CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE

under the galaxies of the Royal Sockety's British National Committee for the History of Science, Medicine and Tochnology

Cotologue of the papers of

DONALD DEVEREUX WOODS, FRS.

(1912 - 1964)

Microbiologist

Compiled by: Jeannine Alton

Julia Latham-Jackson

Deposited in the Bodleian Library, Oxford, 1979

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DESCRIPTION OF THE COLLECTION

The material was received from Mrs. A. Woods (widow), and from Woods's colleagues and secretary at Oxford.

The letters from P. Erlich to Sir Poul Fildes (D.1) were received from Miss A. Peorce-Gervis,

The collection includes a full set of Waada's laboratory natebooks for his work in Contridge (1933-99 on bacterial methobalism (8.2 - 8.19), and less complete but still useful material documenting his later research at Oxford on fails acid and B12 (8.27 - 8.33). There is very little correspondence, most of which was destrayed after Wood's dwark in 1964.

Woods is best known for his determining in 1939 of prominabenzoic acid (PAB) as an anti-sulphenilomide factor; this work is documented in C, 15 - C, 17, which assembles the original laboratory notes and after contemporary recerts as they were used by Woods for a historical latence of Oxford in 19(4). See also 32.1

The Collection take includes some meterial relating to <u>Dr. Marlory</u> <u>Stephennon FES</u>, who inspired Woods's interest in blochemistry and upservised his relating to <u>Sir Poul Fildes FES</u>, to whom in 1939 Dr. Stephenson recommended Woods to work at the <u>M.R.C.</u> Unit in Boeterial Chemistry at the Bland-Sutton Initite, <u>Midleskes Hospital</u>, where his works on <u>FAB</u> was contride out. Unfortunetely, none of Fildes 's own papers have been traced, but D. 1 includes three lefters withen to Fildes <u>PPaul Filde</u> in 1912, an Salvanam. These bard commicrotions refer disturbly to the clinical trials of <u>Fildes's new days</u> Solvanam (406) in the transment of sphilis, conducted by Melintoh and Fildes, and subsequent publications and controvery. See D. 1 for onte and reference to the letters.

The help of Dr. M.A. Foster and Dr. M.G. Ord in identifying and describing documents is very gratefully acknowledged. Several of Dr. Foster's descriptions are incorporated, with acknowledgement, in the entries below. Summary of the career of Donald Devereux Woods

| b.1912 | lpswich |
|-----------|---|
| educ. | Northgate School, Ipswich |
| 1930 - 33 | Trinity Hall, Cambridge |
| 1933 - 39 | Research with Dr. Marjory Stephenson at Sir William Dunn School of Biochemistry, University of Cambridge |
| | Work on indole production, and bacterial metabolism |
| 1935 - 39 | Beit Memorial Research Fellow, University of Cambridge |
| 1937 | Ph.D., Combridge |
| 1939 | Married Alison L. Woods (née Halls) |
| 1939 - 40 | Halley-Stewart Research Fellow, Medical Research Council Unit for Bocterial Chemistry (Director: Sir Paul Fildes), Bland-Suttan Institute, Middlesex Haspital |
| | Determination of p-aminobenzole acid (<u>PAB</u>) as anti- sulphanilamide factor |
| 1940 - 45 | Member of scientific staff, Medical Research Council, seconded to Biology Section, Chemical Defence Research Establishment, Ministry of Supply (Parton Down) |
| 1945 | Demonstrator, Department of Biochemistry, University of Oxford |
| 1946 - 55 | Reader in Microbiology, Department of Blochemistry, University of Oxford |
| | Work on folic acid, and metabolism of PA3 |
| 1951 | Guinness Research Fellow, Trinity College, Oxford |
| 1955 - 64 | Iveragh Professor of Chemical Microbiology, Department of Rischemistry, University of Oxford (First Kulder of the Cheir) |

For a more detailed account of Woods's research, see the <u>Memoir</u> by E.F. Gale and P.G. Fildes <u>Giographical Memoin of Fellows of the Royal Society</u>, <u>11</u>, 1945, pp.203-219) a copy of which is included in A.1. Woods's own account of his career and work to date appears in his application for the Whitley Professorship of Blachemiary, Univenity of Cokied, in A.7

SECTION A BIOGRAPHICAL AND PERSONAL A, 1 - A, 13

The material is presented chronologically. It relates principally

to Woods's coreer at Cambridge and Oxford.

A.1 Obituaries, press-cuttings, biographical notes prepared by Woods, photographs.

> A copy of the <u>Memoir</u> of Woods by E.R. Gale and P. Fildes (<u>Biographical Memoirs of Fellows of the Royal Society</u>, <u>11</u>, 1965), is included here.

A.2 Question papers of Natural Sciences Tripos sot by Woods at Combridge 1932.

> Letter (1934) admitting Woods as Research Student under supervision of M. Stephenson from October 1933,

A.3 Application for appointment at Wellcome Physiological Research Laboratories, 1935.

> Includes ms. letter of recommendation from M. Stephenson and Woods's copy of similar letter from F.G. Hopkins.

Postcard from F.G. Hopkins to H.A. Krebs arranging examination of Woods's Doctorate thesis, 1936.

A.4 Beit Memorial Fellowship, 1936-39.

Ms. draft of letter of recommendation for Fellowship by F.G. Hopkins, n.d. [1936].

Letter of election to Fellowship, 1936.

Woods's Reports to the Trustees:

October 1936 - June 1937 June 1937 - June 1938 June 1938 - April 1939

A.5

Application for appointment at Runwell Hospital, 1937.

Includes letters of recommendation from F.C. Hopkins and M. Stephenson.

Postcard from M. Stephenson suggesting Woods should apply for post of lecturer in Agricultural Bacterialogy, Leeds University, 1938.

Biographical and personal

A.6 Woods's notes of 'Speakers invited to take part in Discussion' (probably at meeting of Society for General Microbiology, 1966-47).

> The speakers include Lwoff, Fildes, Chain, Monod, Pontecorvo, etc. See also C.2, C.3,

A.7

A.8

Application for Whitley Professorship of Biochemistry, Oxford University, 1954.

Ms. drafts of application, biographical data, lists of publications, typescript versions as submitted, latter fram E.C. Dadds agreeing to act as referee.

Appointment as first Iveagh Professor of Chemical Microbiology, Oxford University, 1955-64,

Includes: Ms. draft letter to liveagh by Woods on his appointment, 1955.

> Letter from Weagh acknowledging Woods's congratulations on his FRS, 1964.

Mise, charts of personnel in Microbiology Unit shawing its growth, and those last in 'sea of matrimony', 1945-49.

Copy of Architect & Building News, October 1961, featuring the Microbiology Unit, Oxford.

A.9, A.10 Visit to Canada and USA, August-September 1962.

Woods attended the International Microbiological Congress in Montreal (19-26 August 1962) and arranged visits and lectures at various Canadian and US research institutes and universities.

A.9 Schedule of visits.

Correspondence with colleagues arranging visits. In alphabetical order:

| L. Berlinguet | (Quebec) |
|---------------|--|
| J.M. Buchanan | (M.1.T.) |
| B. Dovy | |
| J.O. Lampen | (Rutgers) |
| S.A. Norrod | (Bethesda) |
| D.B. Sprinson | (Columbia) |
| K.V. Thimann | (Harvord) |
| H.J. Vogel | (Rutgers) |
| D.W. Woolley | (Rackefeller Institute, Correspondence Includes information about Woods's recent work on methioning and Run) |

Biographical and personal

| A.10 | Woods's paper read at Montreal, on methionine and B12. | |
|------|---|--|
| | Woods's ms. notes of other papers read, | |
| | Typescript abstracts of papers. | |
| | Slath International Congress of Biochemistry, New York, 1964. | |
| | Travel arrangements, receipts for lectures given in course of visit at other Institutes and Universities in US. | |
| 4,12 | Letter from D.W.W. Henderson, telling Woods he would be elected President of Society for General Microbiology in 1965. | |
| | Correspondence re Leeuwenhoek Lecture which Woods was invited to give to the Royal Society in December 1964. See also 8.35. | |
| | Woods did not live to discharge either of these. | |
| .13 | Misc. items of biographical interest. | |
| | Includes: education certificates; | |
| | receipt for marriage fees, 1939; | |
| | A.R.P. duties, 1940; | |
| | Woods's account book, 1952-64; | |
| | and other items. | |

| SECTION B | LABORATORY | NOTEBOOKS AND WORKING PAPERS | B.1-B.35 |
|-----------|------------|------------------------------|----------|
| | | | |

| B.1, B.2 | Ipswich School | 1926 | |
|-----------|---|---------|--|
| 8.3-8.19 | Cambridge University | 1930-39 | |
| B.20-B.21 | Bland-Sutton Institute, Middlesex Hospital, London | 1939-41 | |
| B.22-B.26 | Chemical Defence Research Establishment, Parton Down | 1942-45 | |
| B.27-B.35 | Oxford University | 1946-64 | |

See also A.4 for Woods's annual Reports on his research to the Trustees of the Beit Fellowships, 1936-39.

8.1

Notebook inscribed 'D.D. Woods 6 B Science, Inorganic Chemistry Theory Notes I, '

Pages numbered by Woods, with notes on chemical properties and experiments, some carefully revised and amended.

8.2 Ipswich School notebook headed 'Organic Analysis'.

 Green loose-leaf notebook, inscribed 'D.D. Woods, Trinity Hall, 4th November 1930'.

> Notes on the literature, summaries of articles, etc., kept up to 1938.

Woods kept detailed bibliographies, usually on large format record cards, throughout his life.

See also B.22-8.26.

B.4 Red notebook.

Work on indole: notes on the literature, of experiments and preparations, of 'Suggested work' for investigation and 'Suggested technique'.

Experiments begin December 1931 (not all are dated) when Woods was still an undergraduate of Cambridge. The last dated experiments are on indole (May 1934) and tryptophane (June 1934) when he had begun graduate work with M. Stephenson. 1926

n.d.

B.5

8.8

Envelope of notes on indole.

Notes on the literature, summaries of articles, etc.

These are not in Wood's hand, and were probably compiled and passed on to him by M. Stephenson when he begon work on indole production. The spalling 'indol', used throughout these notes, is also found in letters and notes by her elsewhere in the collection.

B.6 Dark green notebook.

"Acetic Bug Experiment".

Notes and tables of experiments (not all in Woods's hand), August 1933-October 1934.

B.7 Block notebook.

Work on Clostridium putreficus.

The book includes a letter from P. Fildes to M. Stephenson on the best growth method for CI, putreficus, dated 10, 1, 35,

Woods's notes begin 'Directions for growth from Fildes' and cover 18 experiments beginning February 1935.

At rear of book is another series of 39 experiments, October-December 1935, and a series dated June-July (no year given).

Black notebook.

Work on Spirogenes, especially arnithin (sic), leucine, alanine and other amino-acids.

Cantains notes, tables, comments and calculations on several series of experiments, numbered but only a few dated, March 1935-July 1936.

Pages are numbered, and used to p.152; other notes occur at rear of book.

Loose pages at front of book contain Woods's account of the work in tabulated form with references to page and experiment numbers.

See 8.9 below.

| 8.9 | Correspondence relating to 8.8, originally kept loose in the notebook. | 1935 |
|------------|---|---------|
| | From: L.H. Stickland, on leacine February F.C. Hoppold May P. Fildes, on ornithin and cysteine July | |
| B.10 | Black notebook, inscribed 'Charles E. Clifton' (with some loose pages inserted). | |
| | Work on Clastridium tetanomorphum. | |
| | Notes, calculations and tables of a series of 72 experiments, In the hands of Cliffon, Woods and another. | |
| | Work begins September 1936, and continues to March 1937. | |
| | (Woods published collaborative papers on <u>CI. tetanomorphum</u> with Clifton in 1937 and 1938.) | |
| | Work continues in 8.15, 8.16 below. | |
| B.11, B.12 | 'Studies in the metabolism of bacteria'. | |
| | Woods's thesis for the degree of Doctor of Philosophy at Combridge, October 1936. | |
| 8.11 | Summary, and text of thesis, typescript. | |
| B.12 | Folder inscribed 'Thesis, Section II', Misc. ms, drafts, tables and diagrams. | |
| B.13 | 'Gasametric methods for analysis of blood and other solutions', | |
| | Laboratory preparations book, typescript, 42 pp. n.d. | |
| B.14 | University of Combridge School of Biochemistry. | |
| | Bound volume of typescript guides to experiments, preparations and methods for practical work, Michaelmas, Lent and Easter Terms, 1923-38, with a timetable of practicals and lectures, and those giving them. | |
| B.15-B.18 | 4 ledger-type notebooks, probably a sequence though anly II and III are numbered as such. | |
| B.15 | Notebook, pages numbered 1-286, notes on preparations, and (beginning p.17) a series of experiments on CL retanomorph | 1.JET., |
| | Experiments are numbered 1-78, dated 1 October E19363 - | |

 Notebook II, pages numbered 1-288, notes on manometer and methods, and continuing series of experiments 79-110, dated 16 April-22 October E19373.

> A new series of 46 experiments on <u>C1. welchii</u> begins on p. 128, dated November 1937-June 1938,

At rear of book is a series of 12 undated experiments,

- Notebook III, pages numbered 1-200, notes on manameter volumes, and continuing series of experiments on <u>C1</u>, welchit 47-121, duted June 1930-January 1939.
- B.18 Notebook, pages not numbered, notes an series of experiments '2nd go with amino acids' numbered 122-142, dated January-March [1939].

On 1 April 1939, Woods began work as a Halley-Stewart Research Fellow at the M.R.C. Unit in Bacterial Chemistry under P. Fildes at the Bland-Sutton Institute, Middlesex Hospital, London.

See also 8.20, C.16.

Ms. notes, drafts, summary of experiments, graphs of findings on C1, welchii.

N.d. but probably for paper published 1938 'The relation of nitrate to ammonia in C1. welchil', though work may continue to later research, 1942.

8.20 Loose-leaf binder, inscribed 'This binder is the personal property of D.D. Woods, May 1939. Sland-Sutton Institute (MRC Dept. Bacterial Chemistry), Middlesex Hospital W. 1.'

> Woods left Cambridge in April 1939 to work with Fildes at the above Unit. It was here that he did his important work on p-aminobenzoic acid (PAS), see C.16.

The binder contains notes on the literature, begun soon after Woods's arrival in London and kept up to c.1945.

B.19

B.21

Large loose-leaf binder, with some loose pages, containing details of experiments on various inhibitars of microorganisms, April 1939-February 1941.

Though several entries refer to p-aminobenzoic acid, an which Waads continued to wark until early 1940, these experiments much the conclusion of his work on PAB and the start of his 'war work' - began in London and Tater carried on at Parton. Nost of the entries beer a War Office number as well as a date and description.

Included on a loose page is Woods's tabulated information on the dates on which experiments were carried out.

The entry for Biotin (5.8.40.) is interesting in boing accompanied by correspondence requesting and accompanying samples from J. Williams (Texas) and J.R. Parter (Iowa), July 1940.

Woods' ms. draft of his letter to J. Williams exploits that; 'I have under way an investigation into the conditions of maximum and consistent production of toxin by oneerobes such as tetrorus and wolchil. Under present war conditions such as tetrorus and wolchil. Under present war conditions such as tetrorus and wolchil. Under present work on point of view of antitoxin production for use in wound infections'.

Loose-leaf binder, inscribed 'D.D. Woods, Porton, Salisbury, May 1942",

Mainly notes on the literature; includes 4 pp. ms. note on metabolism, perhaps for paper or lecture by Woods.

8.23-8.26 Work on penicillin, 1944-45

3 losse-loaf binders and one folder, all of similar miscellaneous content and roughly similar date. All deal with research by Woods using staphylococcus in order to test modes of action of penicillin, and penicillin resistance.

All the books contain notes on the literature, some carefully indexed by topic as well as by name, notes of conversations, visits to laboratories, sources of specimens, progress of research, etc.

Attention is drawn to motters of special interest, or datable material in each back, but it is not possible to give a full account of their contents and it should be emphasised that they form part of a single project and should be considered as a whole.

B.23 Green loose-loaf binder.

Mainly notes on the literature of penicillin (latest references 1945), but also includes the following ms. notes by Woods:

'Present position regarding structure penicillin', 3 pp. dated February 20, 1944, and marked 'Private Common. (Various sources)'. Includes a page of '?'s for Oxford', probably for a visit (see 8.24).

"Penicillinase and the mode of action of penicillin, Some hypothetical possibilities", 9 pp. dated 13 June 1944,

'Penicillin Project'. Notes an various aspects of project, 4 pp. dated 17 July 1944.

'Penicillin Research [Enzyme blockage theory]'. 9 pp. dated 21 July 1944.

8.24 Green loose-loof binder.

Misc. notes of varying date and content, not grouped in any chronological or subject order.

Material includes:

'Notes an visit to Florey et al, Oxford 12.7.44.' with information on panicillin given by H.W.F. (Howard Florey, later Lord Florey), N.G.H. (Heatley), M.A.J. (Margaret Jenning, later Lady Florey), E.C. (Ernst Chain).

These are probably the answers to '?'s for Oxford' in B.23 above.

'Notes on conversation with Harington and King, 5th July 1944'.

6 numbered pages.

continued

8.25

Laboratory notebooks and working papers

B.24 continued

'Queries for visit to Porton, November 1st', perhaps 1941.

Notes an teaching and equipment, perhaps for Woods's move to Oxford on his appointment as Reader in Microbiology in 1946.

At rear of book is a full index on the literature of Chamotherapy, especially action of sulphonomides and p-aminobenzoic acid (to 1946).

Large green loose-leaf binder (rear board missing).

Indexed by Woods under 14 headings.

This gives the clearest account of various strains of stophylacoccus used by Woods for his project, the sources of supply, experiments and results.

Dating runs July 1944-March 1945.

B.26 Folder of notes and diagrams, 1945.

Ms. account 'Penicillin work - Summary 12/4/45', with 18 graphs, tables and diagrams.

8.27-8.35 Oxford University, 1946-64.

Wood's work at Deford, as Reader in Microbiology 1946-55 and Iwagh Professor of Chemical Microbiology 1955-64, continued on the matchain of PAB, the synthesis of folic acid, the relation of folic acid and vitamin $\overline{\mathbb{B}}_{12}$ and related research, much of it callaborative.

The following notebooks are a portial record of this work.

Some of the descriptions and information below were received from Dr. M.A. Foster, and are acknowledged in the relevant entries,

B.27

Large green loose-leaf binder.

Notes on preparations, growth methods, experiments and results on faile acid, various dates 1946-49.

The contents are described by Dr. Faster as work on: "Folic acid (and related compounds) as a growth factor and anti-subpharamide agent for a wide variety of microbes. EClastrialo, E. coll., Acetabacter, Neurosporn, Streptococi and some others].

The work is in the hand of Woods and some others.

Note The laboratory notes are preceded by 4 pp. of notes on escays of $\$_12$ relevant to Woods's work from c. 1954. They have been left bound in as found, but do not relate to the rest of the book.

B.28 Large green loose-leaf binder (inscribed 'Bland-Sutton Institute, Middlesex Hospital').

> Notes on experiments and results, in the hand of Woods and others, various dates 1949-54.

Several sets of pages, dealing with a specific medium, are aligned together with a note by Woods.

The contents are described by Dr. Foster as: "Very detailed analysis of growth of Clastridium tetanomorphum in fully defined media. C? attempting to establish optimum conditions for using this organism for assaying folic acid derivatives]."

B.29 Folder of notes, diagrams and tables, 1949.

By Woods, and by C. Duff, a visitor collaborating briefly with Woods, mainly research for evidence of a co-enzyme required for serine metabolism in <u>C1. welchii</u>. (Information from Dr. Faster.)

A letter from C. Duff, on the work and on his results, is included.

B.30 Folder of notes, In the hand of Woods and others, various dates 1950–51.

The material is described by Dr. Faster as: 'Sheets removed from a bench notebook and clipped together on the basis of which organism was being studied.

Early experiments on growth-prenoting activity of folinic acid for Stoph, oursen, it. coil and 'yearl', followed by examination of compounds (e.g. purines, serine) which might replace the growth requirement for folinic acid of Neurospore, Acetobacter suboxydany, F., coll, Leucanastae mesenteroides and Lactobactilus ploretami".

- B.31,B.32 2 folders of notes on creatine.
- B.31 Details and results of experiments on exidation of creatine by <u>Pseudomanos eisenbergii</u>. Bundles of notes allipped together by Woods have been retained as found. Various dates mainly March-June 1950.
- 8.32 Details of experiments and results on the oxidation of creatine and sarcosine. Various dates, mainly February-June 1956.
- B.33 Large green loose-leaf binder.

Notes of experiments and results, in the hand of Woods and others, various dates 1952-54.

Bundles of notes clipped together by Woods have been retained as found.

The contents fall into two sections, described by Dr. Foster as follows:

Collated experiments on a pAB-requiring mutant of <u>Soccharomyces</u> cerevisiae.

- Interactions between components of defined growth media such as to depress growth. Deals mainly with vitamin/ purine interactions such as the "adenine-nicatinic" acid entagonism.
- II: Growth in defined media, apparently attempting to define those compounds which reversed the inhibitory action of sulphanilamide on the mutant, to gain same insight into likely metabolic roles of folic actid."

B.34 Folder of notes.

The notes, on pages removed from a loose-leaf binder, record titration curves for <u>PAB</u> under a variety of conditions and with different organisms.

The notes are in the hands of Woods and others, various dates February-March 1954.

8.35 Block loose-leaf binder.

Notes and ideas, some intended for the Leeuwenhoek Lecture of the Royal Society, which Woods had been invited to deliver in December 1964, but did not live to complete. 1964

See also A.12.

SECTION C SCIENTIFIC LECTURES AND PAPERS 1946-62 C.1 - C.17

The material is presented chronologically as far as possible. Not all the lectures are dated, and Wach frequently re-ardreed his notes to incorporate new material or for delivery an different occulars. There are sametimes several series of numbers on each sheet, in various colours of enyon, in addition to (partial) sequential page numbers. The presentation is therefore treative.

Except when otherwise stated, all items are autograph ms., In pencil.

Attention is drawn especially to C.15-C.17, Woods's semiautobiographical account of his discovery of PAB.

| C.1 | Book review, n.d., c.1938. |
|----------|--|
| | 'Medical Consilia Talk', 27 November 1946. |
| C.2, C.3 | 'S.G.M. Oxford', 19-20 September 1947. Esoclety for General Microbiology 3 |
| | See also A.6. |
| C.2 | Intraductory survey on 'Amino-ocids in the Economy of Micro-organisms'. 4 pp. typescript. |
| C.3 | Talk by Woods and Nimmo-Smith on 'p-AB and Folic acid derivatives in relation to bacterial growth and sulphonamide action'. 4 pp. typescript and ms. |
| C.4 | Lectures for 'Hons. Physiol, and Chemists 1947'. 22 numbered pages. |
| C.5 | 'Blochemistry of Micro-organisms 1947'. |
| | An extended course of lectures, of which 1=5, 10=15 survive. |
| C.6 | Lectures for 'Hons. Physiol, and Chemists 1948', 33 numbered pages. |
| C.7 | Extensive bundles of lecture notes, labelled by Woods 'Pre 1952'. |
| C.8 | 2 lectures on Chemotheropy, n.d. |
| C.9 | 2 lectures on Immunology, n.d. |

Scientific lectures and papers

| C.10 | Lecture on Streptomycin, n.d. |
|-----------|--|
| C.11 | Lectures on 'Heteratrophic energy yielding mechanisms', n.d. (Lectures 1, 6 and 7 of a course.) |
| C.12 | 5 lectures labelled 'Summer School', n.d. |
| | On Natural Antibiotics, Ocidative Mechanisms II, Bacterial Metabolism, Biological Nitrogen Fixation, Autotrophic Bacteria. |
| C.13 | Notes for an advanced lecture course on microbiology, c.1952~53. |
| | Refers to important classical experiments by McCarty et al c. 1944 - the first report on Transformation - and analysis their results. |
| C.14 | Notes for a lecture on B12, n.d. |
| | Included here are 3 pp. ms. "Research Suggestion" for lines of enquiry on B12. |
| C.15-C.17 | "The biochemical mode of action of the sulphonamide drugs". |
| | This was a lecture delivered in Oxford, 17 May 1961 in a series on "Case histories in biological discovery" and published in J. gen. Microbiol.(1962), 29, 687-702. |
| | The lecture included mainlicences of Wood's early conver and the Influence on him of Dr. M. Stephenson's broadcast talk on Bischemistry which he heard as a schoolboy. When areparing his lecture, Wood obtained a transcript of the talk, which is included here ac C.17. |
| C. 15 | Natice of lecture, plan and 27 pp. ms. draft, set of plates and figures, copy of published version. Includes a photograph of Fildes. |
| C.16 | Woods's original laboratory notes made 1939 for his work on PAB, probably originally included in B.21, 14 and 15 December 1939. |
| | Included here is material related to the meeting of the Bio- chemical Society in February 1940 at which Waads and Fildes presented their findings on PAB. |
| | The material is accompanied by an explanatory letter from A, Peorce-Gervis (Woods's Secretary), 1965. |

Scientific lectures and popers

C. 17 'Biochemistry: what it is and what it does'. Trenscript of talk broadcast on 9 May 1930 by M. Stephenson, (See C. 15 above.)

SECTION D CORRESPONDENCE D.1 - D.2

Much of Woods's correspondence was destroyed periodically by him during his lifetime, and more was destroyed ofter his death. The following items, and a few letters included and nated elsewhere in the collection, are all that remain.

D.1

C.E. Clifton n.d.

P. Fildes

2 short notes, on a paper (1938) and answering Woods's congratulations on Fildes's Copley Medal, 1953

Included here are three letters (in German) to Fildes from P. Erlich, 1912:

June, enquiry about approximate number of patients treated by Fildes with Neosalvarsan;

December (2 letters), request to include collaborative paper on Salversan (by Fildes, McIntash and Dearden) in a volume of articles an Salvarsan, and thanks for permission received.

For a short account of Filder's and McInitah's clinical Irids for the displayed of Erich's new days Solvama ($600_{\rm i}$ in the treatment of syphilis, and ubsequent controveny, see the <u>Memoir</u> by G.P. Clocktone, B.C.J. G. Knight and SiT Conham William (<u>Biographical Memoirs of Fellows of the Royal Society</u>, <u>19</u>, 1973, <u>pp.317-347</u>, <u>especially pp.327-524</u>).

These letters were received fram A. Pearce-Gervis (Woods's Secretary), who had preserved them fram Fildes's period of research in Oxford 1949-64.

M. Flavin

1962

H.A. Krebs

M. Stephenson

Miscellaneous items including:

Letter to M. Stephenson from P.H.H. Gray on tryptophan, 1940.

3 letters to Woods on setting up microbiology unit in Combridge (1946) and on publications and journols (1947).

Copy of a talk by M. Stephanion on 'Levels of Microbiological Investigation', probably given to Society for General Microbiology.

INDEX OF CORRESPONDENTS

| BERLINGUET, Louis | A.9 |
|--|-----------------------------------|
| BUCHANAN, John M. | A.9 |
| CLIFTON, Charles Egolf | D.1 |
| DAVIS, Bernie | A.9 |
| DODDS, Sir (Edward) Charles | A.7 |
| DUFF, Cecli | B.29 |
| ERLICH, Poul | D.1 |
| FILDES, Sir Poul (Gordon) | 8.7, 8.9, D.1 |
| FLAVIN, Montin | D.1 |
| HAPPOLD, Frank Charles | 8.9 |
| HENDERSON, David Willis Wilson | A.12 |
| HOPKINS, Sir Frederick Gowland | A.3-A.5 |
| IVEAGH, Rupert Edward Cecil Lee Guinness, Earl Iveagh | A.8 |
| KREBS, Sir Hans (Adolf) | D.1 |
| LAMPEN, J. O. | A.9 |
| MORGAN, Walter Thomas James | A.12 |
| NARROD, Stuart A. | A.9 |
| PORTER, J. R. | 8.20 |
| SPRINSON, David B. | A.9 |
| STEPHENSON, Marjory | A.5, D.2. See also A.3, B.5, C.17 |
| STICKLAND, Leonard Hubert | B.9 |
| THIMANN, Kenneth V. | A.9 |
| VOGEL, Henry J. | A.9 |
| WOOLLEY, D. Wayne | A.9 |
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