

Catalogue of the papers and correspondence

of

**ERNEST HUBERT FRANCIS BALDWIN**

(1909-1969)

Compiled by Adrian Nardone and Alan Hayward

Deposited in the Library of University College, London,

NCUACS 67/5/97

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1997

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## GENERAL INTRODUCTION

### PROVENANCE

The papers were received in April 1997 from Nicola Milligan, daughter of Ernest Baldwin through the good offices of Dr R.W.A. Oliver, Honorary Archivist of the Biochemical Society.

### OUTLINE OF THE CAREER OF ERNEST HUBERT FRANCIS BALDWIN

Ernest Hubert Francis Baldwin was born on 29 March 1909 in Gloucester. He was educated at the Crypt Grammar School, Gloucester from 1920 to 1928. In 1928 Baldwin was awarded an Open Exhibition in Natural Sciences to St. John's College, Cambridge. In 1930 he was awarded a Foundation Scholarship. He graduated with a first class degree in both parts of the Natural Science Tripos, including Part II Biochemistry. Baldwin then began postgraduate research at the Biochemistry Department at Cambridge. From 1932 to 1935 he was Hutchinson Research Student and from 1933 to 1935 he was a Senior Student of the Royal Commission for the Exhibition of 1851. In 1933 he was awarded the Henry Humphreys Prize for Research. He received his Ph.D. in 1934 for 'Some comparative studies on phosphagen'.

Baldwin was a Fellow of St. John's College, Cambridge from 1936 to 1941. He was a Demonstrator in Biochemistry from 1936 to 1943 working under Sir Frederick Gowland Hopkins and in 1943 became a Lecturer in the Biochemistry Department. Baldwin regarded Hopkins as his mentor, writing an obituary of Hopkins after his death in 1947 and co-editing with Joseph Needham a memorial volume for the First International Congress on Biochemistry entitled *Hopkins and biochemistry, 1861-1947* (1949). On 1 January 1950 Baldwin was appointed to the Chair of Biochemistry at University College, London, a position he held until his death.

Baldwin's principal research interest was comparative biochemistry. Although his early research was chiefly carried out at Cambridge, in the 1930s he also worked for periods at the marine biological stations at Roscoff, France (1931) and Tamaris sur Mer, France (1932, 1936) and at the Marine Biological Laboratory in Plymouth (1933, 1937). From 1940 to 1949 he undertook a series of investigations of the pharmacology and physiology of *Ascaris lumbricoides*. From June to August 1948 Baldwin was Senior Fellow of the Lalor Foundation visiting the Marine Biological Laboratories at Woods Hole, Massachusetts where he carried out research into the phosphagen of the invertebrates. After his move to University College, London, his principal research interests were in

the comparative biochemistry of nitrogen metabolism as well as water shortage effects on the ureotelic metabolism. Baldwin also acted as Visiting Professor at the Scripps Institution of Oceanography, La Jolla, California from December 1956 to September 1957. While there he carried out research on ureogenesis in elasmobranch fishes.

An important contribution to the development of the science of biochemistry was his active participation in the organisation of the First International Congress of Biochemistry in Cambridge in 1949 for which he acted as Joint Honorary Secretary of the Congress and also served on the Congress Committee and Executive Committee.

His reputation as an educator was one of the principal reasons for his appointment to the Chair of Biochemistry at University College, London in 1950. Here Baldwin established the first undergraduate biochemistry course at University College and orientated the biochemistry department as a branch of biological rather than chemical science. Baldwin is remembered chiefly as a communicator and this is reflected in the present collection by the extensive lectures and publications material that survives. Of particular importance were his influential books on biochemistry, *An introduction to comparative biochemistry* (1937), *Dynamic aspects of biochemistry* (1947), and *The nature of biochemistry* (1962). Various editions and translations of these books were published and reached a wide readership. Baldwin received the prestigious Cortina Ulisse Prize in 1952 for the Italian edition of *Dynamic aspects of biochemistry*.

In 1933 Baldwin married Pauline Mary Edwards with whom he had a son Nigel and a daughter Nicola. Ernest Baldwin died on 6 December 1969, and was survived by his wife and children and by his younger brother Dr. R.B.T. Baldwin.

## DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the list of contents. It covers the period 1930 to 1970.

Section A, Biographical, largely documents Baldwin's academic career from 1934 onwards. The section includes Baldwin's bound Ph.D. thesis and correspondence about his appointment to the Chair of Biochemistry at University College, London in 1950. Offers of appointments and election to the New York Academy of Sciences reflect his standing in the USA. There is also correspondence relating to the award of the Cortina Ulisse Prize in 1952. A sequence of pocket diaries covering the period 1949 to 1970 provides brief notes on his day to day schedule. The principal sequence of correspondence in the collection covering the period 1951 to 1968 is presented here. It is described by Baldwin as personal correspondence but includes exchanges with scientific colleagues. Baldwin's personal circumstances in the late 1940s are revealed in documentation relating to a legal action to retain his tenancy of a rented house in Cambridge against the wishes of his landlady. There is a photograph of the staff of the Biochemical Department at Cambridge ca. 1945 to 1950.

Section B, Research, strongly represents, in notebook form, Baldwin the research scientist. The earliest notebooks cover the period 1930 to 1933 and include material documenting Baldwin's work at Cambridge with D.M.M. Needham, J. Needham and J. Yudkin. Research from 1934 to 1948 is well documented in a continuous sequence of ten notebooks. There are also two notebooks kept while at the Marine Biological Laboratories, Woods Hole, Massachusetts during 1948 and another notebook (unbound) kept at the Scripps Institution of Oceanography, La Jolla, California during 1956 to 1957. Other research material includes tracings some of which appear to be recordings of the anthelmintic potency of drugs using what Baldwin described as 'a kymographic technique' and a few typescript draft reports and correspondence relating to W.H. Yudkin, his co-worker at Woods Hole and later at Cambridge.

Section C, Publications, lectures and broadcasts, is the largest section in the catalogue and illustrates Baldwin's role as writer and lecturer on biochemical matters. Drafts and correspondence relating to publications include material on the books *Dynamic aspects of biochemistry*, Hopkins and *biochemistry, 1861-1947*, Cole's *practical physiological chemistry* (10th edition, edited by Baldwin and David James Bell, 1955) and *The nature of biochemistry*. There is documentation relating to public and invitation lectures and extensive lecture material prepared for his biochemistry courses at Cambridge and University College, London. These show signs of revision and rearrangement and there is evidence that they were used in the preparation of some of Baldwin's books. Baldwin's general editorial correspondence is presented alphabetically by publisher or journal title. A number of BBC radio broadcasts from the 1950s are also documented in this section.

Section D, Visits and conferences, covers the period 1948 to 1965, although it does not appear to be a complete record for these years. Much of the material documents Baldwin's visits to the United States to attend conferences, give lectures at academic institutions, undertake research and take up Visiting Professorships. Particularly well documented is Baldwin's Visiting Professorship at the Scripps Institution of Oceanography, La Jolla, California, 1956-1957. A little printed material also survives for the First International Congress of Biochemistry, Cambridge, 1949, which Baldwin played an important part in organising.

There is also an index of correspondents.

#### ACKNOWLEDGEMENTS

We are grateful to Mrs Nicola Milligan and to Dr R.W.A. Oliver for their assistance in making the material available.

A.F. Nardone  
A.P. Hayward

BATH 1997



**SECTION A**

**BIOGRAPHICAL**

**A.1-A.74**

- |           |   |
|-----------|---|
| A.1-A.5   | BIOGRAPHICAL AND BIBLIOGRAPHICAL                          |
| A.6-A.17  | CAREER, HONOURS AND AWARDS                                |
| A.18-A.37 | POCKET DIARIES  |
| A.38-A.57 | CORRESPONDENCE  |
| A.58-A.68 | CAMBRIDGE TENANCY AND RELATED LEGAL<br>DISPUTE, 1936-1946 |
| A.69-A.74 | MISCELLANEOUS   |

## Biographical

### BIOGRAPHICAL AND BIBLIOGRAPHICAL

- A.1-A.3 Obituaries.
- A.1 5pp draft typescript of obituary by Gerald A. Kerkut, 10 February 1970 with covering letter to Mrs Baldwin seeking her opinion; reprint of Kerkut's obituary, *Comp. Biochem. Physiol.*, **34**, 1970.
- A.2 *Nature*, **225**, 7 February 1970.
- A.3 *The Cryptian*, **63**, July 1970.
- A.4 Biographical entry for the *Directory of British Scientists*, 1p typescript ca. 1963.
- A.5 Papers *re* memorial service.
- Letter from Mrs Baldwin *re* arrangements including her list of guests who should be invited, 29 January [1970]; press announcement of service, n.d.; Order of Service, 4 March 1970.

### CAREER, HONOURS AND AWARDS

- A.6 'Some comparative studies on phosphagen', St. John's College, Cambridge, Ph.D. thesis, April 1934.
- A.7 Application for the MacLeod-Smith Chair of Biological Chemistry at the University of Aberdeen, 7 June 1948.
- A.8 Correspondence *re* invitation to become Associate Professor in Zoology at Columbia University, New York, USA, (declined), 6 January - 17 February 1949.

### Biographical

- A.9 Correspondence *re* invitation to join the Department of Zoology at Washington University, St Louis, USA, (declined), 25 February - 20 April 1949.
- A.10 Correspondence, 6 November 1948 - 28 November 1949, *re* invitation to act as visiting professor/lecturer at the Northwestern University, Evanston, Illinois, USA, for the academic year 1949-1950, (declined).
- A.11, A.12 Appointment to the Chair of Biochemistry, University College, London, 1 January 1950.
- A.11 Correspondence *re* appointment, 26 July 1949 - 15 February 1950.
- A.12 Letters of congratulation, 2 August 1949 - 8 February 1950.
- A.13, A.14 Award of the 1952 Cortina Ulisse Prize by Edizioni Scientifiche Einaudi for the Italian edition of *Dynamic aspects of biochemistry*.
- A.13 Correspondence, 2 July-22 October 1952.
- A.14 Press announcements and related correspondence, *ca.* September/October 1952.
- A.15 Election to active membership of the New York Academy of Sciences, 15 August 1961.  
  
Correspondence *re* election, 9 August - 12 December 1961; certificate of active membership, 15 August 1961.
- A.16 Election to Fellowship of the New York Academy of Sciences, 5 December 1962.  
  
Correspondence *re* election, 6 and 11 December 1962; certificate of Fellowship.

### Biographical

- A.17 Cambridge University Sc.D., 29 July 1967.  
Correspondence *re* degree application, 27 February 1964 - 16 November 1965; degree certificate.

### POCKET DIARIES

- A.18-A.37 20 pocket diaries spanning 1949-1970. They record professional and personal engagements.
- A.18 1949-1950.
- A.19 1950.
- A.20 1951.
- A.21 1952.
- A.22 1953.
- A.23 1954.
- A.24 1955.
- A.25 1955-1956.
- A.26 1956-1957.
- A.27 1957-1958.

### Biographical

A.28	1958-1959.
A.29	1961-1962.
A.30	1962-1963.
A.31	1963-1964.
A.32	1964-1965.
A.33	1965-1966.
A.34	1966-1967.
A.35	1967-1968.
A.36	1968-1969.
A.37	1969-1970.

### CORRESPONDENCE

A.38-A.56	'General personal correspondence (London) E-K'. Contents of folder so inscribed divided into nineteen for ease of reference. Arranged in chronological order. 1951-1968.
A.38	22 October 1951-15 August 1956.
A.39	3 May 1957-2 October 1958.

**Biographical**

- A.40                    13 March-11 December 1959.
- A.41                    8 January 1960-27 April 1961.
- A.42                    29 May-4 July 1961. Recommendation.
- A.43                    11 October 1961.
- A.44                    16 November 1961.
- A.45                    25 May 1962-29 October 1963.
- A.46                    6-29 November 1963.
- A.47                    23 January-3 February 1964.
- A.48                    11 February 1964.
- A.49                    23 March-April 1964.
- A.50                    1, 4 May 1964.
- A.51                    3 June 1964. Recommendation.
- A.52                    23 June-22 October 1964.
- A.53                    27 November 1964. Recommendation.

### Biographical

- A.54 11 December 1964-14 October 1966.
- A.55 3 January 1967-15 May 1968.
- A.56 13-25 June 1968. Recommendation.
- A.57 General miscellaneous correspondence, 14 July 1955-19 July 1967.

### CAMBRIDGE TENANCY AND RELATED LEGAL DISPUTE, 1936-1946

- A.58-A.68 'Bassett business. Highworth Av. House'. Contents of folder so inscribed divided into eleven for ease of reference.
- The material relates to legal proceedings Baldwin took against his landlady Mrs Ettie May Bassett in 1945 so as to remain in his rented accommodation at 44 Highworth Avenue, Cambridge.
- Correspondence etc *re* Baldwin's tenancy and legal proceedings. Baldwin's arrangement of the correspondence has been retained, with his labelling (where given) reproduced in the entries below.
- A.58 'Agreement: Renewal', includes inventory, 3 October 1936; tenancy agreement, 30 September 1936; and correspondence, 8 October 1936-4 July 1939.
- A.59 'Summons and Hearing', statement by Baldwin, 4pp typescript, n.d.; summons, particulars of claim and notice, 25 October 1945; correspondence etc, 1-19 November 1945.
- A.60 'House hunt after leaving', 16 November 1945-31 January 1946.
- A.61 'Enquiries', 19 November 1945-18 March 1946.
- A.62 'Costs. Costs of removal?', 17 December 1945-10 January [1946].

### Biographical

- A.63 'Settlement with EMB', 22 December 1945-9 April 1946.
- A.64 Two draft briefs of Baldwin's defence counsel, 5pp and 6pp typescripts, n.d.
- A.65 Correspondence mostly *re* tenancy matters and latterly legal proceedings, 16 October 1936-9 August 1946.
- A.66 'WRNS', 1 October 1939-14 August 1940.
- A.67 'Notice to quit', 16 June 1943-17 April 1945.
- A.68 'House hunt prior to leaving', 23 April-28 October 1945.

### MISCELLANEOUS

- A.69 Photograph of the members of the Cambridge University Biochemistry Department *ca.* 1945-1950.
- A.70-A.72 Three expired passports.
- A.70 May 1948-May 1958.
- A.71 March 1958-March 1968.
- A.72 March 1968-March 1978.



**Biographical**

- A.73 Certificate for first aid examination course, June 1958; brief correspondence *re* Baldwin's withdrawal from a training course for scientific intelligence officers, 13, 14 November 1961.
- A.74 Contents of leather wallet: miscellaneous biographical memorabilia.

**SECTION B**

**RESEARCH**

**B.1-B.38**

B.1-B.27      NOTEBOOKS

B.28-B.34      EXPERIMENTAL DATA

B.35-B.38      MISCELLANEOUS

## Research

### NOTEBOOKS

- B.1 Student hardback notebook labelled 'St. John's College Cambridge', containing biochemistry notes, Michelmas Term 1930-Lent Term 1931. Some intercalated material.
- B.2, B.3 Two softback exercise books used for recording work by, D.M.M. Needham, J. Needham, J. Yudkin and Baldwin, ca. 1931. With intercalated material. Entries are in different hands, chiefly that of D.M.M. Needham.
- B.2 'Phylogenetic and ontogenetic observations on the [?phosphagens] [?1931]', so inscribed. Some pages dated 11-14 August.
- B.3 'Phylogenetic and ontogenetic observa[tions] volume the second', so inscribed. 17-25 August.
- B.4 Crypt Grammar School hardback notebook used at St. John's College, Cambridge. The pages at the front have notes on bibliographical sources followed by experimental notes dated 22 May-28 June 1933 and 27 January 1937, with undated notes at the rear. There is also an incomplete draft paper on phosphagen in cephalopod muscle at the front, n.d.
- B.5-B.14 A sequence of ten numbered hardback notebooks. The subject titles on front covers are reproduced in the entries below. Some intercalated material in each notebook. 1934-1948.
- B.5 1 'Arginase: estimation distribution in invertebrates'. 12 June-19 October 1934, paginated 1-179.
- B.6 2 'Uric acid: synthesis in *Helix pomatia*'. 31 October 1934-18 March 1935, paginated 1-179.
- B.7 3 '*Helix pomatia*: carbohydrate metabolism I'. 18 July-29 September 1935, paginated 1-84.

### Research

- B.8 4 '*Helix pomatia*: carbohydrate and general metabolism II'. 1 October 1935-5 February 1936, paginated 1-89.
- B.9 5 '*Helix pomatia*: carbohydrate and general metabolism III'. 8 December 1936-14 April 1938, paginated 1-92.
- B.10 6 'Polysaccharides I'. 3 November 1936-24 April 1940, paginated 1-92.
- B.11 7 'Polysaccharides II Lumbricus experiments I Ascaris: perfusion experiments'. 8 April 1940-18 April 1950, paginated 1-61 with 'Ascaris: perfusion experiments' at rear, 22 September-31 December 1942, paginated 1-[6].
- B.12 8 'Anthelminthics I'. 7 January 1941-5 January 1942, unpaginated.
- B.13 9 'Anthelminthics II'. 2 February 1942-16 April 1943, paginated 1-92.
- B.14 10 'Anthelminthics III'. 19 April 1943-18 August 1945, paginated 1-38 and 18 March-9 April 1948, unpaginated, with notes at rear, 9 June 1943-14 August 1946, unpaginated.
- B.15, B.16 Two hardback notebooks *re* muscle research, with intercalated material.
- B.15 'Muscle 1', so inscribed on spine. June-September 1936 and June-September 1937, paginated 1-76, with notes at rear, 19-20 October 1935.
- B.16 'Muscle 2 // Chemical papers 1', so inscribed on spine and 'Muscle and Electric Tissues', so inscribed on cover. 19-23 September 1937, paginated 77-83, 21-27 October 1937 and December 1939-12 April 1940, unpaginated, with notes at rear, 20 November 1942-14 May 1947.
- B.17 Hardback notebook labelled 'Worm Register' and inscribed on inside 'Survival Expts'. Entries on first page, 3 November 1944 and at rear, 1-7 January 1938. Some intercalated material.

### Research

- B.18, B.19 Two softback notebooks kept by Baldwin while visiting the Marine Biological Laboratories, Woods Hole, Massachusetts, USA, from June-August 1948. Some intercalated material. See B.36 and D.1-D.5.
- B.18 'Woods Hole Notes 1948 (1)', so inscribed. 26 June-19 August, with photographic negatives attached to cover.
- B.19 'Woods Hole (2)', so inscribed. 18-20 August, with additional experimental data headed '26 Sept.49 (Cambridge)'.
- B.20-B.27 'La Jolla Lab Notes. 1956-1957' and 'Urea Formation In Elasmobranchs'. Contents of folder so inscribed divided into eight for ease of reference. Originally kept by Baldwin in a ring bound notebook, the material consists of a continuously paginated series of experiments in manuscript format, dated, with a little miscellaneous unpaginated material at the end. Baldwin was Visiting Professor at the Scripps Institution of Oceanography, La Jolla, California, USA, December 1956-September 1957. See D.25-D.55.
- B.20 'Ureogenesis in Elasmobranchs' 1p manuscript draft.  
Experiments 1-10, 6-18 March 1957.
- B.21 Experiments 11-19, 20 March-28 April 1957.
- B.22 Experiments 20-43, 1-29 May 1957.
- B.23 Experiments 44-71, 3 June-3 July 1957.
- B.24 Experiments 72-105, 3-31 July 1957
- B.25 Experiments 106-122, 1-23 August 1957.
- B.26 Experiments 123-125, 3-[6] September 1957.

### Research

B.27                      Miscellaneous experimental data, undated, unpaginated.

### EXPERIMENTAL DATA

This research material includes tracings recording the anthelmintic potency of drugs using what Baldwin described as 'a kymographic technique'. See 'An *in vitro* method for the chemotherapeutic investigation of anthelmintic potency', *Parasitology*, **35**, July 1943 (C.231).

B.28-B.31                Four index card boxes containing a numbered sequence of tracings. B.28 and B.29 also contain index cards with notes on drugs. Inscriptions on the boxes have been reproduced in the entries.

B.28                      'Miscellaneous 1-79'.

B.29                      'Ketones and Phenols 80-136'.

B.30                      'Pyridines; Miscellaneous; Thiazoles. 137-199'.

B.31                      Unmarked box containing tracings 200-297.

B.32-B.34                Miscellaneous tracings.

B.32                      'Ascaris drugs...'. Contents of envelope so inscribed.

B.33                      'Best earthworm drugs'. Contents of envelope so inscribed.

B.34                      'Hexylresorcinol 1:10,000'. Contents of envelope so inscribed.

**Research**

**MISCELLANEOUS**

- B.35                    'Interim report on work on anthelminthics', 7pp typescript report *ca.* 1936.
- B.36                    Correspondence *re* arrangements for joint research by W.H. Yudkin and Baldwin at Woods Hole, Massachusetts, USA and at Cambridge, September 1947-August 1949. See also B.18, B.19, D.1-D.5.
- B.37                    Draft reports on nitrogenous excretion of Amphipods and Isopods, *ca.* 1947.  
3pp typescript; 1p typescript; 4pp typescript.
- B.38                    1p manuscript notes, n.d.

**SECTION C                      PUBLICATIONS, LECTURES AND BROADCASTS                      C.1-C.232**

C.1-C.146      PUBLICATIONS

C.1-C.126      Drafts

C.127-C.146      Editorial correspondence

C.147-C.223      LECTURES

C.147-C.177      Invitation and public lectures

C.178-C.221      Teaching

C.222, C.223      Lecture slides

C.224-C.230      BROADCASTS

C.231, C.232      REPRINTS



## Publications, lectures and broadcasts

### PUBLICATIONS

#### Drafts

Arranged in chronological order. Where there is documentation for a number of editions of the same publication, the date of the first edition has been used to place the material in the chronological sequence.

Little is to be found relating to Baldwin's influential *An introduction to comparative biochemistry* (1937), see C.109 and, in editorial correspondence, C.134, C.135. There is considerably more material relating to *Dynamic aspects of biochemistry* (1947) see C.4-C.45, *Cole's practical physiological chemistry* (10th edition 1955) see C.69-C.102 and *The nature of biochemistry* (1962) see C.201-C.220.

- C.1 'Rigidification in phylogeny', *Perspectives in Biochemistry*, 1937.  
Reprint with manuscript alterations.
- C.2 'The pigmentation of cavernicolous animals: the carotenoid pigments of some amphipod crustacea' with R.A. Beatty, *Journal of Experimental Biology*, **18**, 1941.  
11pp typescript including table (annotated).
- C.3 'Biochemistry', no bibliographical reference but inscribed 3 March 1946.  
12pp typescript (annotated).
- C.4-C.45 *Dynamic aspects of biochemistry*, Cambridge University Press, 1947.  
See also C.136 for a 1967 memorandum of agreement with the publishers.

### Publications, lectures and broadcasts

- C.4-C.15 'Dyn. Aspects M.S.'. Contents of folder so inscribed divided into twelve for ease of reference. University biochemistry course lecture material and draft chapters dealing with various aspects of metabolism and biochemistry. Throughout Baldwin has carried out alteration and rearrangement. Baldwin used his lecture course as the basis for his book. The original arrangement has been retained.
- C.4 'Chapter XVII. Some general aspects of metabolism', 17pp typescript draft.
- C.5 'Chapter XI. Nucleic acids and nucleoproteins', 18pp typescript draft with tables.
- C.6 14pp typescript and 1p manuscript of an incomplete draft chapter adapted from a lecture.
- C.7 'Excretion of water and salts', 11pp typescript lecture.
- C.8 'Acquisition of water', 9pp typescript lecture.
- C.9 'Properties of the internal medium: osmotic pressure', 11pp typescript lecture.
- C.10 'Properties of the internal medium: relative ionic composition', 11pp typescript lecture.
- C.11 6pp typescript lecture.
- C.12 'Properties of the external medium', 10pp typescript lecture.
- C.13 9pp typescript lecture.
- C.14 8pp typescript lecture.

**Publications, lectures and broadcasts**

- C.15                    Typescript and manuscript lecture with annotations and additions.
- C.16-C.43            'Dynamic Aspects correspondence with C.U.P. [Cambridge University Press] and reviews'. Contents of folder so inscribed divided into 28 for ease of reference. 1945-1969.
- The material has been arranged in date order as far as possible and relates to the different editions produced between 1946 and 1969. It includes letters to Baldwin reflecting the reception of his book around the world. Press reviews of the different editions can be found at C.39-C.43.
- C.16                    25 October 1945 - 30 December 1946, includes signed memorandum of publication agreement, 26 February 1946.
- C.17                    22 January 1947 - 31 December 1949.
- C.18                    3 January - 19 December 1950.
- C.19                    12 February - 29 June 1951.
- C.20                    2 July - 14 December 1951.
- C.21                    23 January - 20 June 1952.
- C.22                    4 August - 30 December 1952.
- C.23                    16 March - 7 November 1953.
- C.24                    27 January 1954 - 12 December 1955.
- C.25                    10 January - 13 December 1956.

**Publications, lectures and broadcasts**

- |      |                                    |
|------|------------------------------------|
| C.26 | 23 January - 17 December 1957.     |
| C.27 | 7 January - 19 December 1958.      |
| C.28 | 16 January - 25 November 1959.     |
| C.29 | 23 February - 8 December 1960.     |
| C.30 | 5 April - 17 November 1961.        |
| C.31 | 20 March - 6 November 1962.        |
| C.32 | 16 January - 9 December 1963.      |
| C.33 | 16 January - 22 December 1964.     |
| C.34 | 4 January 1965 - 20 December 1966. |
| C.35 | 3 January - 8 June 1967.           |
| C.36 | 17 July - 3 November 1967.         |
| C.37 | 11 March - 28 November 1968.       |
| C.38 | 17 February - 19 November 1969.    |

**Publications, lectures and broadcasts**

- C.39-C.43 Press reviews of various editions of *Dynamic aspects of biochemistry*.
- C.39 First edition, 1947.
- C.40 Second edition, 1952.
- C.41 Third edition, 1957.
- C.42 Fourth edition, 1963.
- C.43 Fifth edition, 1967.
- C.44 'Dynamic Aspects. Books. Outside Correspondence'. Contents of folder so inscribed.  
  
Correspondence, 8 April 1947-2 November 1949.
- C.45 Dust jacket for fifth edition.
- C.46 'Biochemistry and evolution', ca. 1947.  
  
Two 17pp typescripts with annotations; letter from Penguin Books Limited inviting Baldwin to write an article on the chemical evidence for various aspects of evolution, 18 February 1947.
- C.47-C.49 'An isolated nerve-muscle preparation from *Ascaris lumbricoides*' with V. Moyle, *Journal of Experimental Biology*, **23**, Nos. 3 and 4, April 1947.
- C.47 'Anthelmintics-British Pharmacopoeia', bundle of manuscript research notes so inscribed.
- C.48 3pp typescript list entitled 'Card index'; 4pp manuscript reference notes from bibliographical sources; 4pp draft figure captions and graph readings.

**Publications, lectures and broadcasts**

- C.49                    20pp typescript draft (annotated).
- C.50                    'The use of isotopes in biochemistry', *Science News*, Penguin, 1947.  
19pp typescript draft with corrections.
- C.51, C.52            'Biochemical integration in cellular function', *British Medical Bulletin*, 5, Nos. 4 and 5, 1948.
- C.51                    Correspondence, 7 May-30 June 1947.
- C.52                    11pp typescript draft with table and caption.
- C.53, C.54            'Separation and estimation of saturated C<sub>2</sub>-C<sub>2</sub> fatty acids by buffered partition columns', with V. Moyle and R. Scarisbrick, *Biochemical Journal*, 43, 1948.
- C.53                    2pp typescript draft, incomplete; 21pp typescript draft.
- C.54                    Bundle of graphs and tables.
- C.55                    Obituary notice of Sir Frederick Gowland Hopkins, no bibliographical reference, ca. 1948.  
  
Correspondence, June 1948; 6pp typescript draft.
- C.56                    *Hopkins and biochemistry, 1861-1947* edited by Joseph Needham and Baldwin, W. Heffer & Sons Ltd, 1949.  
  
Memorandum of agreement between editors and W. Heffer & Sons, 11 May 1949.
- C.57                    'A contribution to the physiology and pharmacology of *Ascaris lumbricoides* from the pig', with V. Moyle, *British Journal of Pharmacology and Chemotherapy*, 4, 1949.  
  
15pp typescript draft with captions and table (annotated).

**Publications, lectures and broadcasts**

- C.58 'Comparative biochemistry', *Science Progress*. An essay review of a 1949 translation of *Biochemical Evolution* by Marcel Florkin  
2pp proof with corrections.
- C.59 Book review of *Biochemical Evolution* by M. Florkin, *Archives of Biochemistry*, **28**, 1950.  
1p reprint; 'Arch. Biochem', 2pp typescript so inscribed; 'Science Progress, 1950', 5pp typescript so inscribed.
- C.60, C.61 'The chemistry of muscular contraction' by Baldwin *et al*, *Advancement of Science*, **7**, 1950.
- C.60 10pp typescript draft (annotated).
- C.61 4pp proof with corrections.
- C.62 'The chemistry of muscular contraction', *Nature*, **166**, 1950.  
Correspondence *re* arrangements; 5pp typescript draft; 2pp proof with corrections.
- C.63 'The annelid phosphagen: with a note on phosphagen in Echinodermata and Protochordata' with W.H. Yudkin, *Proceedings of the Royal Society, B*, **136**, 1950.  
5pp captions and tables; three graph reproductions.
- C.64 'The physics and chemistry of muscular activity', no bibliographical reference, *ca.* 1950.  
10pp typescript (annotated).
- C.65 'Some comparative aspects of the biochemistry of fish', *Biochemical Society Symposia* No.6, 1951.  
2pp proof with table and corrections.

**Publications, lectures and broadcasts**

- C.66 'The biochemical approach to biological organization', University College, London. An inaugural lecture delivered on 31 May 1951.  
24pp typescript with annotations relating to its preparation for publication. See C.167, C.168.
- C.67, C.68 'Biochemistry and evolution', *Symposia of the Society for Experimental Biology*, 7, 1953.
- C.67 Letter re correction of proofs, 15 January; 16pp typescript draft (annotated).
- C.68 15pp typescript.
- C.69-C.102 *Cole's Practical Physiological Chemistry* 10th edition revised and re-written by Baldwin and D.J. Bell, W. Heffer & Sons Ltd, 1955. (First edition written in 1904 by Sydney William Cole).
- C.69-C.73 Correspondence re publication, 1951-1966.
- C.69 25 September 1951-19 November 1952.
- C.70 3 February 1953-1 December 1954.
- C.71 8 January-9 December 1955.
- C.72 24 January 1956-23 April 1958. Including memorandum of agreement with W. Heffer & Sons, 12 March 1956.
- C.73 29 April 1959-15 June 1966.
- C.74-C.87 Contents of folder divided into fourteen for ease of reference.
- C.74 Front cover of original folder with inscriptions.



**Publications, lectures and broadcasts**

- C.75 Correspondence, 30 November 1951-8 October 1952.
- C.76-C.84 Draft chapters with annotations:
- C.76, C.77 'Chapter one. Hydrogen ion concentration', 61pp typescript. 2 folders.
- C.78 'Chapter II. Some physical properties of solutions', 20pp typescript.
- C.79 'Chapter III. Reactions of the carbohydrates', 23pp typescript and manuscript draft.
- C.80, C.81 'Chapter four. The proteins', 30pp typescript. 2 folders.
- C.82 'Chapter five. The lipids: fats and associated substances: bile', 12pp typescript and manuscript draft.
- C.83 'Chapter six. The chemistry of some foods', 19pp typescript.
- C.84 'Chapter seven. Digestion and the digestive juices', 18pp typescript.
- C.85-C.87 Typescript and manuscript experimental exercises with annotations. 3 folders.
- C.88 Letter and 4pp incomplete manuscript draft sent to Baldwin by D.J. Bell, 18 May 1953.
- C.89, C.90 'Chapter one. Hydrogen ion concentration', 63pp typescript draft so inscribed. 2 folders.

**Publications, lectures and broadcasts**

- |            |  |
|------------|--|
| C.91-C.102 | Proof with corrections and alterations, divided into twelve for ease of reference.         |
| C.91       | Letter from W. Heffer & Sons, publishers <i>re</i> proofing, 9 October 1954.<br>Chapter 1. |
| C.92       | Chapter 2.   |
| C.93       | Chapter 3.   |
| C.94       | Chapter 4.   |
| C.95       | Chapter 5.   |
| C.96       | Chapter 6.   |
| C.97       | Chapter 7.   |
| C.98       | Chapter 8.   |
| C.99       | Chapter 9.   |
| C.100      | Chapters 10 and 11.  |
| C.101      | Chapter 12.  |
| C.102      | Chapter 13.  |

**Publications, lectures and broadcasts**

- C.103 'Energy changes and chemical cycles', *The Listener*, 57, 1967.  
2pp typescript, cover and published article.
- C.104 Biographical article on Sir Frederick Gowland Hopkins, *Collier's Encyclopedia*, ca. 1960.  
Two letters re publication, 2 November and 16 December 1959. Includes copy of memorandum of agreement with P.F. Collier & Son Corporation, 16 December 1959.
- C.105-C.108 'Booklet on F. Gowland Hopkins for F.J. Lyons Ltd and for Dictionary of Scientific Biography'. Contents of folder so inscribed, divided into four for ease of reference.
- C.105 Correspondence re publication of a small book to commemorate the centenary of the birth of Gowland Hopkins, 28 February-29 August 1961.
- C.106 16pp typescript draft, (?ca. 1961).
- C.107 29pp typescript draft (annotated), (?ca. 1961).
- C.108 Correspondence re publication of an entry on Hopkins in the *Dictionary of Scientific Biography*, 15 February-7 April 1967; 3pp typescript.
- C.109-C.124 *The nature of biochemistry*, Cambridge University Press, 1962.  
See also C.136 for a 1962 memorandum of agreement with the publishers.
- C.109-C.116 'Script Nature Biochemistry'. Contents of folder so inscribed, divided into eight for ease of reference. Manuscript University biochemistry lecture material which Baldwin used as the basis for his book. Throughout Baldwin has carried out alteration and rearrangement. The material has been catalogued in the order in which it was found.
- C.109 'The Nature of Biochemistry. 1st Lect.1. 1966/7', 10pp so inscribed, incorporating pages from *The nature of biochemistry* and *An introduction to comparative biochemistry* (Cambridge University Press, 1937).

**Publications, lectures and broadcasts**

- C.110                    19pp *re* carbohydrates.
- C.111                    3pp *re* polysaccharides.
- C.112                    24pp *re* polysaccharides.
- C.113                    12pp *re* photosynthesis, incorporating a page from *Dynamic aspects of biochemistry*.
- C.114                    31pp *re* muscle biochemistry.
- C.115                    25pp *re* pathways of carbohydrate metabolism.
- C.116                    17pp *re* aerobic and anaerobic metabolism, incorporating a page from *Dynamic aspects of biochemistry*.
- C.117-C.124            'The Nature of Biochemistry. Correspondence and Reviews'. Contents of folder so inscribed, divided into eight for ease of reference. 1961-1969.
- C.117-C.122            Correspondence *re* editions published between 1961 and 1969.
- C.117                    18 April-14 December 1961.
- C.118                    15 January-13 November 1962.
- C.119                    17 January-30 December 1963.
- C.120                    3 February-30 November 1964.
- C.121                    10 November 1965-23 December 1966.

**Publications, lectures and broadcasts**

- C.122                      3 January 1967-3 November 1969
- C.123, C.124              Press reviews of the first and second editions of *The nature of biochemistry*.
- C.123                      1st edition, 1962.
- C.124                      2nd edition, 1967.
- C.125, C.126              Undated drafts.
- C.125                      'Food and nutrition', first chapter and incomplete second chapter of unidentified publication.  
15pp typescript (annotated). n.d.
- C.126                      Tabulated readings. n.d.

**Editorial correspondence**

Arranged alphabetically by publisher or journal title.

- C.127                      Academy of Sciences of the USSR                      1963-1964  
Invitation to write an article for a volume to celebrate the 70th birthday of Academician Alexander Ivanovich Oparin.
- C.128                      *Biochemical Journal*                      1949  
Postcard *re* acceptance of article by V. Moyle for publication; typescript of Moyle's article with acknowledgement to Baldwin.

**Publications, lectures and broadcasts**

- |              |   |           |
|--------------|---|-----------|
| C.129-C.136  | Cambridge University Press  | 1946-1970 |
| C.129-C.133  | Correspondence <i>re</i> various publications.  |           |
| C.129        | April 1946-10 December 1952.  |           |
| C.130        | 17 April 1953-2 October 1957.   |           |
| C.131        | 2 January 1958-5 December 1963.   |           |
| C.132        | 14 January 1964-20 December 1965.   |           |
| C.133        | 7 September 1966-30 April 1970.   |           |
| C.134, C.135 | Press reviews of third and fourth editions of <i>An introduction to comparative biochemistry</i> (Cambridge University Press, 1937).  |           |
| C.134        | 3rd edition, 1949.  |           |
| C.135        | 4th edition, 1964.  |           |
| C.136        | Three memoranda of agreement.<br><i>Introduction to Comparative Biochemistry</i> , 16 July 1936.<br><i>The nature of biochemistry</i> , 1962.<br><i>Dynamic aspects of biochemistry</i> , 5th edition, 25 September 1967. |           |
| C.137        | <i>Chamber's Encyclopedia</i><br>Correspondence <i>re</i> Baldwin's contribution of articles. See C.196.  | 1960-1962 |

**Publications, lectures and broadcasts**

- |              |   |            |
|--------------|---|------------|
| C.138        | Charles C. Thomas Publishers<br>Invitation to write paper.  | 1958       |
| C.139        | <i>Chemical and Process Engineering</i><br>Invitation to join editorial board and write article.  | 1965       |
| C.140, C.141 | Elsevier Publishing Company   | 1955, 1959 |
| C.140        | Letter <i>re</i> proposed article, 28 September 1955.   |            |
| C.141        | Invitation to write article, 1959.  |            |
| C.142        | Oxford University Press<br>Correspondence <i>re</i> invitation to write a book on biochemistry for the Home University Library series.      | 1942-1945  |
| C.143        | Sidgwick and Jackson Ltd.<br>Invitation to write book.  | 1963       |
| C.144        | Simon and Schuster<br>Correspondence <i>re</i> royalties from Baldwin's contribution to <i>What is Science</i> edited by J.R. Newman, 1955. | 1963       |
| C.145        | Technion-Israel Institute of Technology, Haifa<br>Editorial correspondence.   | 1961       |
| C.146        | W. Heffer & Sons Ltd.<br>General correspondence.  | 1951-1966  |





**Publications, lectures and broadcasts**

- C.153                    'Some drugs', Arbury Road Men's Meeting, 18 October 1943.  
12pp typescript.
- C.154                    'Nutritional aspects of symbiosis and parasitism', Trinity [?College,  
Cambridge] Natural Science Society, 29 November 1943.  
9pp manuscript.
- C.155                    'The physical basis of physiological function', Cambridge University Physics  
Society, 19 December 1943.  
8pp typescript.
- C.156                    'Some more about drugs', Arbury Road Men's Meeting, 20 March 1944.  
13pp typescript.
- C.157                    'Chemotherapy', Junior Branch of the Association of Scientific Workers,  
inscribed 'Third version, done 30.iv.44'.  
14pp typescript.
- C.158                    'Methods for the detection and assay of anthelmintic potency', 3rd  
Nematode Conference, Cambridge, 27 July 1944.  
7pp typescript.
- C.159                    'Some aspects of the physiology of *Ascaris lumbricoides*', Society for  
Experimental Biology, Manchester, 28 March 1945.  
6pp typescript.
- C.160                    'Biological energetics', Junior Scientific Club, Oxford, 17 May 1946.  
11pp typescript.

**Publications, lectures and broadcasts**

- C.161 'Nematodes and nematocides', Woods Hole, Massachusetts, USA, July 1948.  
Typescript and manuscript lecture.
- C.162, C.163 No date, *ca.* 1940s.
- C.162 Lecture on enzymes, *ca.* 1940s.  
16pp typescript.
- C.163 'Biochemistry and parasitism', Bedson Lecture, *ca.* 1940s.  
14pp typescript.
- C.164 'Some comparative aspects of biochemistry', inscribed 'Colloquium U.C.', 22 February 1950.  
9pp typescript draft.
- C.165 'The evolution of the vertebrate kidney', Hunterian Society, St. George's Hospital Medical School, London, 17 March 1950.  
15pp typescript draft.
- C.166 'Biological energetics', Chemical and Physical Society, University College, London, 25 April 1950.  
9pp typescript and manuscript draft.
- C.167, C.168 'The biochemical approach to biological organization', Inaugural Lecture, University College, London, 31 May 1950. See C.66.
- C.167 Notice announcing lecture details; typescript and manuscript draft.
- C.168 24pp typescript.

**Publications, lectures and broadcasts**

- C.169 'Chemical evolution', Physiological Society, Chelsea Polytechnic, London, 23 February 1951.  
13pp typescript.
- C.170 'Biochemistry and evolution', Society for Experimental Biology, Symposium on 'Evolution', ca. 1951.  
16pp typescript draft.
- C.171 'Biological energetics', inscribed 'for Imperial College', 26 February 1952.  
8pp typescript.
- C.172, C.173 'Background to biochemistry', Society of Chemical Industry, Nottingham, 3 December 1953.  
16pp typescript. 2 folders.
- C.174, C.175 No date, ca. 1950s.  
  
'Nitrogen excretion in cold-blooded vertebrates' and 'Phosphagen and phylogeny'. Contents of folder so inscribed. These lectures may be connected with Baldwin's tour in the U.S.A. from March 1956 to April 1957 when he lectured on the same topics. See D.14.
- C.174 14pp typescript, 'Nitrogen excretion...'.  
  
C.175 13pp typescript, 'Phosphagen...'.  
  
C.176, C.177 'The evolution of ureogenesis', Sydney Ringer Memorial Lecture, University College Hospital Medical School, London, 29 March 1966.
- C.176 2 notices announcing lecture details; 12pp typescript; original cartoon entitled 'Uncle Ernest'.

### Publications, lectures and broadcasts

- C.177 'The evolution of ureogenesis', 12pp typescript and manuscript draft; 'Evolution of ureotelism in fishes and amphibia', 3pp typescript and 3pp manuscript draft, December 1966.

### Teaching

Lecture material for Baldwin's university biochemistry courses. Similar material can also be found under Publications drafts where it was used as the basis for the writing of his books, see C.4-C.15 and C.109-C.124.

- C.178-C.200 'Class lectures'. Contents of bundle so inscribed, divided into twenty three for ease of reference. University biochemistry course lecture material which has undergone revision and rearrangement over time. No specific date is applicable to the material. The material has been catalogued in the order in which it was found with lecture details or general subject area provided where possible.
- C.178 Letter and 3pp typescript from H.A. Krebs outlining a series of his lectures, 24 October 1936.
- C.179 'EF TClub.II.', 5pp manuscript notes so inscribed.
- C.180 'Lectures on enzymes for biochemistry I 1936. Revised 1937', 31pp manuscript so inscribed.
- C.181 'Biological Activity in relation to Molecular Configuration. 3 lectures for Part I Easter Term, 1941', 8pp typescript and two 11pp manuscript drafts with diagrams.
- C.182 3pp manuscript diagrams illustrating drug chemical structures used in earth worm research.

**Publications, lectures and broadcasts**

- C.183                    3pp manuscript course programme and cover page *re* Part I Biochemistry lectures, Michaelmas 1938.  
  
                              'Metabolism of the mammalian kidney', manuscript lecture draft for Part I Class, Lent Term 1938.
- C.184                    'Report on work on anthelminthics carried out by E. Friedmann (1941)', 9pp typescript.
- C.185                    Series of typescript and manuscript lecture notes *re* marine biochemistry, paginated 1-45, *ca.* 1949/1950.
- C.186                    Series of typescript and manuscript lecture notes *re* proteins, paginated [159]-182.
- C.187                    Series of typescript lecture notes *re* proteins, paginated 183-194.
- C.188                    Series of typescript and manuscript lecture notes *re* digestion of proteins, paginated 195-205.
- C.189                    Series of typescript and manuscript lecture notes *re* general metabolism of amino-acids, paginated 206-262.
- C.190                    Series of manuscript lecture notes *re* the carriage of respiratory gases, paginated 46-80.
- C.191                    Typescript and manuscript lecture notes, first page inscribed 'VIII 1949' and paginated as 105, second page onwards consists of a series of lecture notes *re* ampholytes and proteins and paginated 80-104, final page inscribed '1964/5' and relates to the outline of a forthcoming lecture series.
- C.192                    Series of typescript and manuscript lecture notes *re* biological oxidations and reductions, paginated 86-146.

**Publications, lectures and broadcasts**

- C.193                    10pp manuscript bibliography covering publications over the period 1926-1932.
- C.194                    Typescript drafts of discussion on the activation of amino acids, 4pp, the structure of nucleotides, 9pp, biochemical genetics and nucleic acids and protein synthesis, 6pp.
- C.195                    'Urea in fishes', 18pp manuscript draft lecture.
- C.196                    'Excretion', corrected proof of article for *Chamber's Encyclopedia*, ca. 1961. See C.137.
- C.197                    Lecture introducing basic biochemical issues.  
  
Draft combining manuscript pages and pages extracted from *An introduction to comparative biochemistry* and *Dynamic aspects of biochemistry*.
- C.198                    Typescript and manuscript lecture material *re* lipids and associated substances.
- C.199                    Typescript and manuscript lecture material *re* enzymes, paginated 106-158.
- C.200                    Incomplete typescript draft of unidentified publication *re* metabolism of freshwater organisms, paginated 6-16 and 44-54.
- C.201-C.220            Bundle of papers divided into twenty for ease of reference. Typescript and manuscript University biochemistry course lecture material which has undergone revision and rearrangement over time. No specific date is applicable to the material but there is evidence to suggest that some of the material was used as an aid to the preparation of a publication or publications including *The nature of biochemistry*, (see C.212-C.220). The bundle has been catalogued in the order in which it was found and the general subject areas indicated where possible.
- C.201-C.205            Nitrogen metabolism.  
  
5 folders.

**Publications, lectures and broadcasts**

- C.206 Fat and nitrogen metabolism.
- C.207 General aspects of nutrition, parasitism and symbiosis.
- C.208 Arginine, phosphagen etc.
- C.209 Nitrogen metabolism, guanidine bases and synthesis of trimethylamine oxide.
- C.210 Nitrogen metabolism.
- C.211 Guanidine bases etc.
- C.212-C.220 Lecture material possibly used in preparation of *The nature of biochemistry*.
- C.212-C.218 Drafts.
- C.212 'What is Biochemistry?', 24pp typescript.
- C.213 'One-year Physiology Lectures. I Introductory', 10pp manuscript.
- C.214 'II Respiratory Function of the Blood', 12pp manuscript.
- C.215 'III Proteins', 11pp manuscript.
- C.216 'IV Enzymes', 11pp manuscript.
- C.217 'V Urea Formation', 10pp manuscript.

**Publications, lectures and broadcasts**

- C.218 'Carbohydrates-Chemistry', 6pp manuscript; 'Carbohydrate Foodstuffs', 11pp manuscript.
- C.219 1st and 2nd year biochemistry lecture series programme for 1965-1966, 4pp typescript; lecture material *re* purine bases.
- C.220 Notes *re* carbon transferases.
- C.221 Lecture *re* biochemistry and evolution, 3pp manuscript, n.d.

**Lecture slides**

- C.222 'Oxford Lecture', 5 glass lantern slides, n.d.
- C.223 'Russia 1955', 6 glass lantern slides *re* nitrogenous excretion. See D.10.

**BROADCASTS**

Arranged in chronological order.

- C.224 'Biological organisation', BBC Third Programme, 9pp typescript, transmitted 31 October 1950.
- C.225-C.229 'Science survey: the food we eat' a series of three talks presented by Baldwin on the BBC Home Service in 1955.
- C.225 'Biochemistry at home', Humphry Davy Memorial Lecture, Camborne, 20 May 1955.
- 24pp typescript and manuscript draft lecture with note and two letters *re* adaptation of lecture for Baldwins BBC broadcasts.



### Publications, lectures and broadcasts

- C.226 'The food we eat: how we use it', 8pp typescript of first lecture, transmitted on 7 July 1955.
- 'The food we eat: fuel and spare parts', 8pp typescript of second lecture, transmitted on 21 July 1955.
- C.227 'The food we eat: fuel and spare parts', 6pp typescript draft (annotated).
- C.228 'The food we eat: rats and rations', 8pp typescript of third lecture, transmitted on 28 July 1955.
- C.229 'The food we eat: rats and rations', 7pp typescript draft (annotated).
- C.230 'The chemical basis of life', a series of talks presented by Baldwin on the BBC's 'Third Programme'.
- Correspondence *re* arrangements, 13 November - 6 December 1956; 'Energy changes and chemical cycles', 10pp script for Baldwin's first talk recorded 10 December 1956.

### REPRINTS

- C.231 'Baldwin papers', bound volume of reprints 1932-1951.
- C.232 Bundle of reprints, 1947, 1952-1970.

**SECTION D**

**VISITS AND CONFERENCES**

**D.1-D.81**

The presentation of this section is chronological, covering the period 1948-1965. At D.81 there is material relating to conferences to which Baldwin was invited but did not attend or for which there is no evidence of his attendance.

**1948**

- D.1-D.5                      Visit to the Marine Biological Laboratories, Woods Hole, Massachusetts, USA, June-August 1948.
- Baldwin visited as a Senior Fellow of the Lalor Foundation to research the phosphagen of the invertebrates, in particular the nature of the phosphagen of the Annelida.
- See also B.18, B.19 and B.36 for notebooks and correspondence relating to Baldwin's visit to Woods Hole.
- D.1, D.2                      Correspondence etc. *re* arrangements to work at Woods Hole. 2 folders.
- Includes invitations to visit Harvard, Yale and the Lalor Foundation, Wilmington, Delaware.
- D.3                              Papers *re* Baldwin's application to the Royal Society for a grant to fund the visit.
- D.4                              Papers *re* travel arrangements.
- D.5                              1p manuscript introduction to Baldwin's Lalor Foundation Lecture, n.d.

### Visits and conferences

#### 1949

- D.6-D.8            1st International Congress of Biochemistry, Cambridge, 19-25 August 1949.  
Baldwin was a Joint Honorary Secretary of the Congress. He also served on the Congress Committee and Executive Committee.
- D.6                Printed programme and list of members.
- D.7                Printed abstracts of communications.
- D.8                Printed 'Report of Opening & Concluding Sessions and three lectures delivered to the Congress'.

#### 1952

- D.9                2nd International Congress of Biochemistry, Paris, 21-27 July 1952.  
Baldwin was unable to attend.  
Correspondence *re* arrangements.

#### 1955

- D.10              All-Union Congress of Physiologists and Biochemists, Kiev, USSR, 19-26 May 1955.  
  
Cable inviting Baldwin to attend, 2 April 1955; letter of thanks by Baldwin, 7 June.  
  
See C.223 for glass lecture slides.



**Visits and conferences**

- D.18 List of papers to be presented at the symposium; list of participants, observers and visiting students.
- D.19 15pp typescript of Baldwin's lecture (some annotations).
- D.20 University of Southern California, Los Angeles, *ca.* 3-6 April 1956.  
  
Baldwin was invited to visit and lecture to the Allan Hancock Foundation, University of Southern California. He lectured on 'Phosphagen and Phylogeny'. He also received an invitation to give a seminar to the biochemists in the School of Medicine. It is not clear whether this took place, although it appears that Baldwin gave more than one lecture at the University.  
  
Correspondence *re* arrangements; letters of thanks; etc.
- D.21 University of Wisconsin, Madison, *ca.* 9 April 1956.  
  
Baldwin appears to have given a lecture on 'Phosphagen and Phylogeny'.  
  
Correspondence *re* arrangements etc.
- D.22 University of Illinois, Urbana, 10 April 1956.  
  
Baldwin lectured on 'Nitrogen excretion in cold-blooded vertebrates'.  
  
Correspondence *re* arrangements etc.
- D.23 Harvard University, Massachusetts, *ca.* 12 April 1956.  
  
Baldwin agreed to give a lecture although there is no evidence of the title.  
  
Correspondence *re* arrangements and *re* Baldwin's own research; letters of thanks; etc.
- D.24 Brief correspondence *re* invitation to visit Dr Perlmann's laboratories at the Rockefeller Institute for Medical Research, New York (Baldwin was unable to arrange this).

### Visits and conferences

#### 1956-1957

- D.25-D.55                    Visiting Professorship of Biochemistry, Scripps Institution of Oceanography, La Jolla, California, USA, December 1956-September 1957.
- As Visiting Professor Baldwin had teaching responsibilities and gave a number of lectures. He also visited and lectured at a number of American universities.
- See also B.20-B.27 for research notes from Baldwin's visit to La Jolla.
- D.25-D.43                    'La Jolla 1957. General'. Contents of folder so inscribed, divided into nineteen for ease of reference.
- D.25-D.28                    General correspondence etc. *re* arrangements to take up the position, May-December 1956. 4 folders.
- D.29                            'College'. Contents of bundle so labelled. Correspondence *re* Baldwin's arrangements with University College, London, May-November 1956.
- D.30                            'Cooks'. Contents of bundle so labelled. Correspondence *re* travel arrangements, August-November 1956.
- D.31                            'Wellcome Trust'. Contents of bundle so labelled. Correspondence *re* Baldwin's application for a Wellcome Research Travel Grant, 1956-1957. Includes brief account by Baldwin of his work during the Visiting Professorship, 15 October 1957.
- D.32, D.33                    Symposium on Comparative Biochemistry, Wakulla Springs, Tallahassee, Florida, *ca.* March 1957 (proposed date).
- Baldwin was a member of the planning committee for this proposed symposium, together with S.S. Cohen, K. Dittmer, S.W. Fox and H. Gaffron. He composed a statement of aims and philosophy for use in a grant proposal to the National Science Foundation. There is no indication that the symposium took place.
- D.32                            Correspondence by the committee members *re* the aims and programme of the proposed symposium, May 1956-January 1957.

### Visits and conferences

- D.33                    4pp typescript by Baldwin, 'Symposium on Comparative Biochemistry: Aims and Philosophy'; copy of grant proposal.
- D.34-D.39             Material *re* invitations for Baldwin to lecture at other institutions during his Visiting Professorship.
- D.34                    Visit to Texas, *ca.* 18-25 March 1957.
- Baldwin arranged to give lectures or seminars at Baylor University, Texas Agricultural Experiment Station and the University of Texas in both Austin and Galveston.
- Correspondence *re* arrangements; letters of thanks; etc.
- D.35                    University of Oregon, Eugene, 22-23 April 1957.
- Correspondence *re* arrangements; letters of thanks; etc.
- D.36                    Stanford University, California, 20 May 1957.
- Correspondence *re* arrangements; letters of thanks.
- D.37                    University of California, Berkeley, *ca.* 22-24 May 1957.
- Correspondence *re* arrangements etc.
- D.38                    University of California, Riverside, 6 June 1957.
- Baldwin lectured to the Sigma Xi Club on 'Some aspects of nitrogen metabolism'. It appears he also agreed to talk to a Plant Biochemistry Seminar on the same day.
- Correspondence *re* arrangements; letters of thanks.
- D.39                    Correspondence *re* invitation to give a lecture at Indiana University, Bloomington (Baldwin was unable to arrange this), 1956-1957.

### Visits and conferences

- D.40-D.43            Miscellaneous correspondence sent to Baldwin during his Visiting Professorship or relating to that period.
- D.40                 January-August 1957.
- D.41                 October 1957. Recommendation.
- D.42                 November 1957-April 1958. Includes 4pp typescript letter by Baldwin *re* his views on the conditions and equipment in the Department of Marine Biology at Scripps, 30 April 1958.
- D.43                 September 1959-January 1960.
- D.44-D.55           'La Jolla Lectures Dec/56-Sept/57'. Contents of folder so inscribed, divided into twelve for ease of reference.
- The material consists largely of typescript and manuscript lecture drafts. There are also typescript drafts for publication at D.53-D.55.
- D.44                 'Nitrogen excretion in cold-blooded vertebrates', 14pp typescript lecture (annotated).
- D.45                 'Urea synthesis in elasmobranchs', 11pp manuscript lecture (annotated).
- D.46                 'Some odd problems for biochemists', 14pp typescript lecture (annotated).
- D.47                 'Carbohydrate metabolism', 13pp typescript lecture (annotated - including pencil note on top page 'Next Wednesday 20th Following Wednesday 27th March')
- D.48                 'Origin of modern freshwater and terrestrial faunas', 14pp typescript lecture (annotated).



### Visits and conferences

- D.49 'Phosphagen & phylogeny', 13pp typescript lecture (annotated).
- D.50-D.52 Bundle of manuscript material, largely draft notes for lectures, divided into three for ease of reference.
- D.50 2pp manuscript notes on bibliographical sources.  
  
'Fermentation and Glycolysis', manuscript notes for lecture so entitled, paginated 1-6.
- D.51 'Oxidation of Pyruvate', manuscript notes for lecture so entitled, paginated 1-10 and 5-6.
- D.52 'Biological Energetics', manuscript notes for lecture so entitled, paginated 1-6 with 3pp unpaginated at the end.
- D.53-D.55 Drafts for publication.
- D.53 'Ureogenesis in elasmobranchs', 7pp typescript.
- D.54 'Ureogenesis in elasmobranch fishes', 26pp typescript (annotated) with 1p manuscript graph.
- D.55 'Ureogenesis in elasmobranch fishes', 28pp typescript (annotated).
- 1958**
- D.56 New York Academy of Sciences Conference on Axenic Culture of Invertebrate Metazoa: A Goal, USA, 7-8 April 1958.  
  
Baldwin acted as a Session Chairman.  
  
Correspondence *re* publication of the conference proceedings etc.

### Visits and conferences

- D.57                    15th International Congress of Zoology, London, July 1958.
- Baldwin agreed to act as Chairman for the session on Metabolism, in the Comparative Physiology section.
- Correspondence *re* the invitation to act as a Chairman.
- 1960**
- D.58-D.61            Symposium on the Biochemistry and Pharmacology of Compounds Derived from Marine Organisms, New York, USA, 6-8 April 1960.
- Baldwin acted as a Session Chairman and gave the symposium's concluding lecture 'Comparative marine biochemistry: Some summary remarks'.
- D.58                    Correspondence *re* arrangements, 1959-1960.
- D.59                    Programme (annotated); booklet of pre-printed abstracts (annotated).
- D.60                    12pp manuscript draft of lecture (annotated).
- D.61                    Correspondence *re* publication of the symposium proceedings etc.
- D.62-D.69            Kaiser Foundation Research Institute 2nd Annual Symposium on Comparative Biology, Asilomar, Pacific Grove, California, USA and Kaiser Center, Oakland, California, 6-10 September 1960.
- The symposium programme was entitled 'The Lower Metazoa: Comparative Biology and Phylogeny'. Baldwin presented the opening address of the first session. His lecture was entitled 'Comparative biochemistry and the lower metazoa'. He also intended to visit Los Angeles and La Jolla whilst in California.
- D.62                    Correspondence *re* arrangements. Includes tentative programmes and correspondence *re* Baldwin's health.
- D.63                    Papers *re* Baldwin's application for a Wellcome Research Travel Grant.

### Visits and conferences

- D.64 Programme and list of participants.
- D.65 16pp typescript (annotated) of Baldwin's lecture.
- D.66 4pp manuscript comments by B.G. Chitwood, R.B. Clark, D. Fairbairn and C. Fulton on Baldwin's lecture. Fairbairn's comments include Baldwin's annotated response.
- D.67 Symposium papers.
- D.68 Correspondence *re* publication of symposium proceedings, 1960-1964.
- D.69 17pp typescript of Baldwin's paper for publication.
- 1961**
- D.70-D.77 Visit to Michigan and Indiana, USA, March 1961.  
Baldwin lectured at the University of Michigan, Michigan State University and Indiana University.
- D.70 Correspondence *re* travel arrangements for the visit.
- D.71-D.76 Institute of Science and Technology, University of Michigan, Ann Arbor, 4-8 March 1961.  
Baldwin lectured on 'Biochemistry and Evolution', 7 March. This was part of the Institute of Science and Technology's Lecture Series on The Nature of Biological Diversity.
- D.71 Correspondence *re* arrangements.
- D.72 22pp typescript (annotated) of Baldwin's lecture.

**Visits and conferences**

- D.73 Letters of thanks, including newspaper cutting from *Michigan Daily* re Baldwin's lecture.
- D.74 Correspondence re the publication of Baldwin's paper and other matters arising from the visit.
- D.75 45pp typescript (annotated) of Baldwin's paper for publication; photographs of tables.
- D.76 Michigan State University, East Lansing, 8-9 March 1961.  
  
Baldwin lectured on 'Nitrogen metabolism in cold blooded vertebrates', 8 March.  
  
Correspondence re arrangements; letters of thanks.
- D.77 Indiana University, Bloomington, 9-ca.11 March 1961.  
  
Baldwin lectured on 'Nitrogen metabolism in cold blooded vertebrates', 10 March 1961.  
  
Correspondence re arrangements; letter of thanks.
- 1965**
- D.78-D.80 Rose Morgan Visiting Professorship, Department of Comparative Biochemistry and Physiology, University of Kansas, Lawrence, USA, Spring Semester (January-May) 1965.
- D.78, D.79 Correspondence etc. re arrangements, 1963-1965. 2 folders.
- D.80 Miscellaneous letters relating to the Visiting Professorship, March-June 1965.

### Visits and conferences

#### Invitations

D.81 International Symposium on Enzyme Chemistry, Tokyo and Kyoto, Japan, 16-23 October 1957 (declined).

5th International Congress of Biochemistry, Moscow, USSR, 10-16 August 1961 (response unknown).

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