment as advisor and consultant on medical physics in Afghanistan, Ghana, India and Thailand.

G.1-G.11 Visit to Switzerland, 1947.

Miller spent part of the summer in Switzerland with his son, John.

See also A.115.

G.1 Letters from Miller to his wife.

G.2-G.8 Tourist information, guides, maps, etc
7 folders.

G.9 Miscellaneous postcards with Swiss views. Some pre-date Miller's 1947 visit.

G.10, G.11 Photographs.
2 folders.

G.12-G.44 Visit to the USA February - April 1948

Miller travelled to the USA on the Cunard White Star liner RMS Queen Elizabeth, returning on the Queen Mary. The visit was sponsored by the Medical Research Council and Miller was accredited to the British Commonwealth Scientific Office in Washington. Miller's visit was part of the planning process for the provision of a 2 M.E.V. X-ray generator for Sheffield. This was manufactured in Boston, Massachusetts. Miller also made a tour of American technical institutions where nuclear research was in an advanced state. Places visited included New York, Boston, Philadelphia, Washington D.C, Chapel Hill North Carolina, Chicago and Berkeley. He also stayed for a time with his cousin, Ernest Meese of Waterbury, Connecticut.

The surviving documentation is principally family correspondence, tourist memorabilia and material illustrative of the American way of life. There are only incidental references to Miller's scientific work in the correspondence.

See also A.95, A.115.

Visits and conferences

G.12	Manuscript note of itinerary on back of envelope.
G.13-G.15	Outward journey on RMS Queen Elizabeth.
G.13	Passenger list.
G.14	Menus, programmes of events, photograph of liner.
G.15	<i>Ocean Times</i> , 20, 21, 22 and 23 February 1948.
G.16-G.20	Miller's letters home to his family, February - April 1948.
G.16	19 - 22 February 1948.
G.17	24 - 29 February 1948.
G.18	2 - 13 March 1948.
G.19	14 - 29 March 1948.
G.20	2 - 22 April 1948.
G.21-G.24	Miscellaneous printed material <i>re</i> American politics and education. 4 folders.
G.25	Miscellaneous papers <i>re</i> Methodist Church and Fellowship of Reconciliation in the USA.
G.26-G.40	Tourist information, guides, maps etc.

Visits and conferences

G.26, G.27	New York. 2 folders.
G.28	Cambridge, Massachusetts.
G.29, G.30	Washington, D.C. 2 folders.
G.31	Chicago.
G.32	Atchison, Topeka and Santa Fe Railway System.
G.33, G.34	Grand Canyon. 2 folders.
G.35	San Francisco.
G.36-G.39	American West. 4 folders.
G.40	Niagara.
G.41	Miscellaneous postcards.
G.42	2 photographs. Portrait photograph of Miller and photograph of Miller in small group.
G.43, G.44	Return journey on Cunard White Star liner RMS Queen Mary.

Visits and conferences

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| G.43 | Passenger list. |
| G.44 | General information for passengers, programme, abstract of log etc. |
| G.45-G.61 | Visit to Switzerland and Scandinavia, 1953.

Miller travelled to Switzerland by train via Boulogne and then by train across Germany to Copenhagen for an international radiology congress. After the congress he visited Sweden and Norway before returning home. |
| G.45-G.48 | Contents of envelope inscribed 'Letters from Scandinavia' and '1953': letters from Miller to his wife, almost all undated; newspaper-cuttings. |
| G.45 | Letters from Boulogne, Kandergrund and Zurich. |
| G.46 | Letters from Copenhagen.

Includes 1 letter begun in Copenhagen and continued in Stockholm. The continuation is dated 26 July 1953. |
| G.47 | Letters from Stockholm, Oslo and Voss. |
| G.48 | Newspaper cuttings.

1 dated 20 July 1953 relates to the congress. |
| G.49-G.61 | Tourist information, guides, maps, etc |
| G.49-G.52 | Denmark.

4 folders. |
| G.53-G.55 | Sweden.

3 folders. |

Visits and conferences

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| G.56-G.61 | Norway.

6 folders. |
| G.62-G.66 | Visit to West Germany, January 1955.

Miller travelled by boat and train via Harwich and the Hook of Holland to Hamburg and then Munich and Heidelberg. |
| G.62-G.64 | Miller's letters and postcards to his family.

Include brief references to hospital visits, the value of the visit [to Munich] in respect of information on treatments etc. Letter postmarked Munich, 20 January 1955, mentions that Miller had seen the X ray martyrs memorial in Hamburg: 'This is a memorial of a small modest sort with the names of the early pioneers of X ray work who lost their lives - people from all parts of the world' (G.63).

3 folders. |
| G.65 | 1 photograph of Miller in small group. |
| G.66 | Miscellaneous postcards. |
| G.67-G.70 | Visit to Sweden, April 1958.

Miller made a scientific visit to Sweden as part of a more extensive European trip that included stops in Heidelberg where his son, John, was staying. |
| G.67 | Letters from Stockholm. |
| G.68 | Letters from Gothenburg. |
| G.69 | Letters from Heidelberg and Switzerland. |
| G.70 | Press cuttings. |

Visits and conferences

- G.70A Visit to West Germany, 1959.
- During the summer of 1959 Miller appears to have visited Munich, for the 9th International Congress of Radiology, and Heidelberg where his son John was staying.
- Letters and postcard to his wife Mary.
- G.71-G.84 12th International Congress of Radiology, Tokyo, Japan, October 1969.
- Miller travelled to Japan via Amsterdam and Anchorage, Alaska and returned home via Hong Kong, Thailand and India.
- G.71 Small format ring binder inscribed 'Japon [sic]' on front cover with itinerary and general information.
- G.72 Schedule for Miller in Japan and copy of schedule of a colleague.
- G.73 Letters and postcards from Miller to his wife, Mary and colleague at Sheffield.
- G.74 Letter arising from ? Japanese colleague, 27 November 1969.
- G.75 Memorabilia of special KLM (Royal Dutch Airlines) flight on behalf of congress participants.
- G.76 *Asahi Evening News*, 7 October 1969.
- This English-language newspaper is devoted to reporting the Congress.
- G.77-G.82 Miscellaneous memorabilia, information.
- 6 folders.
- G.83, G.84 Information booklets about Hiroshima.
- 2 folders.

Visits and conferences

- G.85-G.93 Visit to Australia, August 1973.
- Miller travelled to Australia via Bangkok and Singapore. Although he made arrangements to see colleagues in Australia and en route, Miller and his wife were visiting Australia to take a holiday and see their son John who was a member of the politics department at La Trobe University, Melbourne.
- G.85 Correspondence *re* arrangements to visit colleagues in Singapore and Australia.
- G.86 Correspondence and papers *re* arrangements for travel to Australia.
- G.87 Correspondence received by Miller during his stay in Australia.
- G.88-G.93 Miscellaneous memorabilia and tourist information.
- 6 folders.
- G.94-G.104 Visits to New Zealand, 1978-1979, 1986
- Miller and his wife visited New Zealand where their son Robert was a member of the Anatomy Department, University of Otago, Dunedin.
- These visits are documented by memorabilia, tourist information and papers *re* church services only.
- Contents of envelope inscribed 'New Zealand': papers *re* both 1978-1979 and 1986 visits.
- 11 folders.

SECTION H

TECHNICAL ASSISTANCE OVERSEAS

H.1-H.359

For the last ten years of his career and for a period after he retired Miller undertook a number of overseas consultancies on behalf of the International Atomic Energy Authority (IAEA), the World Health Organisation (WHO) and the United Kingdom Overseas Development Administration (ODA). He was particularly associated with Ghana, India and Thailand but also made a brief visit to Afghanistan on the way to an assignment in Thailand. Some of his contacts with research and treatment centres overseas extended over many years.

The papers include reports to the sponsoring agencies, correspondence with the sponsoring agencies, staff of the centres visited and family and others at home while Miller was overseas, photographs and miscellaneous printed and duplicated background material.

Miller was greatly interested in the way of life, culture and religion of the countries visited and that is reflected in the surviving materials.

The papers are presented as follows:

H.1-H.30A	GENERAL
H.31-H.33	AFGHANISTAN
H.34-H.103	GHANA
H.104-H.265	INDIA
H.266-H.359	THAILAND

Diaries and notebooks kept by Miller during his overseas visits are presented in Section A.

See also A.160, D.25, D.241, E.12, E.21, E.43.

Technical assistance overseas

H.1-H.30A GENERAL 1960-1992

H.1-H.14 'Tech. Aid Reports H M'. Contents of folder so inscribed

H.1 Report to the Government of Ghana on 'Use of Radioisotopes in Medicine' by Miller. International Atomic Energy Agency (IAEA) TA Report No.226 dated on front cover, 9 November 1965.

The report was based on six month's work in Ghana, April - September 1965. According to the report's terms of reference Miller's duty station was at the National Institute of Health and Medical Research, Accra, and the work was to be in co-operation with the Radioisotope and Health Physics Unit attached to the Physics Department of the University of Ghana at Lagon.

H.2 Three papers related to Report to Government of Ghana (H.1):

'Notes on the Present Situation at the National Institute of Health and Medical Research - September 1965'.

4pp typescript 'For Mr Lloyd - Department of Technical Assistance, Programme Division'.

'A Technical Aid Project in Ghana' by Miller.

4pp typescript.

'Work accomplished'.

3pp typescript 'To be added to report'.

H.3 Report to the Government of Ghana on 'The Use of Radioisotopes in Medicine' by Miller. International Atomic Energy Agency (IAEA) TA Report No.559 dated on front cover 24 July 1970.

The report was based on two month's work in Ghana 5 May - 6 July 1970. Miller's duty station was the Department of Medicine, Ghana Medical School. He assisted in extending clinical diagnostic work using radioisotopes and advised on radioisotope aspects of future medical research.

H.4 'Cobalt Therapy Project Kabul [Afghanistan]'.

5pp typescript on 'Visit of Dr Miller on behalf of IAEA 5-10 Feb. 1976', signed 'Miller' and dated '13/2/76'.

Technical assistance overseas

- H.5 Report to the Government of Thailand on 'Medical Physics' by Miller. International Atomic Energy Agency TA Report No.1174 dated on front cover, 1 December 1976. See also H.279, H.311.
- Miller served in Thailand as a consultant to advise on the establishment of a centralised medical physics service and the development of a centralised training programme, February - August 1976.
- H.6 'Advanced Course in Radiological Physics' Assignment Report, 28 December 1977 - 28 February 1978 by R.L. Dobson and Miller dated on front cover 2 August 1978.
- This was World Health Organisation (WHO) Project: Ind Rad 004. The consultants were assigned to the Division of Radiological Protection of the Bhaba Atomic Research Centre (BARC), Trombay, Bombay, India. They were (1) to assist in the training of candidates in radiological physics, particularly in the development of the proposed advanced two-year M.Sc. course; (2) to assess developments in the radiation protection services and the secondary standard dosimetric laboratory; and (3) to advise on the research programme of the Division.
- See also H.173.
- H.7 'The Gujarat Cancer and Research Institute (M.P. Shah Cancer Hospital), Ahmedabad, Gujarat State, India. Report of Visit by Professor H. Miller March 17th - April 1st 1980'.
- 9pp typescript.
- See also H.208.
- H.8 'The Gujarat Cancer and Research Institute Ahmedabad India Report of visit by Professor H. Miller: July 28th - August 12th 1981'.
- 12pp typescript + 2pp list of 'Recommended Text Books and Monographs from U.K. for Medical Physics Department G.C.R.I.'. With manuscript inscription on top of first page 'Report submitted 8/9/81'.
- See also H.210.
- H.9 'Linear Accelerator Therapy in Ahmedabad'.
- 2pp typescript article for unidentified bulletin by Miller dated '9/12/81'.

Technical assistance overseas

- H.10 'The Gujarat Cancer and Research Institute Ahmedabad ... Evaluation
Study May 1987' by Miller and F.E. Neal.
- The study was undertaken on behalf of the United Kingdom Overseas
Development Administration.
- 37pp duplicated typescript including annexes and appendices.
-
- H.11 Three papers found stapled together:
- 'Report for the [United Kingdom] Overseas Development Administration
Gujarat Cancer and Research Institute - Ahmedabad [India] November -
December 1988' by Miller, F.E. Neal and P.C. Williams.
- 4pp typescript.
- 'Visit to Radiation Oncology Centres in India November-December 1988' by
F.E. Neal.
- 4pp typescript + 2pp appendices.
- 'Visit of Radiotherapists and Medical Physicists to India November-
December 1988 Indo-British Collaborative Workshop on Radiation
Oncology - Ahmedabad Symposium - Contemporary Issues in Radiation
Oncology - Bombay'.
- 9pp typescript.
-
- H.12 'Gujarat Cancer and Research institute Ahmedabad Gujarat [India] Phase II
Project Request for Financial and Technical Assistance Submitted to
Overseas Development Administration Evaluation Study by Dr F.E. Neal
February 1990'.
- 17pp typescript including title page, contents list and appendices.
-
- H.13 'Gujarat Cancer and Research Institute Ahmedabad Gujarat [India]
Addendum to Evaluation Study by Dr F E Neal June 1990'.
- 7pp typescript including title page.
-
- H.14 8pp typescript with manuscript inscription at top of first page 'Extract
FEN[eal]/ODA [Overseas Development Administration] Report for GCRI
[Gujarat Cancer Research Institute], September 1992'. Photocopy.

Technical assistance overseas

- H.15, H.16 'Technical Aid'. Contents of folder so inscribed divided into two for ease of reference: newspaper cuttings and printed background material, 1963-1965 and n.d.
- H.17-H.28 'I.A.E.A [International Atomic Energy Agency] Equipment maintenance'. Contents of folder so inscribed: correspondence and papers, 1963-1978.
- The IAEA was interested in exploring in a more systematic way the utilisation of nuclear medicine instruments in developing countries. It organised a meeting at the Agency on 'Strategies for Improving Maintenance of Nuclear Medicine Instruments in Developing Countries', December 1975 and a survey of nuclear instrumentation in medical applications in Southeast Asia in 1977.
- H.17 'Nuclear Electronic Instruments in Tropical Countries', Technical Reports Series No.13, International Atomic Energy Agency, Vienna 1963. Printed booklet.
- H.18 World Health Organisation Consultation on Maintenance of Scientific Equipment with particular reference to Developing Countries, Geneva, Switzerland, 1-3 December 1971.
- 18pp duplicated typescript report including appendices.
- H.19 Paper on new electrical equipment tests by S.C. Johnson, Sheffield, 9 May 1972.
- 3pp photocopied typescript.
- H.20, H.21 Correspondence and papers *re* proposed IAEA study of the utilisation of nuclear medicine instrumentation in developing countries, 1975.
- 2 folders.
- H.22 'Maintenance of Nuclear Medicine Instruments in Developing Countries'. Report of an Advisory Group Meeting organised by the International Atomic Energy Agency, Vienna, 8-12 December 1975. Technical document issued by the IAEA, Vienna, 1976.
- H.23, H.24 Correspondence and papers *re* the problem of the maintenance of nuclear medicine instrumentation in developing countries 1976.
- 2 folders.

Technical assistance overseas

H.25 'Well Scintillation Counting Systems for Nuclear Medicine Applications in Developing Countries'. Report of a Consultants' Meeting organised by the International Atomic Energy Agency, Vienna, 23-25 May 1977. Technical document issued by the IAEA, Vienna, 1977.

H.26-H.28 Correspondence and papers *re* survey of maintenance of nuclear medicine instrumentation in developing countries, 1977-1978.

3 folders.

H.29-H.30A Miscellaneous papers.

H.29 'Health Hints for the Tropics', Supplement to *Tropical Medicine and Hygiene News*, 1960.

H.30 *International Atomic Energy Agency IAEA what it is and what it does*. Booklet printed by the IAEA in Vienna, June 1961.

H.30A Guide to Joint Funding of Development Projects by British Non-Government Organisations and the ODA, Bilateral Co-ordination Department Overseas Development Administration, April 1982.

H.31-H.33

AFGHANISTAN

1975-1977

Miller visited Kabul, Afghanistan on behalf of the IAEA to provide technical assistance in the field of Co⁶⁰ radiotherapy physics, 5-10 February 1976. The visit was made on the way to a six months' assignment in Thailand and involved an initial stopover at Budapest, Hungary to see equipment in operation and discuss various aspects of the Afghanistan project.

See H.4.

H.31-H.33

'Kabul Project'. Contents of a folder so inscribed divided into three for ease of reference: correspondence and papers, 1975-1977.

H.33 includes manuscript draft of Miller's report.

Technical assistance overseas

H.34-H.103

GHANA

1961-1975

In 1965 Miller was appointed by the International Atomic Energy Authority (IAEA) as an Advisor to the Government of Ghana on medical applications of radioisotopes. See also A.125, H.1, H.2.

In 1970 he made a second visit to Ghana as IAEA Advisor to the Government of Ghana on the use of radioisotopes. See also A.162, H.3.

H.34-H.38

'Ghana Project Ghana IAEA Reports'. Contents of folder so inscribed: correspondence and papers, 1963-1965, 1970.

H.34

IAEA letters of appointment, 1965, 1970.

H.35

Letters to Miller from IAEA, the United Kingdom Atomic Energy Authority and the Ministry of Health and Medical Research Council Radiological Protection Service, 1964-1965.

H.36

Miscellaneous background papers, 1963-1965:

Atomic Energy Commission Act, 1963 (Ghana); United Nations Technical Assistance Board paper 'Living Conditions in Ghana', 15 January 1964; paper on 'Radiation Protection in Ghana' by S. Dakubu, 4 May 1965.

H.37

Report to the Government of Ghana on 'Health Physics' by K.S. Gussard. IAEA TA Report No.101 dated on front cover, 12 August 1963.

H.38

Report to the Government of Ghana on 'Central Radioisotope Laboratory' by H.A.C McKay. IAEA TA Report No. 554 dated on front cover, 19 June 1970.

H.39-H.44

'Ghana UN Reports Field Reports'. Contents of folder so inscribed, 1965, n.d.

H.39

Field Report No.1 by Miller, 16 April 1965.

2pp typescript.

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- /... Monthly Report by Miller, 18 April 1965.
3pp typescript.
- H.40 're Isotope Techniques' by Miller, May 1965.
1p typescript.

Outline of a plan for a Radioisotope Unit at the National Institute of Health & Medical Research, Ghana Academy of Science by R.G.J. Butler and Miller, 22 May 1965.
- H.41 Report 'to describe progress at the end of the first three months of the assignment and to suggest a programme for consideration for the last three months' by Miller, dated at the head of the first page 10 June 1965.
4pp manuscript draft.

Field Report No.2 by Miller, 16 June 1965.
4pp typescript.
- H.42 Final Progress Report by Miller, 31 August 1965.
3pp typescript.

'Typical Doses of Radioactive Isotopes in Clinical Diagnostic Procedures' by Miller, 9 September 1965.
1p typescript.
- H.43 Report to the Government of Ghana on 'Medical Applications of Radioisotopes' by Miller, n.d.[1965]. See H.1.
6pp typescript.
- H.44 National Institute of Health and Medical Research Code of Practice for Use of Radioactive Materials, n.d.
11pp typescript.

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H.45-H.60	Correspondence <i>re</i> Miller's 1965 visit to Ghana, 1964-1965. Principally Miller's letters home to his wife Mary and other members of his family. Press cuttings have been kept with the letters to which they were attached.
H.45	December 1964 - February 1965.
H.46	March 1965 (1).
H.47	March 1965 (2).
H.48	March 1965 (3).
H.49	April 1965 (1).
H.50	April 1965 (2).
H.51	May 1965 (1).
H.52	May 1965 (2).
H.53	May 1965 (3).
H.54	June 1965 (1).
H.55	June 1965 (2).
H.56	June 1965 (3).
H.57	July 1965 (1).

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H.58	July 1965 (2).
H.59	August 1965.
H.60	September 1965.
H.61-H.65	Press cuttings from Ghanaian newspapers, 1965.
H.61	March 1965.
H.62	April 1965.
H.63	May 1965.
H.64	July 1965.
H.65	August 1965.
H.66	Press-cuttings from British newspapers <i>re</i> Ghana, 1966.
H.67	Press-cuttings from British and Ghanaian newspapers, n.d.
H.68-H.70	Miscellaneous printed and duplicated papers <i>re</i> 1965 Ghana visit. Includes papers <i>re</i> Methodist Church and cultural events. 3 folders.
H.71	Map of Ghana, 1961.

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- H.72-H.84 'Ghana correspondence 1970/75'. Contents of folder so inscribed: correspondence *re* visit to Ghana in 1970 and *re* later contacts with Ghana, 1969-1975.
- H.72 1969. One letter only, from colleague at Ghana Medical School, 30 December.
- February 1970. Exchange of correspondence with colleague at the Council for Scientific and Industrial Research, Accra.
- H.73-H.80 Principally letters from family, secretary and colleagues received by Miller during his visit to Ghana, with a few letters from Miller to his secretary, May-June 1970.
- H.73 May 1970 (1).
- H.74 May 1970 (2).
- Includes letter from Hon. Justice Nii Amaa Ollennu, Speaker of the National Assembly.
- H.75 May 1970 (3).
- H.76 June 1970 (1).
- H.77 June 1970 (2).
- H.78 June 1970 (3).
- H.79 June 1970 (4).
- H.80 June 1970 (5).
- H.81-H.84 Correspondence and papers *re* later contacts with Ghana, 1971-1975.
- Principally relate to training of Ghanaian technician in the UK.

Technical assistance overseas

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| H.81 | 1971. Includes 'provisional training programme' for Ghanaian technician. |
| H.82 | 1972. Includes progress reports and programmes of work for Ghanaian technician. |
| H.83 | 1973. Includes recommendation. |
| H.84 | 1975. |
| H.85-H.88 | Contents of folder: letters written by Miller during his visit to Ghana, May-June 1970.

Miller's main correspondent is his wife Mary. |
| H.85 | May 1970 (1).

Includes letter to Miller from his wife. |
| H.86 | May 1970 (2). |
| H.87 | June 1970 (1) |
| H.88 | June 1970 (2). |
| H.89-H.99 | Press cuttings from Ghanaian newspapers and other printed papers 1970.

11 folders. |
| H.100, H.101 | Miscellaneous duplicated papers, programmes, memorabilia.

2 folders. |
| H.102, H.103 | Photographs.

2 folders. |

Technical assistance overseas

H.104-H.265 INDIA 1960-1994

H.104-H.163	International Cancer Centre (ICC), Neyyoor
H.164-H.175	Bhaba Atomic Research Centre (BARC), Trombay
H.176-H.236	Gujarat Cancer and Research Institute (GCRI), Ahmedabad
H.237-H.243	Madras
H.244, H.245	Travindrum and Manipal
H.246	Tata Memorial Hospital, Bombay
H.247-H.265	Miscellaneous

H.104-H.163 International Cancer Centre (ICC), Neyyoor 1965-1994

Miller took an interest in the ICC Neyyoor from its establishment in 1965 and served on its London Committee. He made brief visits in 1969 on the way back to the UK from the International Congress of Radiology in Japan, in 1978 while visiting India in connexion with work in the Division of Radiological Protection, Bhaba Atomic Research Centre (BARC), Trombay, Bombay, in 1981 while visiting India on behalf of the UK Overseas Development Administration in connexion with a radiotherapy project in Ahmedabad, Gujarat State, and in 1988 while visiting Ahmedabad and Bombay.

The ICC Neyyoor was described in 1973 by its Director, Syed Ali, as 'a special research unit and hospital for the treatment and study of malignant diseases in Kanyakumari District [Tamil Nadu] and surrounding areas'. See H.136.

The Chairman of the London Committee until his death in September 1981 was R.E. Ellis. He was succeeded by D.G. Jenkins.

H.104-H.135 Contents of Miller's folder: correspondence and papers, 1965-1981

H.104 1965, 1967-1968.

Includes printed brochure about the Christian Medical College and Hospital, Vellore, South India.

H.105 1966-1969.

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| H.106 | 1968. |
| H.107 | February - September 1969. |
| H.108 | October - December 1969. |
| H.109 | <p>'Draft for Discussion Relationship of the Chewing Habit and Oral Cancer in Kanyakumari District [South India]', signed Mary B. Cooper, 3 November 1969.</p> <p>8pp duplicated typescript + tables.</p> <p>See also H.113.</p> |
| H.110 | International Cancer Centre, Neyyoor Newsletter <i>Neyyoor News</i> , Autumn 1969. |
| H.111 | <p>January 1970.</p> <p>Includes provisional agenda for joint meeting of ICC Neyyoor Trustees and London Committee, 30 January 1970.</p> |
| H.112 | February 1970. |
| H.113 | <p>March 1970.</p> <p>Includes '2nd Draft Matched Controls Study of Details of the Chewing Habit in Kanyakumari District', 3pp typescript with manuscript note at end 'To be contd Mary B. Cooper Research Coordinator 23.3.70'.</p> |
| H.114 | April - May 1970. |
| H.115 | <p>May 1970.</p> <p>Includes papers for meeting of ICC Neyyoor London Committee, 1 May 1970.</p> |

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- H.116 June - July 1970.
- 'Working Paper on the Registration of the International Cancer Centre as a Registered Society' dated 1 June 1970 and sent to Miller as a member of the London Committee, 7 July 1970.
- Chairman's Report for the Meeting of the London Committee, 24 July 1970.
- H.117 October - November 1970.
- Includes papers for meeting of ICC Neyyoor London Committee, 27 November 1970.
- H.118 April 1971.
- Papers for meeting of ICC Neyyoor London Committee, 30 April 1971.
- H.119 ICC Neyyoor News-sheet Spring 1971.
- H.120 August 1971.
- Draft scheme for costing proposed developments in Neyyoor, with covering letter, 24 August 1971.
- H.121 October 1971.
- Papers for meeting of ICC Neyyoor London Committee, 15 October 1971.
- H.122 February - March 1972.
- H.123 March 1972.
- Papers for meeting of ICC Neyyoor London Committee, 30 March 1972.
- H.124 April - May, October 1972.
- H.125 1974-1975.

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- H.126 July 1975.
Papers for meeting of ICC Neyyoor London Committee, 14 July 1975.
- H.127 July 1976
Minutes of meeting of ICC Neyyoor London Committee, 13 July 1976.
- H.128 September - December 1977.
Includes copies of correspondence between R.E. Ellis, Chairman of ICC Neyyoor London Committee and Bishop C. Selvamony, paper 'Regarding the Financial Position' and minutes of meeting of London Committee, 17 October 1977.
- H.129, H.130 1978.
Correspondence and papers principally relating to Miller's visit to ICC Neyyoor.
2 folders.
- H.131 1979.
Includes papers relating to meeting of ICC Neyyoor London Committee, 18 September 1979. See also H.137.
- H.132 1980.
Includes copies of papers sent to members of the ICC Neyyoor London Committee. Relate to finances and future arrangements for the ICC.
- H.133 October - November 1981.
re Howard Somervell, medical missionary at Neyyoor, 1922-1945.
- H.134, H.135 Printed and duplicated literature.
2 folders.

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- H.134 Undated letter from English radiographer D. Scully reporting on his arrival at Neyyoor and first impressions, n.d.
- Appeal brochure, n.d. [?1971].
- H.135 'Achievements'. Report on 'Indian Council of Medical Research Project - Collaborative Study on the Epidemiology of Oral Cancer' by H. Syed Ali, 12 October 1973.
- 'Review of work turned out in the International Cancer Centre from January 1969 to September 1973'.
- 'Synopsis of Funds Required'.
- H.136-H.159 'ICC Neyyoor'. Contents of folder so inscribed: correspondence and papers 1973, 1977, 1981-1994.
- H.136 April, October 1973.
- Report by the Chairman of the ICC Neyyoor London Committee, April 1973.
- Paper on the work of the ICC Neyyoor by its director Syed Ali, 12 October 1973. For related papers see H.135.
- H.137 September 1979.
- Minutes of meeting of ICC Neyyoor London Committee, 18 September 1979.
- H.138 January, July - September 1981.
- Includes minutes of meeting of ICC Neyyoor London Committee, 7 January 1981 and correspondence relating to Miller's visit to Neyyoor in August 1981
- H.139 November - December 1981.
- Includes correspondence *re* death of Chairman of ICC Neyyoor London Committee (R.E. Ellis).

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- H.140 January - February 1982.
- Correspondence and papers *re* visit to India of new Chairman of the ICC Neyyoor London Committee (D.G. Jenkins) and proposed working arrangement between Trivandrum Medical College Cancer Centre and ICC Neyyoor to form a combined regional cancer service.
- H.141 March - November 1982.
- Includes minutes of meetings of ICC Neyyoor London Committee, 26 May and 19 November 1982.
- H.142 March, October - December 1983.
- Includes correspondence arising from visit to ICC Neyyoor by hospital physicists, A.K. Morgan and H.M. Morgan.
- H.143 'Physics and Radiotherapy Facilities at the International Cancer Centre' by A.K. Morgan and H.M. Morgan, March 1983.
- H.144 'Survey of radiotherapy equipment and facilities at International Cancer Centre, Neyyoor - November 1983' by C.F. von Essen, 13 February 1984.
- H.145 1985.
- Includes report on visit to ICC Neyyoor by M.D. Snelling, February 1985 and minutes of meeting of London Committee, 12 April 1985.
- H.146 1986.
- Papers for meeting of ICC Neyyoor London Committee, 15 October 1986 including minutes of meeting of 17 June and report of visit to India of Chairman in July 1986.
- H.147 1987-1988.
- Minutes of meetings of the Trustees of the International Cancer Centre, Neyyoor, Fund, and related correspondence.

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- H.148 May-June 1988.
- Papers relating to meeting of London Committee, 8 June 1988 including proposal for a new hospital and a move to the neighbouring town of Nagercoil.
- H.149 September - November 1988.
- Includes correspondence relating to visit to Neyyoor by Miller in December and papers for meeting of 'London Committee/Neyyoor/Nagercoil', 1 November 1988.
- H.150 September, November 1988.
- Annual Report of the Medical and Cancer Research & Treatment Centre, [Nagercoil], 1987-1988, September 1988.
- Annual Report of the Neyyoor Hospital Friends, November 1988.
- H.151 October 1988
- Letter from M.J. Day, 14 October 1988 enclosing his 1985 report on ICC Neyyoor.
- Day spent a month in 1985 working as a medical physicist at Neyyoor. The main purpose of the visit was to supervise the commissioning of a cobalt-60 radiotherapy unit.
- H.152 January 1989.
- Letter of thanks from Chairman of ICC, Neyyoor, Fund to F.E. Neal, Consultant Radiotherapist at Weston Park Hospital, Sheffield, for visiting the work in Kanyakumari District in which the Fund was interested.
- H.153 January - March 1990.
- Includes report by Chairman of ICC, Neyyoor, Fund on visit to India, papers *re* comprehensive health centre project and minutes of meeting of London Committee, 22 February 1990.
- H.154 1991.
- Includes Neyyoor Hospital Friends Annual Report November 1991.

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- H.155 February - April, September 1992.

Includes papers for meeting of London Committee of ICC, Neyyoor, Fund, 25 February and minutes of meeting, 16 September 1992.
- H.156 1993.

Papers for meetings.
- H.157 February 1994.

Minutes of AGM of London Committee of ICC, Neyyoor, Fund, 8 February 1994.
- H.158 5 photographs, n.d.

4 photographs include R.E. Ellis, Chairman of the London Committee ICC Neyyoor at Neyyoor and 1 photograph of equipment inscribed 'View of the Cobalt Unit of the I.C.C. Neyyoor'.
- H.159 Undated manuscript and typescript notes, and printed and duplicated papers.
- H.160-H.163 Miscellaneous.
- H.160 Kanyakumari Medical Mission Neyyoor Hospital 125th Anniversary Souvenir 1838-1963. Publication.
- H.161 'The International Cancer Centre Project, Neyyoor. A memorandum concerning the Centre and its components' by J.M[uir] G[rieve], August 1965.

The components are listed on the front cover: the treatment of established cancer, the registry, research and education.
- H.162 'The International Cancer Centre Project, Neyyoor. A memorandum concerning the major equipment in the Radiotherapeutic Division' by J.M[uir] G[rieve], September 1965.

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H.163 'The International Cancer Centre Project, Neyyoor. A memorandum concerning the Staff (establishment) of the Centre in the following: The Medical Division The Registry The Educational Division Research' by J.M[uir] G[rieve], September 1965.

H.164-H.175 **Bhaba Atomic Research Centre (BARC), Trombay** **1973-1981**

Miller undertook a World Health Organisation (WHO) assignment as a short-term consultant at the Division of Radiological Protection Bhaba Atomic Research Centre (BARC), Trombay, Bombay under the project 'Advanced Course in Radiological Physics' (IND RAD 004). The assignment was for a period of two months commencing from the end of December 1977.

Miller's duties as consultant were:

1. To evaluate the existing radiation health protection services at the radiological protection unit at Bhaba Atomic Research Centre, Bombay.
2. To advise on improving calibration facilities and inspection of installations making use of ionising radiations.
3. To advise on legislation related to protection against hazards of ionising radiation.

At the end of his assignment Miller attended the Annual Conference of the Indian Association for Radiation Protection, Gwalior, 14-16 February 1978.

See also A.120.

H.164-H.166 'WHO India'. Contents of folder so inscribed: correspondence and papers, 1977-1978, 1981.

H.164 Correspondence and papers with WHO Regional Office for South East Asia, New Delhi *re* arrangements for consultancy, April - December 1977.

Includes passport size photograph of Miller.

H.165 Correspondence and papers, February - March 1978, 1981.

Includes 'briefing schedule' and correspondence *re* other cancer and medical physics centres in India and comparing Division of Radiological Protection BARC with School of Medical Physics, Bangkok.

H.166 Background papers *re* WHO.

H.167, H.168 'BARC Correspondence'. Contents of folder so inscribed: 1977-1978, 1981.

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- H.167 Correspondence September, December 1977, January - March 1978.
- Includes correspondence *re* presentation by Miller of a gift of an engraved gavel from the Council of the Hospital Physicists' Association to the Association of Medical Physicists of India.
- H.168 Correspondence *re* invitation to Miller to attend the fifth conference on medical physics organised by the Association of Medical Physicists of India, Coimbatore, in January 1982, April, June 1981.
- H.169-H.173 'Assignment Report'. Contents of folder so inscribed: correspondence and papers, 1973, 1977-1978.
- H.169 Copies of letters from Division of Radiological Protection BARC to University of Bombay, *re* proposed M.Sc. degree in radiological physics, June 1973 and April 1977.
- 'Proposed Syllabus for the Master's Degree Course (M.Sc.) in Radiological Physics', April 1977.
- H.170 Letter from J.F. Fowler *re* radiobiological research at BARC, 7 December 1977.
- Copies of correspondence between Division of Radiological Protection BARC and WHO *re* 'Advanced Course in Radiological Physics - Project IND RAD 004', January 1978.
- 'List of students who are undergoing the 16th one-year post-graduate course in Hospital Physics and Radiological Physics (22-9-1977 to 21-9-78)' with details of sponsorship and manuscript notes attached.
- H.171 'Technical Briefing' for Miller's consultancy with earlier assignment reports attached:
- Assignment Report on Course in Hospital Physics at the BARC, Trombay, Bombay WHO Project: India 0232 by J.E. Turner, 2 January - 22 February 1973.
- Assignment Report on Assistance to the Course in Hospital Physics given by the Division of Radiological Protection BARC, Trombay, Bombay WHO Project: India 0232 by L.H. Lanzl, 13 December 1973 - 13 February 1974.
- Assignment Report on Advanced Course in Radiological Physics in India WHO Project IND RAD 004 by S.L.I. Bacharach, December 1975 - February 1976.

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- /... Assignment Report on Advanced Course in Hospital Physics and Radiological Physics WHO Project IND RAD 004 by G.W. Barendsen, 2 January - 26 January 1977.
- H.172 Assignment Report on Development of Radio-Immuno-Assay at the Radiation Medicine Centre, Bombay, India WHO Project IND RAD 002 by R.S. Yalow, 27 December 1977 - 25 June 1978.
- H.173 Assignment Report on Advanced Course in Radiological Physics WHO Project IND RAD 004 by L. Dobson and Miller, 28 December 1977 - 28 February 1978.
- Typescript copy with extensive manuscript revision.
- See also H.6.
- H.174, H.175 Miscellaneous.
- H.174 Syllabus for the one-year post-graduate training course, Directorate of Radiation Protection BARC, Trombay, Bombay, n.d.
- H.175 Details and syllabus for proposed two year course in radiological and medical physics leading to the M.Sc. Degree of the University of Bombay, Division of Radiological Protection BARC, Trombay, Bombay, n.d.
- H.176-H.236 **Gujarat Cancer and Research Institute (GCRI), Ahmedabad 1976-1994**
- In August 1978 Miller was recommended to the Ministry of Overseas Development by Professor H.N. Middlemiss as a suitable person to help GCRI Ahmedabad in developing its medical physics back-up to the radiotherapy unit. See Miller's letter to N.L. Patel, 18 November 1991, on the occasion of the cancer centre's silver jubilee (H.195). For the next ten years he advised on equipment including linear accelerator, simulator and CAT scanner projects, arranged a training programme in the UK through the British Council and made a number of brief visits to Ahmedabad.
- The Ministry of Development became the Overseas Development Administration (ODA) in 1979. The involvement of the ODA and Miller with GCRI is usefully summarised in a document at H.215.
- See also A.124, A.126, A.129, A.134, A.137, A.171-A.176, A.178-A.181.

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- H. 176-H.185 'Min/of/Overseas Development'. Contents of folder so inscribed: correspondence between Miller and the Ministry of Overseas Development and the Overseas Development Administration (ODA), principally *re* the GCRI Ahmedabad, 1978-1987.
- H.176 March - May 1978.
- Correspondence *re* aid to radiology in India with particular reference to the Barnard Institute, Madras. See also H.205, H.237-H.243.
- H.177 February - June 1979.
- Correspondence *re* provision of specifications for a physics workshop and linear accelerator for the GCRI Ahmedabad.
- H.178 July - October 1979.
- Continuing correspondence and papers *re* equipment specification for GCRI Ahmedabad.
- H.179 January - May 1980.
- Correspondence *re* training programme for technicians and visit to GCRI Ahmedabad by Miller, including formal letter of appointment of Miller as a Radiology Advisor for the benefit of the Government of India, 17 March 1980.
- H.180 June - September 1980.
- Correspondence and papers *re* installation programme for the linear accelerator at GCRI Ahmedabad.
- H.181 February - June 1981.
- Continuing correspondence *re* the provision and installation of equipment at GCRI Ahmedabad and proposed visit by Miller on the occasion of the inauguration of the linear accelerator (see H.188).
- H.182 July - September 1981
- Correspondence *re* Miller's visit to GCRI Ahmedabad including formal letter of appointment as a Radiology Advisor on loan to the Government of India, 22 July 1981.

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- H.183 August 1982.
- Correspondence *re* provision of simulator for GCRI Ahmedabad, including quotations.
- H.184 October, December 1982.
- Principally continuing correspondence *re* simulator project for GCRI Ahmedabad.
- H.185 1983-1987.
- Correspondence *re* ODA support for cancer centres in India especially GCRI Ahmedabad.
- H.186-H.202 'GCRI correspondence and reports'. Contents of folder so inscribed: 1978-1991.
- H.186 1978-1979.
- Includes Assignment Report on Cancer Control and Research in India (Preparatory Assistance) WHO Project IND CAN 007 by A.I Sutnick and Y.L. Puchkov, 18 June - 15 July 1979.
- H.187 1980.
- Correspondence with British Council *re* Miller's visit to GCRI Ahmedabad in March 1980 and training programme, and correspondence with Overseas Development Administration *re* equipment for GCRI Ahmedabad.
- H.188 April - July 1981.
- Includes correspondence and papers *re* visit by Miller on the occasion of the inauguration of the linear accelerator. See also H.181, H.182.
- H.189 August - September 1981.
- Correspondence arising from Miller's visit to GCRI Ahmedabad.

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- H.190 October - December 1981.
- Continuing correspondence arising from visit, *re* linear accelerator and simulator projects, etc.
- H.191 1983.
- Includes note about the GCRI Ahmedabad and British technical assistance by G.P. Naik, British Council, Bombay.
- H.192 May - June 1985.
- Correspondence *re* equipment problems and visit to GCRI Ahmedabad of G.K. Lowndes, chief technician, Weston Park Hospital, Sheffield.
- H.193 1986.
- Includes letter from Miller to the Director GCRI Ahmedabad *re* the choice of a second linear accelerator, 20 August 1986.
- H.194 1987-1988.
- Correspondence principally *re* equipment problems. Letter from Director GCRI Ahmedabad, 21 December 1988, refers to Miller's participation in Indo-British Collaborative Workshop on Radiation Oncology at the GCRI, 29 November - 1 December 1988.
- H.195 1990-1991.
- Includes invitation (declined) to GCRI Ahmedabad silver jubilee celebration 1991.
- H.196-H.198 Annual Reports.
- See also H.207
- H.196 1982-1983.
- H.197 1983-1984.

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- H.198 1986-1987 & 1987-1988 (1 publication).
- H.199 Miscellaneous typescript and printed papers and memorabilia.
Includes note on GCRI Ahmedabad and future plans, n.d. 1986 or later.
- H.200-H.202 Photographs.
- H.200 9 photographs of linear accelerator building etc., 1980.
- H.201 4 photographs at official opening of linear accelerator, three of which include Miller, 1987.
- H.202 11 photographs of building, equipment and staff, 1990. See also H.195.
- H.203-H.215 'Reports GCRI'. Contents of folder so inscribed: 1976-1987.
- H.203 'Note on the Gujarat Cancer and Research Institute (M.P. Shah Cancer Hospital), Ahmedabad' by the Director GCRI, T.B. Patel.

13pp photocopy of 'Annex 2.13' with manuscript inscription by Miller 'National Seminar ~ 1976 Extract re Gujarat'.
- H.204 Assignment Report on Advanced Course in Radiological Physics WHO Project IND RAD 004 by R.L. Dobson and Miller, 28 December 1977 - 28 February 1978.

See also H.6, H.173.
- H.205 'A. Report of the Visit by Professor J.H. Middlemiss to the Gujarat Cancer & Research Institute on 30-31 August 1978'.

4pp photocopy with manuscript notes and marginal emphasis by Miller.

'B. Report of the Visit of Professor J.H. Middlemiss to the Barnard Institute at the Madras Medical College on 28 and 29 August 1978'.

4pp photocopy with manuscript notes and marginal emphasis by Miller.

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- H.206 'Gujarat Cancer Institute - Ahmedabad Suggested Technical Specifications for Radiological Physics'.

9pp typescript with covering letter from Miller to the Ministry of Overseas Development, 3 April 1979.
- H.207 GCRI Annual Report 1979-1980.

See also H.196-H.198.
- H.208 'Report by D.K. Bewley on visits to Bombay and Ahmedabad, February 19-22, 1980', 25 February 1980.

2pp photocopy sent to Miller by the British Council, 2 June 1980.

Report of Visit by Miller to GCRI Ahmedabad, 17 March - 1 April 1980.

9pp photocopy.

See H.7.
- H.209 Copy of situation report on GCRI Ahmedabad Linear Accelerator Project, 3 April 1981.

The report was prepared by G.P. Naik, Science Officer, British Council, Bombay and sent by him to the Overseas Development Administration which copied the report to Miller.

3pp typescript report with copies of related documents and covering letter from Naik to ODA.
- H.210 Copies of documents ? sent to Miller by British Council in Bombay while Miller was visiting India in 1983:

Covering note from British Council to Miller, 21 October 1983.

Letter from Miller to Overseas Development Administration commenting on assignment report of P.C. Williams, 28 April 1981.

Report on assignment carried out at GCRI Ahmedabad by P.C. Williams, 27 January - 14 March 1981.

Report of visit by Miller to GCRI Ahmedabad, 28 July - 12 August 1981. See also H.8.

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- H.210A 'Inauguration of the Linear Accelerator, Gujarat Cancer and Research Institute, Ahmedabad: Transcript of Sir John Thompson [sic]', 4 August 1981.
- Sir John Thomson was British High Commissioner in India.
- 3pp typescript.
- H.211 'Report to Trustee Gujarat Cancer Society' by Miller, 28 October 1983.
- 3pp typescript relating to the supply of a CAT Scanner to the GCRI Ahmedabad.
- H.212 Report on visit to GCRI Ahmedabad by P.C. Williams, 5 March - 23 March 1984.
- 4pp photocopy.
- 'Extract from Report on Dr. Nicholson's Visit to India Nov 1984'.
- 1p photocopy sent to Miller by Overseas Development Administration, 10 January 1985.
- H.213 Report on the Assignment carried out at GCRI Ahmedabad by G.K. Lowndes, 25 February - 5 April 1985.
- 7pp photocopy with manuscript comment and marginal emphasis by Miller.
- Related correspondence and papers including manuscript notes by Miller.
- H.214 'Proposal for a High Activity Afterloading Intracavitary Machine for Treating Cervical Cancer at Gujarat Cancer Research Institute' by C.A. Joslin, 1986.
- 9pp photocopy + figure.
- H.215 'Notes on ODA involvement with GCRI'.
- 3pp photocopy listing 31 occasions of Overseas Development Administration involvement, with dates from '30-31/8/78' to '27/4/87'.
- The document also usefully summarises Miller's involvement with the GCRI.

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- H.216-H.221 'Misc Letters Re GCRI 1979+'. Contents of folder so inscribed: correspondence and papers, 1977-1986.
- H.216 'Teletherapy Institutions in India'.

6pp list presenting 'details of institution', 'details of therapy unit' and 'details of present source' with manuscript inscription on page 1 '?1977'.
- H.217 1978-1979.

Correspondence from Ministry of Overseas Development and Professor J.H. Middlemiss *re* assistance to radiology in India, especially GCRI Ahmedabad and copy of 'Indent on the Crown Agents for the Gujarat Cancer Centre equipment'.
- H.218 1980-1981

Includes paper *re* meeting on linear accelerator installation, 21 October 1980.
- H.219 April 1983.

Correspondence from Director GCRI Ahmedabad *re* simulator site plan, linear accelerator and CAT scanner.

1 photograph 'showing construction of the cavity in floor and raising of the floor level', found attached to letter *re* simulator site plan.
- H.220 April 1984.

Paper *re* meeting to discuss equipment problems, 19 April 1984.
- H.221 1986-1987.

Includes correspondence *re* purchase of new high energy linear accelerator.
- H.222-H.225 'Training Programme'. Contents of folder so inscribed: correspondence and papers *re* training programme for staff of the GCRI Ahmedabad 1980-1983. See also H.226-H.229.

Technical assistance overseas

- H.222 April - June 1980, December 1980 - January 1981.

Correspondence with M.E.L. Particle Physics Division *re* training programme and 'visit report'.

M.E.L. was a division of Philips Electronic and Associated Industries Ltd.
- H.223 May - July 1980.

Correspondence with British Council including proposals and programmes for training of staff.
- H.224 June 1980 - January 1981.

Includes correspondence with D.C. Aurora, chief physicist at GCRI Ahmedabad.
- H.225 January 1983.

Correspondence and papers *re* application for British Government Technical Co-operation Training Award from member of staff at GCRI Ahmedabad.
- H.226-H.229 'British Council Bombay'. Contents of folder so inscribed: correspondence and papers, principally *re* training of GCRI staff, 1981-1994.
- H.226 1981, 1983.

Correspondence and papers *re* training programme, visit to India by Miller in 1983.
- H.227 March - October 1984.

Includes correspondence *re* training programme.
- H.228 January - February, July 1985.

Principally correspondence *re* training programme.

Technical assistance overseas

- H.229 June 1986, April 1987, February 1994.
- Correspondence and manuscript notes April 1987 relate to proposed visit by Miller to GCRI Ahmedabad on behalf of the Overseas Development Administration.
- H.230-H.236 'CAT Scanners'. Contents of folder so inscribed: correspondence and papers *re* CAT scanner for GCRI Ahmedabad, 1983.
- H.230 'C.T. Scanner Survey' by M.J. Edwards, March 1983.
- H.231 'How to choose a CT scanner' by R.D. Moore, Regional Scientific Officer, Trent Regional Health Authority, April 1983.
- H.232 April - May 1983.
- Correspondence with Director GCRI Ahmedabad and R.D. Moore *re* choice of scanner.
- Moore's letter of 17 May 1983 encloses 'a list of scanners (general purpose) prepared by the DHSS [Department of Health and Social Security] setting out the position in the UK up to June 1982'.
- H.233 June 1983 (1).
- Includes copy of DHSS Scientific and Technical Branch 'Summary of the Technical Assessment of the Imaging Performance of CT Scanners' sent to Miller by R.D. Moore, 13 June 1983.
- H.234 June 1983 (2).
- Includes Miller's manuscript notes and off-prints of two papers that discuss the performance and dosimetry of several CT machines.
- H.235 July - August 1983.
- Includes Miller's manuscript notes and information sent to him on the characteristics and performance of CT scanners.

Technical assistance overseas

- H.236 September - October 1983.
- Includes Miller's manuscript notes.
-
- H.237-H.243 Madras ca 1960-1979**
- H.237-H.243 'Madras'. Contents of folder so inscribed: correspondence and papers, principally *re* the Barnard Institute of Radiology and Cancer, Madras and the Cancer Institute, Adyar, Madras *ca* 1960-1979 (bulk 1978-1979).
- Captain T.W. Barnard, who died in 1978, arrived in India in 1916 with H.M. Forces as a commissioned officer in charge of radiology in the Colabar War Hospital, Bombay. After the war he remained in India organising a radiological service in Madras and establishing the Institute which was named after him on its official opening in March 1934. He was subsequently Secretary of the Sheffield National Centre for Radiotherapy 1942-1963. See Miller's obituary of Barnard at H.243.
- Miller visited Madras in early 1978 and was keen to secure support for the Barnard Institute on his return to the UK. For Miller's correspondence with the UK Ministry of Development *re* the Barnard Institute see H.176. See also H.205.
-
- H.237 January - February 1978.
- Correspondence with Cancer Institute, Madras; Miller's manuscript notes *re* visit to Madras.
-
- H.238 January - May 1978.
- Correspondence with W.V. Mayneord *re* Barnard Institute.
-
- H.239 March - June 1978, March 1979.
- Correspondence with the World Health Organisation *re* Barnard Institute.
-
- H.240 April - October 1978.
- Correspondence with Barnard Institute, including copy of provisional syllabus for M.Sc. Radiology Physics sent to Miller with letter of 14 June 1978.
-
- H.241 June - August 1978.
- Correspondence from British colleague visiting Southern India.

Technical assistance overseas

- H.242 November 1978 - March 1979.
- Correspondence with P.N.T. Wells of Medical Physics Department, Bristol General Hospital, with copy of his report on a visit to India.
- H.243 *ca* 1960- *ca* 1978.
- Miscellaneous papers including report on medical physics in India from International Atomic Energy Agency, *ca* 1960 and obituary of T.W. Barnard by Miller, *ca* 1978.
- H.244, H.245 Trivandrum and Manipal 1978-1989**
- H.244, H.245 'Trivandrum, Manipal'. Contents of folder so inscribed: correspondence and papers *re* training of staff at Department of Radiology, Trivandrum Medical College, Kerala and Department of Radiotherapy and Oncology, Kasturba Hospital, Manipal, Karnataka.
- H.244 1978-1981.
- Correspondence, Miller's manuscript notes *re* training of staff at Trivandrum.
- H.245 1988-1989.
- Correspondence, biodata etc *re* enquiry from Manipal about scholarship to visit UK.
- H.246 Tata Memorial Hospital, Bombay 1988**
- H.246 December 1988.
- Papers *re* seminar on contemporary issues in radiation oncology held at the hospital, 5 December 1988.
- H.247-H.265 Miscellaneous 1972-1992**
- H.247 'Cuttings from "Times of India" etc on variety of topics'. Contents of envelope so inscribed.
- Most of the cuttings are undated but probably relate to 1978 visit to India.

Technical assistance overseas

- H.248 Printed and duplicated papers *re* Indian religions, Mahatma Gandhi etc. 1 paper inscribed 'From Dyal [Aurora] 24/4/92'.
- H.249 Printed and duplicated papers principally relating to Bombay including the Christian Church there.

Includes papers dated December 1977 - February 1978.
- H.250 *Times of India*, 23 February 1978.
- H.251 Photocopies of articles from the *New Scientist* *re* India, May 1977 - February 1978.
- H.252 Manuscript notes, n.d.
- H.253 1p typescript tribute to a missionary doctor killed in a road accident in South India, n.d.
- H.254-H.261 Tourist information, guides, maps etc.

8 folders.
- H.262 Off-prints of papers by Indian scientists, 1972-1977.
- H.263-H.265 Photocopies sent to Miller by the High Commission of India Library, London in reply to his request for information on population, life expectancy, agriculture, the scheduled castes and scheduled tribes and temples of India, 13 April 1992.

3 folders.

Technical assistance overseas

H.266-H.359

THAILAND

1966-1991

Miller served in Thailand as an International Atomic Energy Authority (IAEA) consultant to advise on the establishment of a centralised medical physics service and the development of a centralised training programme, February - August 1976. He seems to have visited Thailand for the first time in 1969 and returned for a further visit in 1982.

See also A.118, A.119.

H.266-H.280

'Bangkok Tech Reports IAEA WHO etc'. Contents of folder so inscribed: correspondence and papers, 1966-1976.

Includes paper by Miller on Sheffield Regional Medical Physics Department found with the reports relating to Thailand (H.280).

H.266, H.267

December 1966, October - November 1969.

Correspondence with J.R. Clarkson *re* medical physics in Thailand.

Clarkson held an appointment as IAEA South East Asia Regional Advisor in 1966. Miller initiated the correspondence while visiting Thailand in 1969 and was sent a copy of Clarkson's report (H.267).

2 folders.

H.268

'Medical Physics in Thailand' by K. Tungsubutra and E.J. Browne, paper for WHO/IAEA seminar on training and education in medical physics, Kiel, West Germany, 10-22 April 1972.

H.269

United Nations Development Programme (UNDP) report on 'Living Conditions in Thailand', 8 August 1972.

H.270

WHO assignment report on School for Medical Physicists at Ramathibodi Hospital, Mahidol University, Bangkok WHO Project: Thailand 0109 (UNDP) by E.J. Browne, 2 April 1973.

H.271

'The Current Status (March 1975) of the School of Medical Physics and the Radiation Protection Service in Thailand' by H. Svensson, WHO consultant, 14 December 1974 - 16 March 1975.

Technical assistance overseas

- H.272 'Bangkok - discussion with Miss Chindarat U. and Thai Radiographer. 4.6.75'
1p typescript note by H. Miller, 5 June 1975.
- H.273 'International Atomic Energy Agency Regular Technical Assistance Programme 1976 Requested from the Government of Thailand'.
3pp duplicated typescript.
- H.274 4 Overseas Missionary Fellowship leaflets about Thailand.
- H.275 January 1974.
Correspondence from Miller to Thai colleagues *re* the possibility of help from the IAEA for the development of medical physics services in Bangkok.
- H.276 June, August 1975.
Correspondence with E.H. Belcher, Head of Medical Applications Section, Division of Life Sciences, IAEA.
Belcher's letter of 19 June expresses his pleasure that Miller's assignment to the Department of Medical Sciences, Bangkok has been approved by the Government of Thailand.
Includes copies of pages of a report by Belcher on a visit to Thailand in April 1975.
- H.277 'Thailand General Technical Briefing Paper Updated - February 1976'.
Briefing paper for WHO staff members assigned to Thailand.
- H.278 March - September 1976.
Correspondence with IAEA and colleague in Sheffield; 'preliminary informal report of my arrival and contacts so far' sent to the IAEA, 1 March 1976.
- H.279 Field Reports nos 1 and 2 by Miller as IAEA consultant in medical physics in Thailand; Miller's manuscript notes.
The reports cover the periods 10 February - 6 March 1976 and 6 March - 31 May 1976.

Technical assistance overseas

- H.279A Final Report by Miller as IAEA consultant in medical physics in Thailand.
Report covers period 10 February - 6 August 1976.
See also H.5.
- H.280 'Sheffield Regional Hospital Board Sheffield Regional Physics Department'.
2pp typescript by Miller, November 1969.
- H.281-H.291 'Bangkok Tech Repts'. Contents of folder so inscribed: correspondence and
papers, 1969-1982.
- H.281 November 1969, January - February 1970.

Correspondence with Thai colleague *re* medical physics in Thailand including
organisation, training and visiting experts.
- H.282 October - December 1973.

Correspondence with Thai colleagues on the development of medical
physics in Thailand.

Includes 2pp typescript 'note' by Miller on the 'Contribution of medical
physics in the hospital situation in Thailand'.
- H.283-H.285 1974.

Continuing correspondence with Thai colleagues *re* the development of
medical physics in Thailand and proposed consultancy by Miller.
- H.283 January - February 1974.
- H.284 March - April 1974.

Includes 'Details of project - Draft Suggestions' by Miller.
- H.285 November - December 1974.

Technical assistance overseas

H.286-H.288	1975. Continuing correspondence with Thai, Swedish and British colleagues and the IAEA <i>re</i> the development of medical physics in Thailand and proposed consultancy by Miller.
H.286	February - March 1975.
H.287	April - May 1975.
H.288	June - December 1975.
H.289	1979, 1981.
H.290	1982. Includes information on the Thai Medical Physics Club and copy of article by Miller on medical physics in Thailand with manuscript corrections.
H.291	N.d.
H.292-H.297	'R.P.S.[Radiation Protection Service, Department of Medical Sciences, Ministry of Public Health, Bangkok]'. Contents of folder so inscribed: correspondence and papers, 1968-1976.
H.292	'Some preliminary data on radiation doses to patients in Thai diagnostic radiology', February 1968. Thesis abstract 'A study of radiation doses to the gonads of patients undergoing diagnostic x-ray examinations', 1970.
H.293	'A report on some aspects of radiation protection and population exposure in Thailand', <i>ca</i> 1970.
H.294	1974-1976. Correspondence with Thai colleagues and IAEA <i>re</i> Miller's consultancy.

Technical assistance overseas

- H.295 Report on 'Dr H. Eisenlohr's Visit to the Division of Radiation Protection Service, Department of Medical Sciences, 16-19 February 1975'.

Eisenlohr was Head of Dosimetry Section, Division of Life Science, IAEA.
- H.296 Report on 'The activities of the WHO Reference Centre for Secondary Standard Dosimetry Laboratory' 1975.

The Laboratory was set up in the Division of Radiation Protection Service.
- H.297 N.d.

Includes Miller's manuscript notes.
- H.298-H.305 School of Medical Physics, Faculty of Medicine, Ramathibodi Hospital, Mahidol University, Bangkok, Thailand, 1974-1977.

Course descriptions and other papers.

See also H.331.
- H.298 Course description: Radiation and clinical dosimetry, 1974.
- H.299 Course description: Nuclear medicine, 1974.
- H.300 Course description: Electronics and instrumentation, 1975.
- H.301 Course description: Application in medicine, 1975.
- H.302 Course description: Biology for medical physicists, 1976.
- H.303 Time schedule for medical physics students first semester, academic year 1976-1977.
- H.304 Miscellaneous information *re* staff, M.Sc. project, journal club etc.

Technical assistance overseas

- H.305 Correspondence, 1975-1977.
- H.306-H.312 Contents of folder. Correspondence and papers *re* Miller's consultancy in Thailand, 1975-1977.
- H.306 IAEA Service rules governing the conditions of service for technical co-operation experts, Vienna, Austria, January 1975.
- H.307 April 1975.
Includes Miller's 'Personal History' sent to IAEA, 1 April 1976.
- H.308 November - December 1975.
Includes copy of IAEA letter of appointment signed by Miller, 30 December 1975.
- H.309 January - September 1976.
Principally correspondence with IAEA about Miller's consultancy.
- H.310 July - December 1976.
Correspondence and papers *re* fellowship training abroad for Thai medical physicists.
- H.311 December 1976.
Copy of Miller's 'Final Report' with covering letter from IAEA, 2 December 1976.
- H.312 May 1977.
1 letter only.
- H.313-H.322 '1976 Thai Corres'. Contents of folder so inscribed: Miller's letters to his family, principally his wife Mary, February - July 1976.

Technical assistance overseas

- | | |
|-------------|---|
| H.313 | February 1976 (1).

Includes letters written from Budapest and Kabul on the way to Thailand. |
| H.314 | February 1976 (2). |
| H.315 | March 1976 (1). |
| H.316 | March 1976 (2). |
| H.317 | April 1976 (1). |
| H.318 | April 1976 (2). |
| H.319 | May 1976 (1). |
| H.320 | May 1976 (2). |
| H.321 | June 1976. |
| H.322 | July 1976. |
| H.323-H.329 | 'Misc letters from Bangkok'. Contents of folder so inscribed: correspondence, 1969, 1975-1982, 1991, n.d. |
| H.323 | October 1969.

Letters written by Miller to his wife from Tokyo, Hong Kong, Bangkok and India. |

Technical assistance overseas

- | | |
|-------------|---|
| H.324 | 1975-1976.

Includes letter from minister of the International Church of Bangkok, 3 August 1976. |
| H.325-H.329 | Letters from Thai colleagues, 1977-1991, n.d. |
| H.325 | 1977-1978. |
| H.326 | 1979-1980. |
| H.327 | 1981.

Includes photograph. |
| H.328 | 1982. |
| H.329 | 1984, 1985, 1991, n.d.

Includes photograph taken at 3rd ASEAN [Association of South East Asian Nations] Association of Radiology meeting, Manila, Philippines, 15 December 1984. |
| H.330-H.359 | Miscellaneous. |
| H.330 | List of medical physicists in Thailand, n.d. |
| H.331 | Course description for degree course in radiation technology, Mahidol University, n.d. |
| H.332 | 'Comparative study between rabbit antibodies to tetraiodothyronine methylhydrochloride - bovine serum albumin and tetraiodothyronine - bovine serum'. Thesis by S. Jaiwatanaswat, Chulalongkorn University 1978.

Copy sent to Miller 8 April 1980. |

Technical assistance overseas

- | | |
|--------------|---|
| H.333, H.334 | 'Thai Language'. Contents of Miller's folder so inscribed divided into two for ease of reference: duplicated papers and manuscript notes.

Lesson 1 dated '15/11/75' (H.334). |
| H.335 | Press-cuttings from Thai newspapers and British newspapers <i>re</i> Thailand, April 1976 - February 1977. |
| H.336, H.337 | Papers <i>re</i> Christian Church in Thailand.

2 folders. |
| H.338 | Bangkok Bird Club Newsletters. |
| H.339-H.359 | Tourist information, guides, maps etc.

21 folders. |

SECTION J

RELIGION

J.1-J.150

Miller was an active member of the Methodist Church throughout his life, becoming a lay preacher in 1926. See K.9 for letter from Methodist Church congratulating Miller on his sixty years as a local preacher. Notes for the sermons that he delivered in the latter part of his life are an important component of the papers relating to the Church. A wide range of social, peace and ethical concerns played an important part in Miller's religious outlook and this is also reflected in the papers presented in this section.

The papers are arranged as follows:

J.1-J.79	METHODIST CHURCH
J.80-J.112	OTHER ORGANISATIONS
J.113-J.134	TOPICS
J.135-J.150	MISCELLANEOUS

Further information on Miller's religious activities may be found in the diaries and notebooks in Section A.

Religion

J.1-J.79 METHODIST CHURCH ? mid 1930s-1995

J.1-J.4 Notebooks

J.1 Notebook used for notes on reading, services taken, talks given etc.
Probably in use from mid 1930s.

J.2 Staveley Grammar School notebook used for notes on discussion meetings
for young people from 1955 to 1960.

See J.4 and Sunday School registers at J.69-J.76.

J.3 Notebook inscribed inside front cover 'H. Miller Johns [St John's College
Cambridge]13/10/33' but used for ?record of services taken 24 February
1957 - 21 May 1995.

J.4 Notebook used for notes on ?discussion meetings for young people from
1960 to 1964.

J.5-J.68 Sermons

Manuscript notes of sermons by Miller, 1944-1995, n.d.

The notes for each sermon are usually headed with location, date and
biblical text.

J.5 1944.

J.6 1958.

J.7 1959.

J.8 1962.

J.9 1963.

Religion

J.10	1967.
J.11	1968.
J.12	1971.
J.13, J.14	1972. 2 folders.
J.15, J.16	1973. 2 folders.
J.17	1974.
J.18	1975.
J.19	1976.
J.20, J.21	1977. 2 folders.
J.22, J.23	1978. 2 folders.
J.24-J.26	1979. 3 folders.

Religion

J.27-J.29	1980. 3 folders.
J.30, J.31	1981 2 folders.
J.32-J.35	1982. 4 folders.
J.36	1983.
J.37, J.38	1984 2 folders.
J.39, J.40	1985 2 folders.
J.41-J.43	1986. 3 folders.
J.44, J.45	1987. 2 folders.
J.46-J.48	1988. 3 folders.
J.49-J.51	1989. 3 folders.

Religion

J.52-J.54	1990. 3 folders.
J.55-J.57	1991. 3 folders.
J.58-J.61	1992. 4 folders.
J.62-J.64	1993. 3 folders.
J.65	1994.
J.66	1995.
J.67, J.68	N.d. 2 folders.
J.69-J.75	Sunday School Registers 7 registers. 1955-1964.
J.76-J.78	Miscellaneous orders of service, programmes etc., 1953-1986. 3 folders.
J.78A	3pp manuscript draft by Miller, possibly written for the magazine of Stephen Hill Methodist Church, Sheffield, ca 1962.

Religion

J.79 Printed papers.

1 bundle of printed papers (8 publications), 1902-1986.

Includes souvenir programme for Great Methodist Union Demonstration held in the Guildhall, Cambridge, 21 January 1932.

J.80-J.112

OTHER ORGANISATIONS

1934-1995

J.80-J.88

Care in Crosspool

1987-1995

Care in Crosspool was established *ca* 1987 to provide various kinds of support and care in the community for the Crosspool area of Sheffield. Volunteers helped with such jobs as shopping, visiting, relieving carers and transporting people for hospital appointments. Miller was a member of the Management Committee.

Principally papers *re* meetings of Management Committee.

J.80

1987.

J.81

1990.

J.82

1991.

J.83

1992.

J.84

1993.

J.85

1994.

J.86

1995.

Religion

- J.87, J.88 Miscellaneous duplicated and printed papers.
2 folders.
- J.89 Christian Socialist Movement 1994-1995
Miller was welcomed to the Christian Socialist Movement in 1995.
Principally printed papers, 1994-1995.
- J.90 Community Concern 1982-1983
According to a 1983 report to the Sheffield (Carver St) Circuit Methodist Church 'Community Concern was conceived as a response to the crisis in youth employment and as an attempt to build links between the prosperous suburbs and areas of special need in Sheffield. Community Concern began in 1980 at Stephen Hill Methodist Church as a small scheme within the Youth Opportunities Programme of Manpower Services Commission'.
The papers were found in a folder inscribed 'Crosspool Youth Concern'.
Principally duplicated papers, 1982-1983.
- J.91-J.94 Development Education Centre (South Yorkshire) 1993-1995
Development Education Centre (South Yorkshire) was a charity set up in 1984. It worked with teachers and others involved in education, promoting a development and global perspective in the curriculum.
In 1994 Miller accepted an invitation to become a member of the Management Council.
Correspondence, minutes of meetings, annual reports etc, 1993-1995.
4 folders.
- J.95-J.111 Fellowship of Reconciliation (FOR). 1936-1995
The Fellowship of Reconciliation was 'an association of Christians of many denominations who share the belief that justice cannot be founded on violence and they must refuse to participate in war' (J.99).
- J.95-J.100 'Sheffield F.O.R.'. Contents of folder so inscribed divided into six for ease of reference: correspondence, duplicated and printed papers etc., 1956-1995.

Religion

- J.95 Small format notebook used for FOR Sheffield accounts 1956-1992.
- J.96, J.97 Correspondence, membership lists, newsletters, etc., 1985-1995.
2 folders.
- J.98 Papers *re* CND Trident exhibition, n.d.
- J.99, J.100 Miscellaneous printed and duplicated papers.
2 folders.
- J.101-J.104 'FOR Sheffield Group History'. Contents of folder so inscribed divided into four for ease of reference: correspondence, membership lists, manuscript notes, typescript draft, photograph etc., 1955-1992.

Miller was preparing an historical account of the FOR group in Sheffield as a contribution to a history of the peace movement in the city.
- J.105-J.107 Contents of folder divided into three for ease of reference: obituaries of Arthur Golding (died 1992), senior probation officer in Sheffield and a member of the FOR, and related papers, 1936-1993.

Includes London Union of the Fellowship of Reconciliation Bulletin, June 1936 (A.106).

Golding is listed as a member of the East London Area Council. Miller reports on the activities of the Ealing Group.
- J.108 2pp typescript draft 'The [FOR] Basis after the Bomb', n.d [ca 1986].

The draft begins 'An invitation to look again at the Basis of the Fellowship prompts me to ask what it is that has kept me involved over a lifetime in the witness and activity of the Christian Church? ...'
- J.108A FOR publications, 1982:

Alex Wood Memorial Lecture 'Ireland and Britain: 1690-1990 A search for peace' by David Bleakley, delivered 26 April 1982.

FOR newsletter *Newspeace*, June 1982.

Religion

- J.109-J.111 Papers of Christian anti-war and peace groups and miscellaneous papers *re* peace issues presented here for convenience, 1937-1962 and n.d.
- J.109 'The Seed' published by the Friends Anti War Group, May 1937.
Notice of public meeting for peace and reconstruction, 6 January 1940.
- J.110, J.111 Miscellaneous printed and duplicated papers, press cuttings manuscript notes found together, 1950-1962 and n.d.

2 folders.
- J.112 Student Christian Movement 1934
- J.112 'Report on the industrial work of the Student Christian Movement and the Auxiliary Movement presented to the members of the Conference on Industrial Reconstruction at Whitelands College, July 27th to August 1st, 1934.'
- J.113-J.134 **TOPICS** **1946-1994**
- J.113-J.128 'Science & Ethics' 1946-1994

Contents of folder so inscribed divided into sixteen for ease of reference: press cuttings, pamphlets, manuscript notes etc *re* nuclear questions, genetics, the environment, technical aid overseas etc., 1946-1984.

Includes Pugwash material see F.40-F.130.
- J.129-J.134 Science and religion 1966-1994
- J.129, J.130 Contents of folder divided into two for ease of reference: press cuttings and other printed papers, 1966-1984.
- J.131-J.134 Contents of folder divided into four for ease of reference: press cuttings and other printed papers, 1987-1994 and n.d.

Religion

J.135-J.150

MISCELLANEOUS

1945-1994

J.135-J.138

Press cuttings *re* religious issues, 1963-1992.

4 folders.

J.139-J.142

Contents of folder divided into four for ease of reference: press cuttings, manuscript notes, etc *re* religious, political, social, ethical and scientific questions, 1945-1994.

Includes *Statements relating to the Atomic Bomb*, London: HMSO, 1945 (J.141).

J.143-J.150

Duplicated and printed papers, principally *re* social concerns, 1974-1992.

8 folders.

SECTION K

CORRESPONDENCE

K.1-K.13

This small amount of correspondence is the contents of Miller's 'Letters to save' folder. A small number of principal correspondents are presented in a short alphabetical sequence. The remaining correspondence is listed chronologically. The period covered by the correspondence is 1955-1995.

K.1-K.7	Principal Correspondents	1955-1995
K.1	Burns, R.W. <i>re</i> A.D. Blumlein. Includes Miller's 'Personal Notes re EMI Research 1934-1942'.	1991
K.2	Murray, R and others <i>re</i> possible connexion between the Kelly Clinic, Baltimore and the polonium used by Chadwick in the discovery of the neutron.	1989-1991
K.3	Olennu, N.A and Olennu, A.A. Nii Amaa Olennu was a former Supreme Court Judge and Speaker of the National Assembly of Ghana. He died in December 1986 and the subsequent correspondence is with his wife Alberta. Includes publication for the state burial of Olennu with order of service, a short biography and tributes.	1977, 1983, 1984, 1987, 1988, 1990
K.4	<i>re</i> Read, J. John Read was a hospital physicist and pioneer radiobiologist who died in 1993. Correspondence with colleagues and family <i>re</i> photograph, obituary, Read's papers etc. Includes copy of obituary and Read's 1961 John Strong Memorial Lecture 'The physics of radiotherapy and radiation biology in the early 1930s'. See also A.141.	1994

Correspondence

- | | | |
|----------|---|-----------------|
| K.5 | Scully, D.R. | 1990-1994 |
| | Scully was a school teacher who had spent a period at the International Cancer Centre, Neyyoor, India. See H.104-H.163. | |
| | Correspondence <i>re</i> S. Hawking's <i>A brief history of time</i> and Scully's interest in the philosophy of A.N. Whitehead. | |
| K.6 | VanMiddlesworth, L. | 1955, 1984-1994 |
| | Lester VanMiddlesworth or Van Middlesworth (both forms used) was Professor in the Department of Physiology and Biophysics, University of Tennessee, Memphis, USA. | |
| | Principally Christmas letters from the VanMiddlesworth family. Letter of 17 July 1990 encloses copy of 1955 correspondence between Miller and Van Middlesworth. | |
| K.7 | Walton, E.T.S. | 1990, 1994-1995 |
| | 1 letter only from Walton 1990. Letters 1994, 1995 are from Walton's son Philip. | |
| | Folder includes obituaries of Walton who died in 1995. | |
| K.8-K.13 | Chronological sequence | 1970-1995 |
| K.8 | 1970, 1976. | |
| K.9 | 1984-1989 | |
| | Letter of September 1986 from the Methodist Church Division of Ministers congratulates Miller on his 60 years as a local preacher. | |
| | Letter from E.J. Wayne, 14 June 1989, recalls the exciting days in 1947 when 'we first began to use radio isotopes in Sheffield, well before other centres in the country'. | |
| K.10 | 1990-1991 | |
| K.11 | 1993. | |

Correspondence

K.12

1994.

Includes obituary of F.W. Spiers.

K.13

1995.

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