

## Science and Technology Collections at Churchill Archives Centre

Extract from the Churchill Archives Centre Guide to Holdings on our website:

<https://archives.chu.cam.ac.uk/collections/guide-holdings/>

Sections on Astronomy, Biology, Chemistry, Engineering, Military, Nuclear and Physics

### **1. Astronomy**

#### **BONDI, Professor Sir Hermann (1919-2005)**

See Engineering section

#### **ELSMORE, Bruce**

Physicist.

Memoir of working in the radio astronomy group at the Cavendish Laboratory, Cambridge, 1948-89, particularly with Martin Ryle.

MISC 95 1 file

A more detailed description is available on [ArchiveSearch](#)

#### **HEWISH, Professor Antony (b.1924)**

Professor of Radio-Astronomy, University of Cambridge, 1971-89; Fellow of Churchill College, Cambridge, 1962-.

Winner (joint) of Nobel Prize for physics, 1974.

Papers comprising pulsar discovery charts, lecture notes, laboratory notebooks and logbooks, and correspondence and memorabilia, mainly about the award of the Nobel Prize, 1949-2013.

HWSH 9 boxes and 1 file

A more detailed description of the collection is available on [ArchiveSearch](#)

#### **MACKAY, Professor Craig (b 1944)**

Astronomer.

Notes, overlays, photographs for optical counterparts to pulsars, c1968-69.

MISC 109 1 box

A more detailed description is available on [ArchiveSearch](#)

#### **RATCLIFFE, John Ashworth (1902-87)**

See Physics section

### **RYLE, Sir Martin (1918-84)**

Professor of Radio Astronomy, Cambridge, 1959-82; Astronomer Royal, 1972-82.

Winner (joint) of Nobel Prize for physics, 1974.

Scientific correspondence and papers, 1924-98.

RYLE 125 boxes

A more detailed description of this collection is available on [ArchiveSearch](#), while a [pdf of the catalogue](#) is also available.

## **2. Biology**

### **BRETSCHER, Dr Mark (b 1940)**

Research fellow, Gonville and Caius College, Cambridge 1964-70 (research student 1961-64); Head, Division of Cell Biology MRC Laboratory of Molecular Biology Cambridge, 1984-95 (member Scientific Staff 1965-2005); FRS 1985.

Working scientific papers of Mark Bretscher 1961-2009, starting from his early work on the genetic code and protein biosynthesis, then moving into his work on cell membranes and cell movement.

Also includes some correspondence and photographs.

BRTS 12 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **CRICK, Francis Harry Compton (1916-2004)**

Molecular biologist.

Papers on protein synthesis and the genetic code for proteins, produced while Crick was working at the Medical Research Council Unit for the Study of Molecular Biology, Cambridge, c 1953-69.

MISC 90 6 files

A more detailed description is available on [ArchiveSearch](#)

### **EDWARDS, Sir Robert Geoffrey (1925-2013)**

Professor of Human Reproduction

Personal and scientific papers relating to Edwards's work on in vitro fertilisation.

EDWS 141 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

### **EDWARDS ASSOCIATED**

Material relating to Sir Robert Edwards.

EDWS AS 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **FRANKLIN, Rosalind Elsie (1920-58)**

Crystallographer.

Scientific correspondence and papers, 1927-58.

FRKN 27 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

Most of Franklin's papers are available online on the [Wellcome Library's website](#)

**HILL, Professor Archibald Vivian (1886-1977)**

See Military section

**KEYNES, Professor Richard Darwin (1919-2010)**

Professor of Physiology, University of Cambridge, and Fellow of Churchill College.

Correspondence, 1950s-2000s, with some papers relating to the Anti-Submarine Experimental Establishment (1942) and naval radar research (1944-45); volumes of notes on experiments, 1947-79; research papers and data files, late 1970s-1990s.

KEYN 161 boxes (uncatalogued)

A more detailed description of the collection is available on [ArchiveSearch](#)

**KLUG, Sir Aaron (b.1926)**

Biophysicist.

Papers.

KLUG 348 boxes

A more detailed description of the collection is available on [ArchiveSearch](#)

**MILSTEIN, César (1927-2002)**

Molecular biologist.

Papers including correspondence and research notes, ca. 1952-2002.

MSTN 129 boxes

A more detailed description of this collection is available on [ArchiveSearch](#) and a [pdf of the catalogue](#) is also available.

See also this online exhibition on Milstein, from the [What is Biotechnology](#) web site.

**PATIENT PIONEERS ORAL HISTORIES**

Oral history interviews with five patients who underwent treatment for infertility in the 1980s and 1990s (IVF and other fertility treatments)

PPOH 5 interviews comprising 9 electronic files (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

Edited extracts of the interviews are available on the [Patient Pioneers website](#)

**PERUTZ, Doctor Max Ferdinand (1914-2002)**

Molecular biologist.

Correspondence, photographs and literary papers.

PRTZ 45 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**RABEL, Dr Gabriele (1880-1963)**

See Physics section

**RANDALL, Sir John Turton (1905-84)**

See Physics section

**RANKIN, Barbara (1933-2019)**

Secretary to Professor Robert Edwards.

Series of scrapbooks recording the work on human embryology (and particularly in vitro fertilisation, IVF) carried out by Edwards and his colleagues, 1955-2009

BARA 11 volumes

A more detailed description of this collection is available on [ArchiveSearch](#)

**STEPTOE, Patrick (1913-1988)**

Obstetrician and gynaecologist. Pioneer of laparoscopy and in vitro fertilisation (IVF)

Personal and scientific papers relating to Steptoe's professional life. Including correspondence, scientific articles, photographs and slides.

STPT 6.5 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**STEVEN, George Alexander RNVR (1900-58)**

Royal Navy Volunteer Reserve and Marine Biologist

Daily engagement calendar as navigation officer of HMS St Wistan 1940-43, and associated papers.

DSTV 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**WIGGLESWORTH, Professor Sir Vincent Brian (1899-1994)**

Entomologist; Fellow of Gonville and Caius College, Cambridge.

Scientific papers, diaries, photographs and correspondence covering his research into disease and insect physiology, 1923-90.

WIGG 50 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

### **3. Chemistry**

**HARTLEY, Brigadier-General Sir Harold (1878-1972)**

Chemist; Controller of Chemical Warfare, 1918-19; Government Adviser.

Personal, official and scientific papers, c1890-1978.

HART 385 boxes (some closures or restrictions)

A more detailed summary of this collection is available on [ArchiveSearch](#) and a pdf box list is available on request

**HUTCHISON, Sir (William) Kenneth (1903-89)**

Chemical Engineer; Chairman, South Eastern Gas Board, 1948-59; Deputy Chairman of the Gas Council, 1960-6.

Papers, mainly on the production of autobiography, *High Speed Gas*, 1987.

HTSN 12 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**MADDOCK, Dr Alfred**

See Nuclear section

**TODD, Alexander Robertus, Baron (1907-97)**

Scientist.

Papers relating to his career as Professor of Organic Chemistry at Cambridge, 1944-71, Master of Christ's College, 1963-78, and Scientific Adviser to various Governments.

TODD 245 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**ZVEGINTZOV, Michael (Mischa) (1904-78)**

Deputy Director-General of Chemical Branch of British Control Commission in Germany.

Papers on political intelligence, 1940-6, and Control Commission (Chemical Branch); Political and Economic Planning and Royal Institute for International Affairs.

ZVEG 14 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

## ***4. Engineering***

**AGAR, Alan**

Papers on the history of the Electron Microscope, 1945-98.

AGAR 13 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**ALBU, Austen Harry (1903-94)**

Engineer; Labour MP, 1948-74; Minister of State, Department of Economic Affairs, 1965-7.

Correspondence and papers.

ALBU 36 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**ARUP, Sir Ove Nyquist (1895-1988)**

Consulting engineer.

Personal and professional papers including housing and shelter projects during the World War II and major post-war engineering projects, 1923-1988.

ARUP 90 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**ARUP ORAL HISTORY PROJECT**

Interviews with architects and engineers who worked with or knew Ove Arup.

AROH 71 cassettes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BACON, Francis Thomas (1904-92)**

Engineer.

Papers on the development of the Fuel Cell, 1940-90.

BACN 150 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BAILEY, W**

Member of team at Royal Aircraft Establishment researching axial jet engines, 1940-45.

Paper "The Early Development of the Aircraft Jet Engine", April 1995.

MISC 67 1 file

A more detailed description is available on [ArchiveSearch](#)

**BAKER, John Fleetwood Baker, Baron (1901-1985)**

Professor of Mechanical Sciences at Cambridge, 1943-68.

Papers on engineering, World War II air raid precautions, and the University Grants Committee, 1925-85.

LDBA 202 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**BANKS, Air Commodore Francis Rodwell (1898-1985)**

Papers relating to Banks's career in aviation, including an autobiography *I Kept No Diary*, 1983.

FROB 7 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BARLOW, Professor Harold Everard Monteagle (1899-1989)**

Electrical Engineer; Member of Telecommunications Research Establishment, Air Ministry, 1939; Superintendent, Radio Department, RAE, 1943-5; Member of Radar and Signals Advisory Board, Ministry of Supply, 1947.

Papers on development of radar and microwaves.

BRLW 19 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BONDI, Professor Sir Hermann (1919-2005)**

Mathematician and Master of Churchill College, 1983-90.

Correspondence and papers, including papers relating to Churchill College and video cassettes of television interviews, 1982 and 1987.

BOND 109 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BRAY, Dr Jeremy William (1930-2002)**

Labour MP, 1962-70, 1974-97; Parliamentary Secretary, Ministry of Power 1966-7, Ministry of Technology 1967-8, Opposition spokesman on science and technology, 1983-92.

Papers re Parliamentary Committees on Nationalised Industries, Science and Technology etc, and other political, economic, mathematical and constituency papers, 1953-97.

BRAY 474 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**CLAUSEN, Hugh (1888-1972)**

Naval armaments engineer.

Technical papers and lectures, 1938-69.

CLSN 7 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**COLQUHOUN, Cecil Brian Hugh (1902-77)**

Resident Engineer, Mersey Tunnel, 1930 and Resident Engineer-in-Charge, 1933-1936; Director General of Aircraft Production Factories, 1941-4; Engineering Adviser to World Bank, 1954-7 and to Parliamentary Channel Tunnel Committee, 1956-7.

Papers, photographs and plans, mainly relating to Colquhoun's work on the Mersey Road Tunnel, but also on the Channel Tunnel and other engineering projects.

COLQ 8 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**DRACONE DEVELOPMENTS LIMITED**

Photographs, press cuttings and promotional material on the work of the Dracones oil barges during the oil crisis, 1957-75.

DRAS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**EASTWOOD, Sir Eric (1910-81)**

Research Engineer.

Papers including material relating to the development of radar.

EAST 66 boxes (some closures or restrictions)

A more detailed description of the collection is available on [ArchiveSearch](#)

**FARREN, Sir William Scott (1892-1970)**

Aeronautical engineer; Director of Technical Development, Ministry of Aircraft Production, 1940-1.

Papers and photographs, 1915-68.

FREN 5 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**GOLLIN, Geoffrey J (1901-92)**

Engineer.

Papers and photographs of experiments on rockets and power jets, 1938-42.

GOLN 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**HALDANE, T G N (1897-1981)**

Scientist.

Papers and diaries on service in Royal Navy during World War I and subsequent career as consultant on electrical and other power supplies, 1914-1975.

TGNH 14 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**HARDINGHAM, Sir Robert Ernest (1903-91)**

Aeronautical Engineer; Chief Executive, Air Registration Board, 1947-68.

Correspondence and papers, 1921-91.

HRDM 4 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**HAWTHORNE, Professor Sir William Rede (1913-2011)**

Master of Churchill College, 1968-83; Professor of Applied Thermodynamics, 1951-80; Head of Department of Engineering, 1968-73.

Personal and professional papers, 1910-1999.

HATN 241 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**HINDSON, Donald**

Coalmining engineer.

Copy of Hindson's article in the Colliery Guardian, "The Future of Coalface Mechanization", 1966.

MISC 66 1 file

A more detailed description is available on [ArchiveSearch](#)

**HINTON OF BANKSIDE, Baron, Christopher Hinton (1901-83)**

See Nuclear section

**HOOKER, Sir Stanley George (1907-1984)**

Engineer.

Copies of papers by Hooker on the historical development of gas turbines and jet propulsion, 1980.

STHO 1 file

A more detailed description of this collection is available on [ArchiveSearch](#)

**HURREN, Bernard J**

Notes and unpublished biography of Sir Barnes Wallis; and *The British Aircraft Industry 1939* produced by Society of British Aircraft Constructors.

HREN 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**HUTCHISON, Sir (William) Kenneth (1903-89)**

See Chemistry section

**JONES, Sydney (1911-90)**

Engineer.

Papers on the conformable wheel, 1980-90.

JNES 3 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**KELLY, Professor Anthony (1929-2014)**

See Physics section

**LANSING BAGNALL**

Illustrative material on Fork Lift Trucks produced by the company and their factories.

LABA 59 Boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**LE BAILLY, Vice-Admiral Sir Louis (1915-2010)**

See Military section

**LLOYD, John (1888-1978)**

Aircraft designer.

Papers and photographs relating to aircraft design.

JOLD 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**MACLEAN, of Pennycross, Rear-Admiral Iain Gilleasbuig (1902-88)**

See Military section

**MACRAE, Colonel R S (c 1900-c 1980)**

See Military section

**OATLEY, Sir Charles (1904-1996)**

Professor of Electrical Engineering, University of Cambridge, 1960-71.

Account of Oatley's wartime work in the development of radar; papers and correspondence on the development of the Scanning Electron Microscope at the University of Cambridge Engineering Department; papers on Oatley's development of the Electrical Sciences Tripos at Cambridge.

OATL 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**PEARSON, Sir James Denning (1908-92)**

Engineer; Chairman and Chief Executive, Rolls Royce Limited, 1969-70.

Papers, 1932-92

PRSN 10 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**POLLEN, Arthur Joseph Hungerford (1886-1937)**

Inventor, naval engineer and journalist.

Papers comprising articles and press cuttings about naval gunnery, 1901-36.

PLLN 59 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**PRESTON, Professor Joseph Henry (1911-85)**

Aeronautical engineer. Consultant to Royal Aircraft Establishment and Admiralty Research Laboratory, 1940-68, and Professor of Fluid Mechanics at Liverpool, 1955-76.

Scientific reprints, working papers and personal papers, 1930-76.

PRES 8 boxes and 1 roll

A more detailed description of this collection is available on [ArchiveSearch](#)

**PROBERT, Rhys (1921-80)**

Aeronautical Engineer. Royal Aircraft Establishment, 1942-44; Power Jets Ltd, 1944-46; National Gas Turbine Establishment, 1947-63; Director- General, Scientific Research/Air, Min. of Aviation, 1963-68; Dep. Controller of Aircraft A, Ministry of Technology, later MoD, 1968-72; Director Royal Aircraft Establishment, 1973-80. Director Royal Aircraft Establishment, 1973-80.

Papers, 1943-80.

PROB 12 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**RATCLIFE, John Ashworth (1902-1987)**

See Physics section

**SCOURSE, Rear Admiral Frederick Peter (b.1944)**

Unpublished memoir, letters, documents and photographs relating to Scourse's career in the Royal Navy where he specialised in submarine engineering then became Military Assistant to the Chief of Defence Procurement, 1987-89; Director of General Surface Weapons (Navy), 1989-94; and Director General of Surface Ships and Controller, 1994-97.

SCOU 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**SEDDON, John (1915-91)**

Aeronautical Engineer, Royal Aircraft Establishment, 1939-66.

Papers 1939-1981.

SDDN 11 boxes and 2 rolls of plans

A more detailed description of this collection is available on [ArchiveSearch](#)

**SHIRE, Edward Samuel (1908-1978)**

See Physics section

**SMITH, J Philip**

Aeronautical Engineer.

Papers on the European Airbus and other aircraft, 1965-1980.

SMTH 7 boxes plus 4 rolls

A more detailed description of this collection is available on [ArchiveSearch](#)

**STANTON-JONES, Richard (1926-91)**

Engineer.

Papers on development of the hovercraft, 1959-84.

STJN 12 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**WALLIS, Sir Barnes Neville (1887-1979)**

Inventor of bouncing bombs which destroyed Möhne and Eder Dams, and penetration bombs, 1940-5; Chief of Aeronautical Research and Development, British Aircraft Corporation Limited, Weybridge, 1945-71.

Aeronautical research reports, 1940-63.

WLIS 2 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**WEISSENBERG, Dr Karl (1893-1982)**

Physicist.

Papers, 1938-70.

WEIS 21 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**WHITTLE, Air Commodore Sir Frank (1907-96)**

Aeronautical Engineer. Inventor of the Jet engine.

Personal and research papers

WHTL 97 boxes & 12 rolls (special conditions/some closures or restrictions)

A summary description of this collection is available on [ArchiveSearch](#) while a [pdf of the full catalogue](#) is also available.

**WHITTLE ASSOCIATED**

Material relating to Whittle or to the work carried out at Power Jets Limited during WWII.

WHTL AS 10 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**CAMBRIDGE UNIVERSITY, Department of Engineering**

Exhibition material on the history and development of the Whittle Jet Propulsion Gas Turbine

MISC 40 3 boxes and 1 outsize item

A more detailed description is available on [ArchiveSearch](#)

**WILSON, William Lawrence (1912-93)**

Civil Servant and Engineer. Office of Works (later the Department of the Environment), 1936-73.

Papers comprising a memoir, a history of engineering in the Office of Works and lectures, 1952-92.

WLSN 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**WOODWARD-NUTT, Arthur E (1902-80)**

Aeronautical engineer.

Papers on aeronautical research and Institution of Production Engineers, 1926-79.

WONU 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**5. Military**

**BAGNOLD, Brigadier Ralph Alger (1896-1990)**

Explorer, soldier and scientist.

Personal, scientific and military papers, including material on expeditions and research in the Middle East and North Africa, 1924-90, and on the Long Range Desert Group, 1940-1.

BGND 10 archive boxes, 188 maps and 16 boxes of negatives

A more detailed description of this collection is available on [ArchiveSearch](#)

**BAGNOLD ASSOCIATED**

Copy of a diary kept by Ronald Peel during an expedition to the Libyan Desert led by Brigadier Ralph Bagnold, 1938.

BGND AS 1 microfilm

A more detailed description of this collection is available on [ArchiveSearch](#)

**BAKER, John Fleetwood Baker, Baron (1901-1985)**

See Engineering section

**BANKS, Air Commodore Francis Rodwell (1898-1985)**

See Engineering section

**BARLOW, Professor Harold Everard Monteagle (1899-1989)**

See Engineering section

**BOWEN, Edward George (1911-1991)**

See Physics section

**BRUNDRETT, Sir Frederick (1894-1974)**

Scientific Adviser to Ministry of Defence and Chairman of Defence Research Policy Committee, 1954-9; Chairman, Air Traffic Control Board; member of the White Fish Authority, 1961-73.

Lectures on the use of science in defence, 1951-63; papers relating to the White Fish Authority and marine research and development, 1963-71; letters and papers of the Air Traffic Control Board, 1971-72.

BRUN 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BULLARD, Sir Edward Crisp (1907-80)**

See Physics section

**CLAUSEN, Hugh (1888-1972)**

See Engineering section

**COCKBURN, Sir Robert (1909-94)**

Scientist; Scientific Adviser to the Air Ministry, 1948-53.

Papers relating to research in radar, atomic energy and guided weapons, 1939-59.

ROCO 4 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**CONDREN, William Joseph "Con" (1900-1975)**

Government photographer, Secret Weapons Establishment, Woolwich, 1939-45, UKAEA, Harwell, 194?-60.

Photographs and papers, 1939-54

CNDN 3 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**EASTWOOD, Sir Eric (1910-81)**

See Engineering section

**FARREN, Sir William Scott (1892-1970)**

See Engineering section

**GOODEVE, Sir Charles Frederick (1904-80)**

Chemist. Deputy Director of the Department of Miscellaneous Weapon Development, 1940-2, and Deputy Controller of Research and Development, 1942-5, at the Admiralty.

Papers comprising articles, lectures, correspondence, a diary, research notes, press cuttings, photographs and microfilm, 1920-80.

GOEV 40 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**HARTLEY, Brigadier-General Sir Harold (1878-1972)**

See Chemistry section

**HILL, Professor Archibald Vivian (1886-1977)**

Physiologist; Independent MP, 1940-5.

Personal and scientific papers.

AVHL 71 boxes

A more detailed description of the collection is available on [ArchiveSearch](#)

**HURREN, Bernard J**

See Engineering section

**JONES, Reginald Victor (1911-1998)**

Scientific Officer, Air Ministry, 1936; Assistant Director of Intelligence, 1941; Director of Intelligence, 1946; Director of Scientific Intelligence, Ministry of Defence, 1952-3; Professor of Natural Philosophy, University of Aberdeen, 1946-1981.

Papers, 1911-1998

RVJO 229 boxes

A more detailed description of the collection is available on [ArchiveSearch](#) and a [pdf of the full catalogue](#) is also available

**KEYNES, Professor Richard Darwin (1919-2010)**

See Biology section

**LE BAILLY, Vice-Admiral Sir Louis (b.1915)**

Papers on naval engineering and intelligence issues, 1930-92; includes some papers of R.F. Le Bailly and W.F.G. Le Bailly, 1885-1914, 1885-92.

LEBY 20 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**LENNARD-JONES, Sir John Edward (1894-1954)**

See Physics section

**MACLEAN, of Pennycross, Rear-Admiral Iain Gilleasbuig (1902-88)**

Deputy Engineer in Chief of the Fleet, 1952-5.

Papers on British naval and marine engineering after World War II.

MCLN 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**MACRAE, Colonel R S (c 1900-c 1980)**

Mechanical engineer and second-in-command of the Second World War weapons research establishment, M.D.1.

Correspondence and papers on the development of unconventional weapons in "Winston Churchill's Toyshop", 1920-71.

MCRA 17 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**MADDOCK, Dr Alfred**

See Nuclear section

**NAVAL RADAR TRUST**

Papers on the Development of Naval Radar, 1928-97, including the papers of the physicist Eric Megaw.

NVRT 91 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**NAVAL RADAR TRUST ASSOCIATED**

Other deposited collections relating to the history of Naval Radar, inc JDS Rawlinson, c.1928-1988

NVRT AS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**POLLEN, Arthur Joseph Hungerford (1886-1937)**

See Engineering section

**PONTECORVO, Bruno (1913-1993)**

See Nuclear section

**PORTEOUS, Lieutenant Ivile (1905-70)**

Primarily papers and correspondence from Porteous' service as an Artificer in the Royal Navy, including assorted technical diagrams and papers on developing plane tracking systems

PORT 14 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**PRESTON, Professor Joseph Henry (1911-85)**

See Engineering section

**PROBERT, Rhys (1921-80)**

See Engineering section

**RANDALL, Sir John Turton (1905-84)**

See Physics section

**RATCLIFFE, John Ashworth (1902-87)**

See Physics section

**SCOURSE, Rear Admiral Frederick Peter (b.1944)**

See Engineering section

**SEDDON, John (1915-91)**

See Engineering section

**SHIRE, Edward Samuel (1908-1978)**

See Physics section

**TAIT, Air Vice-Marshal Sir Victor Hubert (1892-1988)**

Director of Radar and Director General of Signals, Air Ministry, 1942-5.

Personal and Service Papers, 1920-47.

TAIT 2 boxes

A more detailed description of this collection is available on the [Janus webserver](#).

**TOMLIN, Donald M**

Articles on work of Air Defence Experimental Establishment, Army Radar Defence Establishment and Radar Research and Development Establishment in wartime army radar research, 1939-45.

MISC 28 1 file

A more detailed description of our miscellaneous holdings is available on the [Janus webserver](#).

**WALLIS, Sir Barnes Neville (1887-1979)**

See Engineering section

**WEISSENBERG, Dr Karl (1893-1982)**

See Engineering section

**WHITTLE, Air Commodore Sir Frank (1907-96)**

See Engineering section

**WHITTLE ASSOCIATED**

See Engineering section

**WILKINS, Arnold Frederic (1907-85)**

Physicist.

Typescript of *The Early Days of Radar in Great Britain*.

AWLK 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**WILSON, Professor Charles Thomson Rees (1869-1959)**

See Physics section

**WOODWARD-NUTT, Arthur E (1902-80)**

See Engineering section

**ZVEGINTZOV, Michael (1904-78)**

See Chemistry section

## **6. Nuclear**

### **BOYCE, Professor Joseph Canon (b.1903)**

See Physics section

### **BRETSCHER, Dr Egon (1901-73)**

Clerk Maxwell Scholar, 1936-9, and Lecturer, 1939-44, Cambridge University; Manhattan Project, Los Alamos, 1944-6; Head of Chemistry Division, 1947-8, and Head of Nuclear Physics Division, 1948-66, Atomic Energy Research Establishment, Harwell.

Papers comprising diaries, correspondence, notebooks, official reports, articles, lectures, press cuttings and photographs, 1918-73.

BRER 34 boxes

A more detailed description of this collection is available on [ArchiveSearch](#).

### **BURCHAM, William Ernest (b.1913)**

Undergraduate and Research Student, Cavendish Laboratory, Cambridge, 1931-39.

Notes and papers on Sir John Cockcroft and the Cavendish Laboratory.

BCHM 6 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **CHADWICK, Sir James (1891-1974)**

Nuclear Physicist; awarded Nobel Prize for Physics, 1935.

Scientific and personal papers.

CHAD 68 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

### **COCKBURN, Sir Robert (1909-94)**

See Military section

### **COCKCROFT, Sir John Douglas (1897-1967)**

Nuclear physicist; awarded Nobel Prize for Physics, 1951; Master of Churchill College, 1959-67.

Personal and scientific papers, 1921-66.

CKFT 124 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

### **COCKCROFT ASSOCIATED**

Other material relating to Sir John Cockcroft.

CKFT AS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

### **CONDREN, William Joseph "Con" (1900-1975)**

See Military section

### **FEATHER, Professor Norman (1904-78)**

Physicist.

Papers on nuclear physics and radioactivity, 1915-1978.

FEAT 72 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**FUSION, History of**

Papers on the early days of controlled thermonuclear fusion research in the UK, 1945-60, compiled by Dr J D Lawson, FRS.

HIFU 5 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**HALDANE, T G N (1897-1981)**

See Engineering section

**HILL, Sir John McGregor (1921-2008)**

Physicist; Chairman, UK Atomic Energy Authority, 1967-81.

Scientific correspondence and papers, mainly on nuclear power, 1946-1994.

HILL 11 boxes (special conditions/some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#) while a [pdf of the full catalogue](#) is also available.

**HINTON OF BANKSIDE, Baron, Christopher Hinton (1901-83)**

Engineer; Government adviser on atomic energy.

Lectures 1950s, 1960s; papers and autobiography.

HINT 6 boxes (special conditions/some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**IVANENKO, Professor D**

See Physics section

**KAPITZA, Piotr Leonidovich (1894-1984)**

See Physics section

**LAWSON, John David (1923-2008)**

Physicist in government laboratories including at the General Physics Division of the Atomic Energy Research Establishment at Harwell. Researched high power microwaves, nuclear fusion, and particle accelerators.

Papers and correspondence on Lawson's scientific work, 1948-2009.

LWSN 7 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**MADDOCK, Dr Alfred**

Papers relating to his work on the "Tube Alloys" project in Canada during World War II.

MADD 2 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **MARSHALL, Walter Charles, Lord Marshall of Goring (1932-1996)**

Worked at AERE, Harwell, 1954-57 & 1959-75, serving as Deputy Director, 1966-68, and Director, 1966-75; at the Department of Energy, as Chief Scientist, 1974-77; at UKAEA, 1969-82, serving as Deputy Chairman, 1975-81, and as Chairman, 1981-82; and at the CEGB, as Chairman, 1982-89. He was a member of NRDC, 1969-75, and NEDC, 1984-86.

Scientific and other papers.

MRSL 77 archive boxes (some closures or restrictions)

A summary catalogue of this collection is available on [ArchiveSearch](#) and a [pdf of the full catalogue](#) is also available.

### **MEITNER, Professor Lise (1878-1968)**

Nuclear physicist.

Scientific, personal and family papers and photographs, 1862-1968.

MTNR 91 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **MEITNER ASSOCIATED**

Other material relating to Professor Lise Meitner, mainly correspondence.

MTNR AS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

### **PILGRIM, Roy**

Armament Research Department, Ministry of Supply.

Roy Pilgrim was a veteran of Los Alamos and Operation Crossroads, he was the first Superintendent of the Foulness Range and in April 1954, he became trials director for the Operation Grapple H-bomb tests.

Mr Pilgrim's notes on Operation Crossroads.

PLGM 1 folder

A more detailed description of this collection is available on [ArchiveSearch](#)

### **PLOWDEN, Edwin Noel, Baron (1907-2001)**

Civil servant. Chief Planning Officer, Treasury, 1947-53; Adviser on Atomic Energy Organization, 1953-54; Chairman, Atomic Energy Authority, 1954-59.

Political and personal correspondence, correspondence with the Opinion Research Centre, 1976-88, speeches, diaries, literary papers and papers relating to Plowden's various political groups and committees on subjects including atomic energy, the aircraft industry, enquiries into the police, the Common Market and United States of Europe, 1947-94.

PLDN 76 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

### **PONTECORVO, Bruno (1913-1993)**

Nuclear physicist. Worked on British nuclear reactor programme in Canada (1943-45) then at the Atomic Energy Establishment at Harwell (1948). Defected to the Soviet Union in 1950.

Family papers and correspondence, 1917-2004.

PNVO 3 boxes plus 1 video

A more detailed description of this collection is available on [ArchiveSearch](#)

**PRICE, (Benjamin) Terence (1921-2013)**

AERE, Harwell, 1947-59; AEA, Winfrith, 1959-60; Chief Scientific Officer, MoD, 1960-63; Asst Chief Scientific Adviser (Studies), MoD, 1963-65; Director, Defence Operational Analysis Establishment, MoD, 1965-68; Chief Scientific Adviser, Ministry of Transport, 1968-71; Director of Planning/Development, Vickers Ltd, 1971-73; Secretary-General, Uranium Institute, 1974-86.

Papers relating to Price's interest in politics/economics in the 1970s and 1980s: he was linked with the Centre for Policy Studies and worked closely with John Hoskyns, an advisor to Margaret Thatcher  
PRCE 6 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**RABEL, Dr Gabriele (1880-1963)**

See Physics section

**ROTBLAT, Professor Sir Joseph (1908-2005)**

Physicist and peace campaigner.

Papers comprising working papers, notebooks, correspondence and photographs, 1934-2005.

RTBT 1117 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**RUTHERFORD, Ernest, Baron (1871-1937)**

See Physics section

**SCHONLAND, Sir Basil Ferdinand Jamieson (1896-1972)**

Nuclear physicist.

Atomic Energy Research Establishment papers, 1954-60.

SCHO 5 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**STRAUSS, George Russell, Baron (1901-93)**

Labour MP, 1929-79; Minister of Supply, 1947-51.

Unpublished autobiography.

STRS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**THOMSON, Sir George Paget (1892-1975)**

Nuclear physicist.

MAUD Committee papers and correspondence.

TMSN 8 files (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**WALTON, Ernest Thomas Sinton (1903-95)**

Physicist. Awarded Nobel Prize for Physics, 1951, (with Sir John Cockcroft).

Cavendish Laboratory notebooks and papers, with correspondence and miscellaneous items, 1927-2005.

WLTN 3 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**WILKINSON, Sir Denys (1922-2016)**

Member of Governing Board of National Institute for Research in Nuclear Science, 1957-65;

Professor of Experimental Physics, Oxford University, 1959-76.

Papers and correspondence relating to development of nuclear physics in UK and particularly at Oxford during 1960s.

WILN 13 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**WILSON, William Lawrence (1912-93)**

See Engineering section

## **7. Physics**

**BACON, Francis Thomas (1904-92)**

See Engineering section

**BORN, Professor Max (1882-1970)**

Physicist. Professor at: Berlin, 1915; Frankfurt, 1919; Göttingen, 1921; fled Nazi Germany to Cambridge, 1933; Tait Professor of Natural Philosophy, Edinburgh, 1936-53 and Professor Emeritus, 1953-70; joint Nobel Prize winner for Physics, 1954.

Papers and correspondence of Professor Max Born and his immediate family.

BORN 84 boxes and 3 items

A more detailed description of this collection is available on [ArchiveSearch](#)

**BOWEN, Edward George (1911-1991)**

Scientist; Member of the Radar Development Team, 1935; Air Ministry Research Station, Bawdsey, 1936-40; British Air Commission, Washington, 1940-2; Radiation Laboratory, MIT, 1943; Chief, Division of Radiophysics, CSIRO, 1946-71.

Papers on the development of radar, 1935-78.

EGBN 11 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**BOYCE, Professor Joseph Canon (b.1903)**

Physicist.

3 letters from Sir John Cockcroft 1938-40.

MISC 13 1 file

A more detailed description of our miscellaneous holdings is available on [ArchiveSearch](#)

**BRETSCHER, Dr Egon (1901-73)**

See Nuclear section

**BROWNE, B. C.**

Geodesy and Geophysics Department, Cambridge University.

Correspondence with Sir John Cockcroft with proposals for a geophysical survey of oceans, 1949.

MISC 5 1 file

A more detailed description of our miscellaneous holdings is available on [ArchiveSearch](#)

**BULLARD, Sir Edward Crisp (1907-80)**

Geophysicist; Assistant Director of Naval Operational Research, 1944-5; Director of National Physical Laboratory, 1950-5.

Scientific and personal papers.

BLRD 117 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**BURCHAM, William Ernest (1913-2008)**

See Nuclear section

**CASELS, James Macdonald (1924-94)**

Professor of Physics, University of Liverpool, 1956-82.

Scientific Correspondence and Papers

CASS 5 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**CHADWICK, Sir James (1891-1974)**

See Nuclear section

**COCKCROFT, Sir John Douglas (1897-1967)**

See Nuclear section

**COCKCROFT ASSOCIATED**

See Nuclear section

**COSSLETT, Dr Vernon Ellis (1908-90)**

Scientist.

Correspondence and papers concerning the development of the Electron Microscope.

COSS 127 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**COSSLETT ASSOCIATED**

Drawings relating to the construction of the first UK high voltage transmission electron microscope at the Cavendish Laboratory, 1960-1964.

COSS AS 89 plans

A more detailed description of this collection is available on [ArchiveSearch](#)

**DIRAC, Professor Paul Adrien Maurice (1902-84)**

Physicist. Awarded Nobel Prize for Physics, 1933.

Photocopies of correspondence and papers, 1924-71.

DRAC 9 boxes (some closures or restrictions)

A more detailed description of this collection is available on [ArchiveSearch](#)

**ELSMORE, Bruce**

See Astronomy section

**FEATHER, Professor Norman (1904-78)**

See Nuclear section

**FUSION, History of**

See Nuclear section

**HILL, Sir John McGregor (1921-2008)**

See Nuclear section

**IVANENKO, Professor D**

Photographs of prominent physicists, 1934-61.

MISC 16 1 box

A more detailed description is available on [ArchiveSearch](#)

**JONES, Reginald Victor (1911-1998)**

See Military section

**KAPITZA, Piotr Leonidovich (1894-1984)**

Soviet scientist.

Papers, offprints collected by Professor David Shoenberg in writing his Royal Society obituary of Kapitza.

KPZA 6 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**KEMMER, Professor Nicholas (1911-1998)**

Professor of Mathematical Physics, Edinburgh University, 1953-79.

Personal and scientific papers, 1938-1988.

KEMM 6 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**LAWSON, John David (1923-2008)**

See Nuclear section

**LENNARD-JONES, Sir John Edward (1894-1954)**

Physicist; Chief Superintendent of Armament and Research, Ministry of Supply, 1940-5.

Personal and scientific papers.

LEJO 4 boxes (special conditions/some closures or restrictions)

A summary catalogue is available on [ArchiveSearch](#) and a [pdf of the full catalogue](#) is also available.

**MEITNER, Professor Lise (1878-1968)**

See Nuclear section

**MEITNER ASSOCIATED**

See Nuclear section

**PETROPHYSICAL INSTITUTE COMMITTEE (1919)**

Minutes of meetings of the Petrophysical Institute Committee, reports and correspondence, 1919.

WWWS 1 box

A more detailed description of this collection is available on [ArchiveSearch](#)

**RABEL, Dr Gabriele (1880-1963)**

Diaries, writings and correspondence as a pupil of Richard Wettstein, Max Planck and Albert Einstein and follower of Rudolph Steiner and Count Hermann Keyserling, 1893-1961.

RABL 12 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**RANDALL, Sir John Turton (1905-84)**

Biophysicist.

Papers on cavity magnetron and biophysics, 1920-83.

RNDL 19 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**RATCLIFFE, John Ashworth (1902-87)**

Physicist.

Articles, lectures, research notes and correspondence, 1920-86.

RACL 32 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**ROTBLAT, Professor Sir Joseph (1908-2005)**

See Nuclear section

**RUTHERFORD, Ernest, Baron (1871-1937)**

Physicist.

Letters (photocopies), 1915-16, from physicist Henry Moseley - originals in the Oxford Museum for the History of Science.

MISC 2 1 box

A more detailed description is available on [ArchiveSearch](#)

**SCHONLAND, Sir Basil Ferdinand Jamieson (1896-1972)**

See Nuclear section

**SHIRE, Edward Samuel (1908-1978)**

Reader in Physics, Cambridge University. Air Defence Experimental Establishment, 1939-44, and scientific adviser on Civil Defence for the Home Office.

Papers, 1927-78, including work on atomic physics, radar and the proximity fuze.

SHRE 9 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

**STANSFIELD, Ronald G**

Physicist.

Copy of report on his work at the Cavendish Laboratory supervised by Lord Rutherford, 1936-7, and correspondence with and about Rutherford.

MISC 47 3 files

A more detailed description is available on [ArchiveSearch](#)

**THOMSON, Sir George Paget (1892-1975)**

See Nuclear section

**WALTON, Ernest Thomas Sinton (1903-95)**

See Nuclear section

**WILKINS, Arnold Frederic (1907-85)**

See Military section

**WILKINSON, Sir Denys (1922-2016)**

See Nuclear section

**WILSON, Professor Charles Thomson Rees (1869-1959)**

Physicist.

Studies of effects of thunderstorms on balloons and airships, 1918-40; reprints of scientific papers and correspondence.

CTRW 16 boxes

A more detailed description of this collection is available on [ArchiveSearch](#)

List updated 23 July 2025