

Catalogue of the papers and correspondence of

ALBERT CHARLES CHIBNALL FRS

(1894 - 1988)

Compiled by Peter Harper and Timothy E. Powell

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GENERAL INTRODUCTION

PROVENANCE

The papers were received from Professor Chibnall's widow, Dr Marjorie Chibnall FBA, in September 1991.

OUTLINE OF THE CAREER OF A C CHIBNALL

Albert Charles Chibnall, an outstanding figure in British biochemistry, was born in London on 28 January 1894. Educated at St Paul's School, 1907-12, and Clare College Cambridge, 1912-14, he served throughout the First World War, first in the Army Service Corps, transferring to the Royal Flying Corps in 1917. In 1919 he returned to academic life as a research student at Imperial College London, working with S B Schryver, Professor of Plant Biochemistry in the Botany Department, on the nitrogenous constituents of green leaves. The direction of his postwar career was confirmed by the two years, 1922-24, he spent at the Connecticut Agricultural Experiment Station, New Haven. Here he worked in the laboratory of the American plant biochemist T B Osborne whose influence was such that Chibnall continued to turn to him for advice until his death in 1929. Osborne's research assistant, and Chibnall's contemporary, H B Vickery, became a lifelong friend. In 1938 Chibnall returned to New Haven to deliver Yale University's Silliman Lectures which were published the following year as Protein metabolism in the plant.

On his return to England in 1924 Chibnall worked on plant protein metabolism in J C Drummond's biochemical laboratory at University College London, initially supported by the Department

of Scientific and Industrial Research. After a period of uncertainty when DSIR support ended suddenly in 1926, Imperial Chemical Industries stepped in to support his research at UCL and this support continued when Chibnall returned to Imperial College in 1929 as Professor of Biochemistry in succession to Schryver. With ICI support he was able to embark on a substantial programme of research in plant biochemistry as the acknowledged leader in the field, specialising in fatty and nitrogenous substances of leaves and the chemical structure of proteins. It was during this period that Chibnall collaborated with the Bristol physicist S H Piper on the chemistry of plant and insect waxes. Another significant collaboration was between Chibnall's laboratory and that of W T Astbury at Leeds University. Their mutual interest in plant protein fibres led to an investigation of possible commercial production by ICI.

In 1943 Chibnall moved to Cambridge as the Sir William Dunn Professor of Biochemistry in succession to F G Hopkins. However he became convinced that a plant biochemist was not the right person to direct medical teaching in the department of Biochemistry at Cambridge, and that unless a second chair could be founded it was his duty to resign and make way for a medically qualified biochemist. He resigned in September 1949. One of his last official duties was to preside over the First International Congress of Biochemistry held in Cambridge in 1949. After his resignation Chibnall retained a small laboratory where he continued his protein research, especially in support of F Sanger's insulin work, until 1958. During these years Chibnall made a considerable contribution to the work of the Agricultural Research Council preparing reports, visiting research centres and serving on committees; he was a member of Council, 1947-57. Chibnall's later years were largely devoted to historical studies and his publications include Richard de Badew and the University of Cambridge, 1315-1340 and Sherington - Fiefs and Fields of a Buckinghamshire Village. He died on 10 January 1988 aged 93.

DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the List of Contents. The collection includes significant biographical material and records of Chibnall's research, lectures and publications, societies and organisations, and visits and conferences. Chibnall's general scientific correspondence is particularly extensive and important.

Section A, Biographical and autobiographical, is especially noteworthy for the five volumes of unfinished family and personal history. There is also documentation of Chibnall's First World War service including photographs, and correspondence relating to the Sir William Dunn Professorship in 1943.

Section B, Research, comprises seven binders of notes covering the period 1925-37, and correspondence and papers relating to plant-protein fibres research, 1935-41, and insulin research 1951-58.

Section C, Lectures and publications, includes material relating to Chibnall's Silliman Lectures at Yale University in 1938 and the book based on them. There is also a little documentation of the 1942 Royal Society Bakerian Lecture and the 1945 Procter Memorial Lecture.

Section D, Societies and organisations, includes records of Chibnall's work for the Agricultural Research Council. Particularly well documented are the wartime reports he prepared on the direct use of leaf protein in human nutrition and protein supplies for forage. There is a little correspondence with Lord Rothschild and W K Slater, Chairman and Secretary of the ARC, respectively, and reports of a number of visits to ARC research centres. The International Union of Biochemistry is represented by correspondence and papers relating to its formation including documents circulated by C R Harington, Chairman of the International Committee established at the First International Congress of Biochemistry in 1949. There is also documentation of a further wartime report prepared by Chibnall, on human protein requirements and supplies, for the Scientific Committee on Food Policy of the War Cabinet.

Section E, Visits and conferences, is important for the records of the First International Congress of Biochemistry. There are correspondence about arrangements, committee papers, draft proceedings of opening and closing sessions and letters of thanks from participants.

Section F, Correspondence, is by far the largest in the collection. There are sequences of correspondence, sometimes extending over several decades, with plant biochemists and protein chemists in Britain and overseas, especially the USA and Scandinavia. There are particularly noteworthy sequences of correspondence with W T Astbury, K Bailey, R K Cannan, H J Channon, C S Hanes, K U Linderstrom-Lang, K P G Link, T B Osborne, S H Piper, R R Porter, F Sanger, R L M Synge, H B Vickery and A I Virtanen.

Peter Harper
Timothy E Powell
BATH 1992

SECTION A

BIOGRAPHICAL AND AUTOBIOGRAPHICAL

A.1 - A.41

Obituaries and tributes

- A.1 Memoir by R L M Synge and E F Williams, Biographical Memoirs of Fellows of the Royal Society, 35, 1990).
- A.2 The Times, 20 January 1988.
The Biochemist, August 1988.
- A.3 Memorial Service, Clare College Chapel, Cambridge, 5 March 1988.

Order of service.

Address by Lord Ashby as published in The Cambridge Review, June 1988.

Autobiographical writings

- A.4-A.8 5 volumes of typescript family history and memoirs.
- A.9 'The road to Cambridge', Annual Review of Biochemistry, 35 (1966).

'50 years ago The isolation of asparagine and glutamine from proteins', Trends in Biochemical Sciences, 7 (1982). See also F.33.

'Early days in biochemistry', issued in photocopy by the Biochemical Society, 1987.
- A.10 Interviews, 1983-84.

Correspondence with N Morgan, Wellcome Institute for the History of Medicine, re arrangements for interviews, transcript of 'interview with Prof A C Chibnall October 8th 1983 on the development of biochemistry'.

Biographical and autobiographical

Career, honours and awards

- A.11-A.14 First World War service.
- A.11 'Flying instruction' booklet inscribed 'A C Chibnall Capt'.
- A.12 'Training brigade transfer card' with date of posting to Royal Flying Corps (30.10.17), and history of training.
- A.13 'Pilots flying log book'. Records flights December 1917-August 1918.
- A.14 'Squadron orders' by Major J O Archer commanding Artillery Observation School RAF, Almaza, 3 May 1918. Records Chibnall qualified to wear wings from 1 May.
- A.15 University College, London.
- Letter of appointment (on the recommendation of J C Drummond) as honorary research assistant in the Department of Biochemistry, 21 July 1925.
- Letter from ICI offering 'the position at University College in connection with the Research Council', 14 June 1929.
- Letters of thanks for contribution to University College's centenary appeal, March 1931.
- A.16-A.18 Imperial College London.
- A.16 Letter of appointment as Assistant Professor of Biochemistry, 29 January 1930, conditions of appointment, terms of agreement, etc.
- A.17 Application for appointment as Reader, March 1931. Not proceeded with on the grounds Chibnall was already doing the same job as his predecessor who had been a full professor.
- Application for appointment as a full professor, 1936-37.

Biographical and autobiographical

- A.18 Correspondence and papers re College business, 1939, 1942-43.
- Correspondence re resignation from Professorship on election to Cambridge Biochemistry Chair, 1943-44.
- Invitation to serve as a College representative on the University Board of Advisors in respect of a new Chair in Biochemistry, 11 February 1955.
- A.19-A.22 University of Cambridge.
- A.19 Exhibition, Clare College 1912.
- Conferment of ScD 1931.
- A.20-A.22 Sir William Dunn Professorship of Biochemistry 1943.
- A.20 Correspondence re candidature; invitation, acceptance.
- A.21, A.22 Letters of congratulation. In alphabetical order.
2 folders.
- A.23 Consultancies.
- Wellcome Research Institution 1946.
- Imperial Chemical Industries (ICI) Limited 1949, 1953.
- A.24 Honorary fellowship, Royal Society of Edinburgh 1953.
- Fellowship of Imperial College, London 1961.
- Honorary D.Sc St Andrews University 1971.
- Fellowship of Society of Antiquaries of London 1978.

Biographical and autobiographical

- A.24... Congratulations on 60 years of membership of Royal Society of Chemistry. Nd.
- A.25 80th birthday, 1974.

Menu, seating plan, list of participants at birthday dinner; letters from those unable to attend, etc.
See also A.41.
- A.26 90th birthday, 1984.

Menu and seating plan for birthday dinner; letters from those unable to attend.
- A.27 Miscellaneous personal correspondence, letters of thanks in reply to Chibnall's letters of congratulation, sympathy etc.

Photographs

- A.28-A.37 First World War service.
- A.28-A.33 Army Service Corps Mechanical Transport Section (ASC MT) 1914-17.

Photographs of Chibnall, fellow officers and soldiers, camps at Holcombe near Radstock, Mudros Bay in Lemnos, on board ship, etc. Many identified and dated on verso. 6 folders.
- A.34,A.35 Royal Flying Corps (RFC) 1917-18.
- A.34 Chibnall, fellow officers, aircraft on ground, two crash landings '1st solo flight on DH6 29.12.17' and 'last solo flight Orfordness 12 Nov 1918'.

Biographical and autobiographical

- A.35 Aerial photographs including Chibnall in RE8 over pyramids, inscribed 'A fake - 2 photos superimposed'.
- A.36 Album purchased in Cairo and used for ASC MT and RFC photographs. Towards rear of album are a few photographs of Clare College rowing 1912-13 and Henley 1914.
- A.37 Small format 'Snapshots' album for aerial photographs of aeroplanes in flight. ?Photographs taken through gunsights during training.
- A.38 Yale University 1922-24.

Scientific colleagues including H B Vickery, Connecticut Agricultural Experiment Station, Chibnall's lodgings in New Haven.
- A.39 E Winterstein, Zurich, July 1935.
W W C Topley, nd (died 1944).
D N Pryanishnikov, nd (died 1948).
J L Baker, nd (died 1958).
- A.40 Trinity College Dinner, 1st International Congress of Biochemistry, Cambridge, 1949.

Dinner for Sir Paul Fildes, Lincoln College Oxford, 10 February 1962.
- A.41 Chibnall's eightieth birthday. 1974.

In conversation with R Hill; R R Porter in foreground.

SECTION B

RESEARCH

B.1 - B.21

- B.1 Binder of research notes inscribed 'Protein III' on spine. 1925.
- B.2 Binder of research notes inscribed 'Leaf Fats I' on spine. 1926-27. Index at front. Related correspondence intercalated and at rear.
- B.3 Binder of research notes. 1927-29. Related correspondence intercalated.
- B.4 Binder of research notes. 1928. Related correspondence intercalated and at rear.
- B.5 Binder of research notes inscribed on front cover 'apples'. c.1930. Index at front.
- B.6 Binder of research notes inscribed on front cover 'Runner Bean. Book I'. 1931-32.
- B.7 Binder of research notes inscribed on spine 'Phrenosin'. 1934-37. References (with index) at rear.
- B.8-B.19 Correspondence and papers re possible commercial production by ICI of plant-protein fibres. 1935-41, 1978.

See also correspondence with W T Astbury in Section F.
- B.8-B.12 'Fibre Research I'. Contents of folder so inscribed divided into five for ease of reference. 1935-40.

Research

B.13-B.19 'Fibre Research II Patents'. Contents of folder so inscribed divided into six for ease of reference. 1935-41, 1978.

B.20, B.21 Correspondence re insulin research supported by Eli Lilly and Company 1951-58. 2 folders.

SECTION C

LECTURES AND PUBLICATIONS

C.1 - C.28

- C.1, C.2 The Silliman Memorial Lectures on 'Protein Metabolism in the Plant', Yale University, October 1938.
- See also correspondence with H B Vickery in Section F.
- C.1 Invitation; correspondence re arrangements, etc.
- C.2 Notice of lectures; press release; Chibnall's opening remarks.
- C.3 - C.10 Protein metabolism in plants, Yale University Press 1939, reprinted 1964. Polish edition 1952.
- The book was based on Chibnall's Silliman Lectures.
- C.3 - C.5 Correspondence with Yale University Press, 1938-68.
- C.3 1938. Includes agreement between author and publisher.
- C.4 1939.
- C.5 1941-42, 1944-47, 1963-68. Includes preface to second printing by H B Vickery.
- C.6 Letters of thanks for complimentary copies, 1939.
- C.7 Printer's proofs of illustrations.
- C.8 Reviews.
- C.9 Royalty statements.
- C.10 Correspondence re Polish edition 1950-53.

Lectures and publications

- C.11, C.12 'Amino Acid Analysis and the Structure of Proteins',
Royal Society Bakerian Lecture, 1942.
- C.11 3lpp typescript; 2pp summary.
- C.12 Extracts from the literature.
- C.13,- C.16 2nd Procter Memorial Lecture on 'The Contribution of
the Analytical Chemist to the Problem of Protein Structure',
International Society of Leather Trades' Chemists,
21 September 1945.
- C.13 Correspondence re arrangements.
- C.14 July 1945 number of Society's Journal with lecture
announcement; January 1946 number of Journal with
lecture text.
- C.15 Procter Memorial issue (March 1928) of Society's
Journal.
- C.16 Resumé of lecture (2pp typescript); ms notes.
- C.17 Invitation to lecture from Society of Dyers and
Colourists (declined), 1945.
- 'The composition and structure of proteins'.
2pp typescript 'resumé' only, with ms inscription
'Lecture given at Utrecht in 1946 or 1947.
Procter Lecture with slight additions'.
- C.18, C.19 Lectures on proteins given in Denmark and Sweden,
May 1948. 2 folders.
- C.20 Reviews. Various dates 1937-66.

Lectures and publications

- C.21 Obituaries. Not all by Chibnall.

 H W Dudley.

 R S Hutton.

 W K Slater.

 See also D.1, F.12, F.45.
- C.22 - C.26 Chibnall's collected scientific papers. 5 volumes.
- C.27,C.28 Photocopies of items missing from collected series.
 2 folders.

SECTION D

SOCIETIES AND ORGANISATIONS

D.1 - D.31

D. 1 - D.12	AGRICULTURAL RESEARCH COUNCIL (ARC)
D.13, D.14	BIOCHEMICAL SOCIETY
D.15 - D.21	BRITISH EGG MARKETING BOARD
D.22 - D.27	INTERNATIONAL UNION OF BIOCHEMISTRY (IUB)
D.28	MACAULAY INSTITUTE FOR SOIL RESEARCH
D.29, D.30	ROYAL SOCIETY
D.31	SCIENTIFIC COMMITTEE ON FOOD POLICY OF THE WAR CABINET.

Societies and organisations

AGRICULTURAL RESEARCH COUNCIL (ARC) various dates 1940-76

Chibnall was associated with the ARC over many years in a variety of capacities including preparing reports, visiting research centres and service on committees. He was a member of Council, 1947-57.

D.1 General and personal correspondence, various dates 1947-70

Includes invitation to serve on Council, letters of thanks for service. Chibnall's letter of 25 September 1957 gives the background to his decision to withdraw from ARC activities. 1970 item is Chibnall's obituary of W K Slater, Secretary ARC 1949-60, for Chemistry in Britain.

D.2 - D.9 'A.R.C. Pirie's Grass Work'. Contents of folder so inscribed divided into eight for ease of reference. 1940-42, 1955, 1976.

Chibnall prepared a report for the ARC and Department of Scientific and Industrial Research on a proposal by N W Pirie (March 1941) for the direct use of leaf proteins in human nutrition.

D.2 - D.5 Correspondence and papers re grass-protein, Pirie's proposal, Chibnall's report, etc., 1940-42. 4 folders.

D.6 Copies of Chibnall's report, etc.

D.7, D.8 Ms notes, background material re leaf protein. 2 folders.

D.9 Later material re Pirie, 1955, 1976.

D.10 Report on protein supplies for livestock, 1941.

The report was commissioned by W W C Topley, Secretary ARC. Correspondence, copies of report, comments on report.

Societies and organisations

- D.11 Correspondence with Lord Rothschild, 1948-53.
Rothschild was Chairman of the ARC, 1948-58.
Folder includes notes headed 'Rothschild', probably prepared for meeting between Chibnall and Rothschild on ARC business c.1949, memorandum on 'the production and consumption of biochemists' by N W Pirie, 29 May 1950, and report 'of a discussion on marginal land in Shropshire'.
- D.12 Visits to ARC research centres, 1952, 1953, 1955.
Reports on visits to Hannah Dairy Research Institute, 1952; universities and research institutes in Scotland, 1953; and Long Ashton and Scotland, 1955.
Folder also includes itinerary and report on visits by C S Hanes, 1955.
See also D.28.
- BIOCHEMICAL SOCIETY various dates 1940-84
- D.13 Chibnall's resignation as Honorary Secretary, 1940.
- D.14 Correspondence re silver salver presented by the Society to Sir Arthur Harden in 1937, April - October 1968; photograph of salver.
Correspondence re honorary membership and 500th meeting, 1969.
Correspondence with Honorary Archivist, 1978-79, and Executive Secretary, 1980 and 1984.

Societies and organisations

BRITISH EGG MARKETING BOARD

1960-70

Chibnall surveyed poultry research requirements for the Board and recommended the setting up of a Scientific Advisory Committee.

- D.15,D.16 Correspondence and papers re visits to research centres, 1960. 2 folders.
- D.17 Ms notes and drafts.
- D.18 Copy of Chibnall's report, 2 November 1960.
- D.19 Printed and duplicated background material.
- D.20 Correspondence and papers, 1964, 1966.

1966 material relates to symposium on 'Environmental control in poultry production', Harper Adams Agricultural College, Newport, Shropshire.
- D.21 The Scientific Advisory Committee of the British Egg Marketing Board 1961-70. Printed booklet.

INTERNATIONAL UNION OF BIOCHEMISTRY (IUB)

- D.22 - D.25 Correspondence and papers re formation of the IUB, 1949-52. 4 folders.

Includes documents circulated by C R Harington, Chairman of the International Committee established at the First International Congress of Biochemistry in 1949. See E.8.

Societies and organisations

SCIENTIFIC COMMITTEE ON FOOD POLICY OF THE WAR CABINET

1941

Chibnall prepared a report on human protein requirements and supplies.

D.31

Copy of report, brief correspondence, etc. 1941.

Visits and conferences

- E.10 Programme and list of members. Printed booklet.
- E.11 Chibnall's opening address as President.
- E.12 Congress Dinner, Trinity College.
Menu, plan of tables, Chibnall's speech. For photographs see A.40.
- E.13 Draft proceedings for closing session of Congress.
- E.14 Chemistry & Industry, 15 October 1949.
With report of Congress proceedings.
- E.15 Report of Opening & Concluding Sessions and Three Lectures. Printed for the Biochemical Society 1950.
- E.16, E.17 Letters of thanks from Congress members. 2 folders.
- E.18 - E.20 9th Council of the Institut International de Chimie Solvay on proteins, Brussels, 6-14 April 1953.
Chibnall was invited to present a report to the Council on the chemical constitution of proteins.
- E.18, E.19 Correspondence and papers re arrangements. 2 folders.
- E.20 Chibnall's ms notes on proceedings. Includes notes headed 'My paper', 'Theorell', 'Pederssen', 'Anson's paper', 'Synge's Paper', 'Lang's Introduction' and 'Lang's paper'.

Visits and conferences

E.21

Gordon Research Conference on 'Lipid metabolism',
Meriden, New Hampshire, 16-20 August 1971.

Brief correspondence re arrangements, list of
participants etc.

SECTION F

CORRESPONDENCE

F.1 - F.158

- F.1 Ashby, E 1973, 1975
Brief social correspondence. Includes lp ms note by Chibnall on Ashby's career.
- F.2 - F.8 Astbury, W T 1933-45, 1961, 1976-77
Astbury was an x-ray crystallographer in the Textile Physics Laboratory at Leeds University who collaborated with Chibnall (and Chibnall's research student Kenneth Bailey qv) on protein structure research. The commercial possibilities of plant-protein fibres were investigated in conjunction with ICI (see also B.8-B.19).
Correspondence on research and publications.
- F.2 1933-34.
- F.3 1935 January-June.
- F.4 1935 July, August.
- F.5 1935 October-December.
- F.6 1936-39.
- F.7 1940-43, 1945.
- F.8 1961, 1976-77.
1961. Bailey's tribute to Astbury at the Memorial Service, Emmanuel Church, Leeds, 15 June.
1976-77. Correspondence re history of protein chemistry, protein fibres.

Correspondence

Correspondence and papers re Chibnall's Royal Society memoir of Bailey.

- F.15 Invitation to write memoir and material assembled for it: list of publications, Bailey's Royal Society personal record, printed obituaries, memorial service, list of references to Bailey in the Council Minutes, Trinity College Cambridge, note by Bailey 'The Trinity Picture Scheme', 1953 (on system of hiring pictures for undergraduate rooms), Bailey's tribute to Astbury at memorial service, 1961 (see also F.8).
- F.16 Correspondence from colleagues and friends of Bailey, and their recollections of him. 1963-64. In alphabetical order:
- M L Anson
J T Edsall
R H Hopkins
C M Kay
J Lugg
H Neurath
S V Perry
A Pollard
J C Ruégg
R G Westall
- Also comments on Chibnall's draft of Royal Society memoir by S V Perry and F G Young.
- F.17 Letters of thanks to Chibnall for Royal Society memoir, some with further recollections of Bailey. 1964-65, 1967. In alphabetical order:
- J D Ferry
C M Kay
H Neurath
S V Perry
A Pollard
K Schmid
F G Young
- Also letter from Perry, 1978.

Correspondence

- F.26, F.27 Channon, H J 1930-42,1977
- Channon was a colleague of Chibnall's in J C Drummond's laboratory at University College London. He moved to Leeds University in 1927 and became Professor of Biochemistry at Liverpool in 1932.
- F.26 1930-35. Includes correspondence re proposed joint discussion between Biochemical and Chemical Societies.
- F.27 1938, 1940, 1942, 1977. Also includes obituaries of Channon (died 1979).
- F.28 Clarke, H T 1933-54
- Chibnall initiated the correspondence after reading Clarke's paper on labile sulphur in protein in the Journal of Biological Chemistry.
- Includes Clarke's 'preliminary notes' on the preparation of carboxymethoxylamine, July 1936.
- F.29 Cori, C F 1946, 1948-49
- Brief correspondence re visits to England 1946 and for International Congress of Biochemistry 1949. See also E.16.
- F.30 Drummond, J C c.1954
- Draft of Royal Society obituary notice only. The obituary notice was prepared by F G Young.
- F.31-F.33 Edsall, J T 1949-65,1977-84
- F.31 1949-52. Chiefly re visits and conferences: International Congress of Biochemistry, 1949; 75th anniversary meeting of American Chemical Society, 1951; Edsall's Fulbright Professorship at Cambridge, 1952.

Correspondence

- F.38 Fruton, J S various dates 1951-80
- F.39,F.40 Grodsky, G M 1953-57,1960-61,1983
Grodsky came from Berkeley in 1954 for postdoctoral research with Chibnall.
- F.39 1953-54.
- F.40 1955-57, 1960-61, 1983. Includes copy of Grodsky's 'Report of work at Cambridge University (Oct.1954-Oct.1955)'. Correspondence 1960 is re visit to USA by Chibnall.
- F.41-F.44 Hanes, C S 1951-80
Born in Canada, Hanes did PhD research at Cambridge, and made his career there, (Reader in Plant Biochemistry and Director of ARC Unit) before returning to Canada in 1951 as Professor of Biochemistry, University of Toronto.
Personal and scientific correspondence.
- F.41 1951-54.
- F.42 1955-56, 1958-59.
- F.43 1960-61, 1963-65, 1967.
- F.44 1970-74, 1976-80. Includes Hanes's cv and list of publications to 1976.
- F.45 re Harington, C R 1972-73
re obituary notices of Harington (died 1972).
- F.46 Hird, F J R 1949-57,1968,1984
Hird came from Australia to work in Chibnall's laboratory, 1949-51.

Correspondence

- F.47,F.48 Hopkins, F G 1920,1930,1932,c.1943
- Hopkins was the first Professor of Biochemistry at Cambridge, and Chibnall's predecessor as the Sir William Dunn Professor. Chibnall appears to have inherited a little material from Hopkins. See also F.9, F.12.
- F.47 1920. Application of part of the estate of Sir William Dunn towards the foundation and endowment of a School of Biochemistry at Cambridge.
- Letters from Chairman of the Dunn Committee and Secretary of the Medical Research Council to the Vice Chancellor re Dunn benefaction, text of the 'proposed scheme', newspaper-cutting etc.
- F.48 1930, 1932, c.1943. Includes lp note 'University Department of Biochemistry Sir William Dunn Institute' c.1943.
- F.49 Jordan, R C various dates 1932-67
- Jordan was a research student of Chibnall's at Imperial College.
- F.50 Kay, H D 1941-45,1958
- F.51 Kolattukudy, P E 1964-79
- Kolattukudy worked at the Connecticut Agricultural Experiment Station on plant waxes.
- Includes Chibnall's foreword to book on chemistry and biochemistry of natural waxes edited by Kolattukudy.
- F.52 Krebs, H A 1937-53,1963
- Includes Krebs's survey of his research work in respect of Royal Society candidature, 1945.

Correspondence

- F.61 1924, 1930, 1932, 1935, 1938-39.
- F.62 1948.
- F.63 1952-53, 1955.
- F.64 1960-68.
- F.65 1970-76, 1978, 1984.
- F.66 Press-cuttings, reprints.
- F.67 Booklet comprising memorial service, biographical memoir, etc.
- F.68 Martin, C J 1930-34, 1943, 1955
- On his retirement from the Directorship of the Lister Institute in 1930, Martin accepted an invitation to take temporary control of the Institute of Animal Nutrition, University of Adelaide. He initiated the correspondence shortly before his departure for Australia.
- Includes obituary notice and order of memorial service.
- For Chibnall's reminiscences of Martin, see F.73.
- F.69 Martin, J 1970-74
- F.70 Meinwald, J 1974-76
- Chemistry of waxes.

Correspondence

- F.71 Mendel, L B 1931-34, 1953
- Chibnall was formally attached to Mendel's Department of Physiological Chemistry at Yale during his two years as visiting worker in New Haven, Connecticut, 1922-24, though his principal association was with T B Osborne (qv).
- Includes correspondence 1933 re running of British Biochemical Journal and American Journal of Biological Chemistry. 1953 letter is from A Neuberger to whom Chibnall had shown the 1933 correspondence.
- F.72 Moore, S 1950-56, 1972-81
- Principally re Moore's visits to Cambridge.
- F.73 Neuberger, A 1941-42, 1946-47, 1974
1976
- Research, recommendation, reminiscences.
- F.74 Nicholson, D C various dates 1946-82
- Nicholson began as a laboratory assistant in Chibnall's laboratory at Imperial College in 1935. He later took a PhD at Leeds University on Chibnall's recommendation and made his career at King's College (London) Medical School.
- Recommendations.
- F.75-F.79 Osborne, T B 1923-37, 1965
- Chibnall worked under Osborne at the Connecticut Agricultural Experiment Station in New Haven, 1922-24. Osborne was the world's leading authority on plant proteins who from about 1920 had initiated work on leaf proteins, Chibnall's particular research interest at that time. Chibnall considered his association with Osborne of fundamental importance to the development of his career in scientific research, and continued to turn to Osborne for advice until Osborne's death in 1929. The material includes photocopies of Chibnall's letters to Osborne.

Correspondence

- F.80 1929. The first letter in the file is from Piper to 'Dr Channon'. Data includes 'Melting points of hydrocarbons as observed by Prof. Francis'.
- F.81 1930.
- F.82 1931. Includes 'Data for the acids C₂₆ and higher'.
- F.83 1932.
- F.84 1933. Includes recommendation.
- F.85 1934.
- F.86 1935.
- F.87 1936-37, 1939. Includes recommendation.
- F.88 1953.
Also includes obituary c.1962.
- F.89-F.91 Data. 3 folders.
- F.92-F.95 Porter, R R various dates 1945-83

Porter graduated in biochemistry at Liverpool University in 1939 and after a year's research there joined the army. He served until December 1945, rising to the rank of major. He approached Chibnall in August 1945 about the possibility of being accepted as a research student in biochemistry when he was demobilised. He started work in Cambridge in January 1946 with F Sanger (qv) as his supervisor.

continued...

Correspondence

- | | | |
|--------------|--|---------------------|
| F.107, F.108 | Spahr, P-F | 1953-58 |
| | Spahr came from Switzerland in 1954 to work for a year in Chibnall's laboratory. His fellowship was renewed for a second year. | |
| F.107 | 1953-56. | |
| F.108 | 1957-58. | |
| F.109 | Stenhagen, E | 1946-52 |
| | Research on long-chain compounds. | |
| F.110-F.113 | Synge, R L M | 1939-56, 1974 |
| | Research, publications, recommendations. | |
| F.110 | 1939-40. Includes typescript of paper (with A J P Martin) 'Some applications of periodic acid to the study of the hydrooxyamino-acids of protein hydrolysates'. | |
| F.111 | 1941-42. | |
| F.112 | 1943-44, 1946, 1949-50. In a letter of 29 January 1943 Chibnall writes: 'I have watched his [Synge's] research since the days when he was a student in Hopkin's laboratory at Cambridge and I don't think I have been privileged to be concerned with any protein research which has given me greater pleasure than that which Synge has carried out in collaboration with Martin in Leeds'. | |
| F.113 | 1951-54, 1956, 1974. | |
| F.114, F.115 | Tiselius, A | 1946-50, 1957, 1961 |
| | Research, visits, international organisation of biochemistry. | |

Correspondence

- F.114 1946-47.
- F.115 1948-50, 1957, 1961.
- F.116 Tracey, M V 1955-57, 1961
- F.117 Tréfouël, J 1948-49
re International Congress of Biochemistry.
- F.118-F.123 Tristram, G R 1950-65
- After a first degree in biochemistry and research at Liverpool University, Tristram joined Chibnall's protein team at Imperial College in 1937. In 1950 he moved to St Andrew's University (Biochemistry Chair 1966).
- Research and career.
- F.118 1950-51.
- F.119 1952.
- F.120 1953.
- F.121 1954. Includes Tristram's notes on d-glutamic acid in β -lactoglobulin dated 28 November 1945 and sent to Chibnall 18 May 1954.
- F.122 1955-57.
- F.123 1959-60, 1962, 1964-65.

Correspondence

- | | | |
|-------------|--------------|---------|
| F.124-F.147 | Vickery, H B | 1925-81 |
|-------------|--------------|---------|
- Vickery became an assistant in T B Osborne's laboratory at the Connecticut Agricultural Experiment Station in 1921. He spent the rest of his professional life there, becoming Chief Biochemist on Osborne's retirement in 1928. During Chibnall's stay in Osborne's laboratory, 1922-24, they formed a lifelong friendship which influenced the course of their scientific work. Vickery was instrumental in arranging Chibnall's 1938 Silliman Lectures at Yale and assisted in the lectures' preparation.
- Research, publications, visits.
- | | |
|-------|--|
| F.124 | 1925, 1927-29. |
| F.125 | 1930. |
| F.126 | 1931. |
| F.127 | 1932. |
| F.128 | 1933. |
| F.129 | 1934. |
| F.130 | 1935 January-March. Includes correspondence <u>re</u> invitation to deliver Silliman Lectures. |
| F.131 | 1935 April-June. |
| F.132 | 1935 July-December. |

Correspondence

- F.133 1936.
- F.134 1937. Re preparation of Silliman Lectures.
- F.135 1938 January-March. Re preparation of Silliman Lectures.
- F.136 1938 April-June. Re preparation of Silliman Lectures.
- F.137 1938 July, September, December. Re preparation of Silliman Lectures, publication of lectures, etc. Includes data.
- F.138 1939. Re publication of Silliman Lectures, etc.
- F.139 1940.
- F.140 1941.
- F.141 1942.
- F.142 1943, 1945-47.
- F.143 1949-50. Includes correspondence with H B Hartley re origin of the word 'protein'.
- F.144 1951, 1953.
- F.145 1954-55, 1957-58.
- F.146 1964-65, 1968, 1971-73.

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- F.147 Reprint of 'A chemist among plants' by Vickery (Annual Review of Plant Physiology, 23, 1972); typescript draft and reprint of biographical memoir of Vickery (died 1978) by I Zelitch. Zelitch sent the draft to Chibnall in 1981.
- F.148-F.150 Virtanen, A I various dates 1933-54
Virtanen was Director of the Biochemical Institute, Helsinki.
- F.148 1933, 1937-39. Principally re invitation to Chibnall to visit Finland in September 1939.
- F.149 1945-46, 1949, 1954. Includes invitation, 3 May 1954, to contribute to a festschrift on the occasion of Virtanen's sixtieth birthday.
- F.150 Documents re scientific controversy between Virtanen and P W Wilson on the elucidation of biological nitrogen fixation. See also F.155.
- F.151 Wain, R L 1973-74, 1977
Includes reprints of Wain's Royal Society reports on visits to Mexico and China.
- F.152 Westall, R G 1953, 1963, 1971, 1974
Westall worked in Chibnall's laboratory at Imperial College from about 1930-31. Westall's letter of 27 September 1963 provides recollections of Kenneth Bailey (qv) at Imperial College.

Correspondence

- F.153, F.154 Williams, E F various dates 1939-81
- Williams became Chibnall's assistant in 1924 when Chibnall joined J C Drummond's laboratory at University College, London. He moved to Imperial College and Cambridge with Chibnall and subsequently became J Sainsbury Ltd's Director of Research.
- F.153 1939, 1943-45, 1947.
- F.154 1950, 1963, 1971-72, 1974-75, 1981. Williams's letter of 12 November 1963 provides recollections of Kenneth Bailey (qv) at Imperial College.
- F.155 Wilson, P W. 1939, 1946, 1953, 1955
- Principally re disagreement with A I Virtanen (qv).
- F.156, F.157 Wiltshire, G H 1950-58
- ~~X~~ After undergraduate studies at Cambridge Wiltshire undertook research with Chbinall before moving to the Chester Beatty Research Institute in 1950. After a period at the Rothamsted Experimental Station he moved to Rhodesia in 1957.
- F.156 1950-53.
- F.157 1954-58.
- F.158 Yemm, E W 1948-49, 1958-60
- Includes Chibnall's 'Report on the work of Dr E W Yemm'.

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