

CONTEMPORARY SCIENTIFIC ARCHIVES CENTRE

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REPORT ON THE PAPERS OF

Dr. Edward Hindle, F.R.S.

(1886-1973)

Compiled by: Jeannine Alton

Harriot Weiskittel

Deposited in the Archives of the University of Glasgow
1978

DESCRIPTION OF THE COLLECTION

The material was received from Miss Phyllis Barclay-Smith, C.B.E. Many of the items are in poor and fragile condition.

The collection covers most aspects of Hindle's scientific career, and includes some information not elsewhere recorded, such as the proposed expedition to Uganda and Nyasaland in September 1914 (see B.5-B.9) and Hindle's reported death in Africa (see A.2); the box of publications (C.55), though not complete, contains several items not recorded either in the Bibliography of the Royal Society Memoir (A.1) or the 'List of Publications' (A.2), and, in conjunction with Section C, gives a fuller picture of Hindle's scientific and general writings than would otherwise obtain. Hindle's friendly relations with G.H.F. Nuttall, J. Loeb, J.E. Marchoux and other colleagues are also clear (see under Index of correspondents), and his attempt to improve international understanding by means of the proposed publication 'One World' can be seen in B.102-B.106.

Section B (scientific research and activities) is the largest in the collection, and includes scientific material (laboratory notebooks, professional correspondence) and some biographical and administrative correspondence relating to appointments, tenure and the like. The major fields of Hindle's work are fully covered, notably his work on kala-azar, yellow fever and other viruses, and the incident of laboratory infection which affected him, his assistants, and hospital staff attending them. In addition, there is evidence of what has been described by the author of the Royal Society Memoir, Professor P.C.C. Garnham, F.R.S., as his 'eclecticism and opportunism in science, in that the nature of his research was governed by the conditions in which he happened to be living at the time'; an example of this might be his observations at Dax on the fauna of hot springs (see B.81, B.90) and his interest in hamsters (see B.37, B.93-B.100). Much of Hindle's surviving scientific correspondence is included in Section B; Section D (Correspondence) is in consequence relatively brief.

Very few records survive relating to Hindle's many honorary posts in Associations and Societies, and the interest he took in such activities, both professional and non-professional. A list of some of these is given in the Royal Society Memoir, and the 'Honours and Awards' listed in A.24-A.30 also provide some indication of the wide range of Hindle's interests.

See also A.31

SUMMARY OF THE CAREER OF EDWARD HINDLE

b. 1886	Sheffield.
educ.	mainly at home, by his mother, who was a certificated teacher.
1903-07	Royal College of Science, and King's College, London.
1907-08	Research Assistant, School of Tropical Medicine, Liverpool.
1908-10	work at Marine Biological Station, La Jolla, California. Ph.D., and Instructor in Zoology, University of California, Berkeley.
1910-14	Kingsley Bye Fellow, Magdalene College, Cambridge, and Beit Memorial Research Fellow, Quick Laboratory, Cambridge.
1911 (summer)	Institut Pasteur, Paris.
1914-19	War Service with Royal Engineers Signals Service; served as a Divisional Signal Officer, in France and Palestine, except for six months when sent back to England to organise and command the Signal Service Cadet Unit.
1919	(February-October) work at Quick Laboratory, Cambridge.
1919	married Irene Margaret Twist (d. 1933).
1919-24	Professor of Biology and Parasitology, School of Medicine, Cairo.
1924-25	Milner Research Fellow, London School of Hygiene and Tropical Medicine.
1925-28	with Royal Society's Kala-azar Commission in China.
1928-33	Beit Research Fellow in Tropical Medicine, Wellcome Bureau of Scientific Research, London.
1934	work at National Institute of Medical Research, London.
1935-44	Regius Professor of Zoology, University of Glasgow.
1936	married Ellen Mary Theodora Boyen (nee Schroeder) (marriage dissolved 1951).
1936	Founder President, Zoological Society of Glasgow.
1942	Elected Fellow of the Royal Society.
1944-51	Scientific Director, Zoological Society of London.
1945	Freeman of the City of London.
1946-51	General Secretary, British Association.
1947	President, Section D, British Association.
1951-52	Founder and First President, Institute of Biology.
1951-61	Hon. Secretary, Royal Geographical Association (Hon. Vice-President, 1962).
1953	President, Zoology Section, International Union of Biological Sciences.

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Section A	Biographical and Personal	A.1-A.31	4
Section B	Scientific research and activities including: Work on <u>Pediculus Humanus</u> Work at Cairo Royal Society Kala-azar Commission Work on Yellow Fever Hamsters	B.1-B.108 B.10-B.16 B.18-B.27 B.31-B.54 B.19, B.30, B.55-B.71 B.93-B.100	10
Section C	Lectures, talks, broadcasts, publications	C.1-C.55	26
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SECTION A

BIOGRAPHICAL AND PERSONAL

- A.1. Obituaries and tributes.
Includes Addresses at Cremation and Memorial Service;
Memoir by P.C.C. Garnham, F.R.S. (Biog. Mem. Fellows of the Roy. Soc., 20, 1974);
and others.
- A.2. Bibliographies, c.v.'s and biographical notes prepared at various times by Hindle, or by others for the award of honours or degrees; includes Hindle's birth certificate, and a press-cutting of a note by G.H.F. Nuttall correcting 'the erroneous statement that Dr. E. Hindle met his death in Africa', 1915.
- A.3. Signed photographs of G.H.F. Nuttall and colleagues, one inscribed 'Taken at Alperton, Essex, June 1909', the other n.d. but taken at Cambridge (Hindle is standing L.).
- A.4. Miscellaneous material relating to Hindle's military activities. Includes Commissions in R.E. 1914 and in Territorial Army 1936, miscellaneous photographs of O.T.C., University of Glasgow of which Hindle was Commanding Officer in Second World War.
Also includes copy of Hindle's letter to The Times 11/1/43 on National Service in Universities, and a private reply received describing Cambridge in wartime.
- A.5. Miscellaneous testimonials to Hindle 1912.
from William E. Ritter (La Jolla, California)
Jacques Loeb (Rockefeller Inst. Med. Res.)
J.E. Marchoux (Institut Pasteur)
J. Mesnil (Institut Pasteur)

- A.6.-A.8. Correspondence re Chair of Biology, School of Medicine, Cairo, 1919-24 and 1951

Hindle resigned this post, with indemnity and repatriation, because political and administrative changes were impeding his current work and his personal and scientific prospects.

See B.18-B.27 for notebooks relating to research during his period at Cairo and C.2-C.4 for lectures given there.

- A.6 Folder of correspondence with British and Egyptian authorities re Hindle's wish to relinquish his chair, conditions of compensation, etc. October 1923-June 1924.

- A.7 Passport, photographs, miscellaneous scientific and social souvenirs of period in Cairo.

- A.8 Brief correspondence, letters of congratulation on appointment, and testimonial to work done in Cairo, from Jacques Loeb
Owen Richards

Included here is a letter regretting Hindle's decision not to apply for the Chair of Zoology at Cairo in 1950, on his retirement from the Zoological Society of London.

- A.9. Miscellaneous correspondence on appointments 1932-34, re various applications for appointments made by Hindle as his tenure of the Beit Fellowship 1928-33 drew to a close (see B.55).

Includes: testimonials to Hindle for Chair of Zoology, Newcastle, from P. Chalmers Mitchell [Sir Peter Chalmers Mitchell, see C.33] and G.H.F. Nuttall (very fragile and in poor condition) 1932;

Hindle's application for Chair in Parasitology, Peiping 1933;

Hindle's memorandum to H.T. Tizard on Dept. Zoology, Imperial College, London 1934.

- A.10. Correspondence re appointment as Regius Professor of Zoology, University of Glasgow 1935.

Hindle's letter of application, testimonials from G.H.F. Nuttall (copy) and H.H. Dale (original).

For other documents relating to Hindle's appointment and activities at Glasgow see A.21, A.28, A.29; for research conducted at Glasgow see B.87-B.89, and for lectures and talks at Glasgow see C.10-C.23.

- A.11. Letters of congratulation on election to Royal Society 1942
(not itemised or indexed).
- A.12.-A.16. Correspondence re appointment as Scientific Director,
Zoological Society of London
- A.12. Correspondence re appointment, with Sheffield A. Neave
(Secretary of the Society), including Hindle's c.v. and
list of publications, and re his resignation of the Regius
Professorship at Glasgow, August 1943-January 1944.
- A.13. Brief correspondence with Julian Huxley (Secretary of
Society 1935-42) re appointment, and enclosing off-
prints, 1943.
- A.14. Correspondence re membership and other matters, 1943.
with P.A. Buxton, L. Hogben.
- A.15. Letters of congratulation on appointment, with some
personal or scientific interest in the letter or in
Hindle's reply, 1943.
- A.16. Letters of congratulation on appointment, many
testifying to the range of Hindle's activities in
Glasgow and expressing regret at his departure
(not indexed), 1943.
- A.17. Visit to Pakistan, April 1950
- Hindle represented the British Association at the Second
Pakistan Science Conference, Karachi, and visited
other laboratories and scientific establishments during
visit.
- Brief correspondence re journey, letters of intro-
duction from Sir Harold Hartley (then President of
the British Association), ms. of talk broadcast on
Radio Pakistan by Hindle, press-cuttings.
- A.18. Visit to Switzerland 11-24 June 1961
- This was the first official delegation of the Royal Society
to visit Switzerland, arranged by invitation of
Pro Helvetic Foundation.
- Annotated schedule of visit, brief correspondence re
travel, etc., copy of Hindle's Report to President
of the Royal Society on visit, ms. draft of another
report.

- A.19.-A.23. Miscellaneous items of personal and biographical interest.
- A.19. Envelope of press-cuttings relating to Hindle's work, career, interests, etc.
- A.20. Envelope of press-cuttings from 'Moscow News' relating specially to work of Lysenko, Michurin and other reported achievements in Russian biological sciences.
- A.21. Miscellaneous social souvenirs (not itemised).
Includes signed menus, Madgalene College, Cambridge dinners, University of Glasgow Final Year Dinners in the Faculty of Medicine 1938, 1939, 1940, 1941, 1942, 1943, The Athenaeum, The Wrong Box Dinner (menu and papers read) 1963.
- A.22. Birthday and other greetings exchanged with Sir Ralph Richardson at various dates, and miscellaneous quotations and notes collected by Hindle, probably for anniversary gatherings.
- A.23. Miscellaneous shorter personal correspondence, letters of congratulation on research, farewell letters on retirement, etc. (not indexed).
- A.24.-A.30. Certificates, Honours and Awards, in chronological order. (academic, personal and honorific)
6 folders as follows:
- A.24. 1905 Matriculation Certificate, University of London
1905-06 Associate Certificate, Royal College of Science, London
1908 Intermediate Certificate, University of London
1909 Membership Sigma χ i, California
1910 Doctorate Philosophy, University of California
- A.25. Roll of miscellaneous Masonic certificates 1912-14.

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|-------|------|--|
| A.26. | 1912 | Dissertation distinction certificate, University of Cambridge |
| | 1913 | Automobile Association, vehicle and driving certificate, Racing-Club de France, Touring Club Italiano membership cards |
| | 1917 | M.A., University of Cambridge (certificate dated 1919) |
| | 1919 | Alma Mater Lodge (resignation on taking up post at Cairo) |
| | 1919 | Membership certificate, Société entomologique d'Egypte |
| A.27. | 1920 | Membre correspondant, Société de pathologie exotique |
| | 1929 | D.Sc., University of Cambridge |
| | 1931 | Croix Civique, Première Classe, Belgium
Société belge de Médecine Tropicale, Membre correspondant |
| | 1931 | Fellow, Royal Microscopical Society |
| | 1934 | Member, Company of Veteran Motorists |
| | 1935 | Member, The Athenaeum |
| | 1935 | The Carnarvon Lodge (resignation on moving to Glasgow) |
| A.28. | 1935 | Commission as Regius Professor of Zoology, University of Glasgow |
| | 1935 | Member, Royal Philosophical Society, Glasgow
(includes correspondence, programmes, etc.) |
| | 1935 | Fellow, Royal Entomological Society, London
(includes correspondence) |
| | 1936 | Member, British Film Institute |
| | 1936 | Member, Société zoologique de France |
| | 1936 | Fellow, The Eugenics Society |

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|-------|---|---|------|
| A.29. | 1936 | Hon. President, City of Glasgow Ornithological Association (includes correspondence) | |
| | 1936 | Member, Scottish Wild Birds Sanctuaries Trust | |
| | 1936 | Member, Adam Smith Club | |
| | 1936 | (Dec.). Letter from Viscount Mountmorres re founding of Glasgow Zoological Society, of which Hindle was Founder President | |
| | 1937 | Council, Zoological Society of Scotland | |
| | 1939 | Matriculation as Member, the Merchants House of Glasgow | |
| A.30. | 1942 | Fellow, Royal Society, London | |
| | 1944 | Freedom and Livery, Worshipful Company of Farriers of London | |
| | 1945 | Freedom of the City of London (copy) | |
| | 1957 | Hon. Fellow, Imperial College, London | |
| | 1960 | Darwin Medallion of USSR | |
| A.31. | Miscellaneous items of biographical interest. Includes: | | |
| | | 4 photographs of Hindle, his colleagues, laboratory and lecture-room at Cairo | |
| | | Hindle's Royal Society Personal Record book | |
| | | Signed menu of luncheon given by Scientific Advisory Committee to Hindle and Sir Robert Robinson on the occasion of their 80th birthdays (with photographs) | 1966 |
| | | Photograph of Hindle's 85th birthday cake, specially made with models of his various interests and achievements | 1971 |
| | | Note from Royal Geographical Society describing the location of the 'Hindle Glacier' in the Antarctic, named after Hindle by Duncan Carse during his surveys of South Georgia 1951-57 | 1974 |

SECTION B

SCIENTIFIC RESEARCH AND ACTIVITIES

The material is presented chronologically as far as possible, and includes laboratory notebooks and records, and related correspondence including some biographical information on appointments, etc. It is linked where possible to the various stages and places of work of Hindle's career.

B.1., B.2.

2 sketchbooks of drawings of various marine species, molluscs and parasites, one inscribed '1905. R.C.S.' [Royal College of Science].

The drawings are in pencil, ink and colour, carefully labelled.

B.3.

Black notebook, inscribed 'Quick Laboratory Cambridge. Spirochaetes'.

Notes of transmission experiments of *Spirochaeta duttoni* (now known as *Borrellia duttoni*) 1910-11;

at rear of book, notes of experiments on transmission of *Sarcosporidia* 1910, followed by notes on *Argas persicus* raising experiments 1912 (see also B.17.).

B.4.

'Notes on the emergence of the sexes from the galls of *Teras terminalis*'.

A notebook in which Hindle copied the original observations of Thomas B. Goodall, covering 58 collections made by Goodall in June 1900, and brief notes for 1904 and 1908.

2 letters from Goodall, 1914.

B.5.-B.9. Proposed expedition to Uganda and Nyasaland 1914

Correspondence and papers.

The expedition was scheduled for September 1914 and was cancelled on the outbreak of the First World War.

Its purpose was to undertake research into the effects of dipping solutions and methods on cattle exposed to infection by cattle Trypanosomiasis (see B.7. for a detailed exposé of the project). It was to be a joint venture of the Quick Laboratory, Cambridge, and the Cooper Laboratory for Economic Research, Watford, financial support being provided by a grant from the Colonial Office to Professor G.H.F. Nuttall (Director of the Quick Laboratory), by a personal grant from P.A. Molteno, and by the Cooper Laboratory. Hindle was to be Nuttall's Assistant in the field.

B.5. Correspondence March-August 1914.

Correspondence exchanged by G.H.F. Nuttall with H.J. Read (Colonial Office) re grant from Tropical Diseases Research Fund and outline of project, with P.A. Molteno re his financial support of the project (3 letters), with W.F. Cooper (of Cooper Laboratory).

Also includes correspondence re facilities for expedition, letters of introduction.

B.6. Correspondence August-September 1914.

Hindle's correspondence with directors and staff of the Cooper Laboratory re the project, and his letters arranging to postpone expedition 'until the conclusion of Peace'.

B.7. 'Draft scheme of Trypanosomiasis work in Uganda'.

9 pp. typescript account, no date or signature, prepared after meeting between Nuttall, Cooper and Robinson, May 1914; gives a detailed account of the projected work, with itemised budget.

W.F.C. = W.F. Cooper

L.E.R. = L.E. Robinson (of the Cooper Laboratory)

B.8. Hindle's itemised budget for the expedition, including fares, stores, portage and servants, camp and safari equipment, etc. 'A dinner jacket and sometimes a tail coat' were thought to be necessary.

B.9. Correspondence and printed matter from tropical and overseas outfitters and suppliers for the expedition, including several leaflets and brochures from Lawn and Adler which provide interesting information on currently available equipment and costs.

B.10.-B.16. Work on Pediculus Humanus

Research begun at the Quick Laboratory, Cambridge, 1913, the results of the work, which was interrupted by war, being published in papers in 1917 and 1919.

- B.10. Hindle's notes on the louse, on the series of experiments to be done, calculations on the results, etc., various dates 1913-14.
- B.11. Records of experiments, almost daily June-October 1913 (kept by laboratory assistant and by Hindle).
- B.12. Continuing records 'Series I', all by Hindle, January 1914.
- B.13. Notebook and ms. notes, at front 'Series 2', March 1914, at rear 'Series 3', April 1914.
- B.14. Notebook and ms. notes 'Series 4', June 1914.
- B.15. Ms. draft for paper 'Sex distinction in Pediculus humanus var. corporis', published in J. Genetics, 8, 18 pp.
- B.16. Ms. draft (fragmentary) of Hindle's report to the M.R.C. on his work on Rickettsia in lice, March-September 1919.
- B.17. Black notebook inscribed 'E. Hindle 1919' with note on first page 'March 1st received from Prof. E. Marchoux Inst. Pasteur about 60 Argas persicus infected with the Brazil strain of S. Gallinorum'.

(Hindle had studied with Marchoux at the Institut Pasteur on fowl pest in 1911.) (see B.3.)

Experimental records April-August 1919.

- B.18.-B.27. Notebooks of research during period as Professor of Biology, School of Medicine, Cairo
- B.18,B.19. 2 notebooks one inscribed 'Ova findings in faeces', recording observations on various medical cases in the hospital, notes on tropical diseases, graphs of incidence of parasites, etc.
- B.18. mainly 1919.
- B.19. mainly 1921-22; includes beginning of draft paper on 'Investigations on the aetiology and pathenogenesis of yellow fever', and a draft letter from Hindle re testing of his vaccine in French West African Colonies, n.d. but (c) 1930; not all the observations are in Hindle's hand.
- B.20-B.23. 'Molluscs'. 4 notebooks of observations and experiments, various dates 1920-21 (not all in Hindle's hand).
- B.24-B.25. 'Examination of Snails'. 2 notebooks of observations and experiments, various dates 1922-24 (not all in Hindle's hand).
- B.26. Green notebook inscribed 'Miscellaneous experiments'.
Includes records on rejuvenation, X-rays, cancer, anti-sperm sera and others, various dates 1921-23.
- B.27. Green notebook inscribed 'Antisperm sera' experiments on rats 1922.
- B.28.-B.30. Work as Milner Research Fellow, London School of Tropical Medicine and Hygiene 1924-25.
- B.28. Green notebook inscribed 'Spirochaetes'.
Records of experiments with Argas Persicus, with specimens obtained from widely different sources, various dates October 1924-March 1925.
The book continues with records of work on Leptospira from specimens obtained from Thames water, April-May 1925.
- B.29. Miscellaneous correspondence re grants for research, and offer of 3-year post at School 'for the purpose of undertaking some organised research into the Spirochaetes and Spirochaetal diseases', April-November 1924.
- B.30. Correspondence from Clifford Dobell re possible research on disseminated sclerosis 1925; includes letter from Hindle to Dobell March 1926 giving an account of his Kala-Azar research in China (see below).

B.31.-B.54.

Royal Society's Kala-Azar Commission in China
1925-27

Hindle was a member, and later the leader, of the Commission, the purpose of which was to investigate the problem of visceral Leishmaniasis (kala-azar) in N. China.

The Chinese hamster was used as the main laboratory animal in the transmission experiments, and at the end of the expedition Hindle attempted to introduce them as laboratory material in Britain, but the species failed to breed successfully. The Golden hamster, brought from the Hebrew University, Jerusalem, to Hindle's laboratory by Saul Adler in 1931, was bred with conspicuous success as a laboratory animal and as a pet.

See B.37. for correspondence relating to the unsuccessful attempt with the Chinese hamster, and B.93.-B.100. for material on the Golden hamster.

The material on Kala-Azar is presented as follows:

B.31.-B.37. Correspondence: B.31, B.32 personal,
B.33-B.37 Scientific

B.38.-B.54. Notebooks and working papers.

The correspondence often reflects the disturbed political and military conditions of the time as well as the research in progress. In one of his letters to H.H. Dale (then Secretary of the Royal Society) Hindle mentions that he sent his correspondence in duplicate 'one copy via Siberia and the other via Suez'; his experiences in China made a lasting impression on Hindle, who often referred to them in talks and lectures, particularly in his later years.

For other material on Kala-Azar, see B.30, C.6.

B.31. Letters of introduction, brief correspondence re transport of boxes at end of expedition.

Photographs and notes taken by Hindle on 'manure factory' in China.

A reprint of the published Reports on the Commission's work is included here.

B.32. 2 notebooks of a journal kept sporadically on the outward journey to China and of a holiday visit to Japan, both in the hand of Hindle's first wife, who died in 1933.

- B.33. Correspondence with Royal Society, May 1925-June 1928, chiefly with H.H. Dale (Secretary) and F.A. Towle (Assistant Secretary). Includes some of Hindle's accounts of expenditure, correspondence re staff and research, continuation of investigation on improvement of political situation, draft letter on congenital Kala-Azar written by Hindle for publication in British Medical Journal but not submitted on advice from Dale, letter of congratulation from Dale on successful completion of work under difficult conditions.
- B.34. Correspondence re supply of drugs for Kala-Azar patients 1926-27 with C.M. Wenyon.
- B.35. Miscellaneous documents: notice inserted in Tsingtao Times explaining research and requesting help from members of public; letter from C.H. Lei; Hindle's final report on research to Royal Society (incomplete) 1927-28.
- B.36. Correspondence re identification of insects from China, 1928, with Guy A.K. Marshall.
- B.37. Correspondence re hamsters. 1927-28.

Chinese hamsters were used as the main laboratory animal in the transmission experiments of the expedition. At the end of the investigation, most remained in the charge of Feng Lan Chow of the Shantung Christian University, but some were brought to England for Hindle 'on the understanding that they are exclusively for laboratory use'.

The letters chronicle the arrival of the hamsters and their first breeding at the London Zoo. The animals failed to breed successfully, and the Golden hamster was introduced from Aleppo in 1930 and reached Hindle's laboratory in 1931 (see B.93.-B.100.).

From Feng Lan Chow
 H.F. Johnson
 G.M. Vevers

Notebooks and working papers on Kala-Azar

- B.38. Folders of casenotes of patients with Kala-Azar, in Shantung Hospital 1920-25, and 2 notebooks of 'new cases' April-July 1926.
- B.39. Large ledger-type notebook, recording varying results of infection by species of Phlebotomus chinensis, P. major, P. sergenti, P. mongolensis; includes ms. drafts for paper, and letter from L.C. Feng. Various dates 1926-27.

- B.40. Black notebook inscribed 'Kala-Azar transmission experiments 1927'.
- B.41. Black notebook inscribed 'Phlebotomus'. Observations on various species, 1925-27.
- B.42. Black notebook of observations on hamsters:
nos. 1-402 1925-26
- B.43. Ditto nos. 403-565 1926
- B.44. Ditto nos. 566-924 1926-27
- B.45. Black notebook of 'transmission experiments' on hamsters:
nos. S.1-S.125 1927
- B.46. Ditto nos. S.126-S.201 1927
- B.47. Ditto nos. S.202-S.260 1927
- B.48. Black notebook of observations on hamsters infected with Leishmania infantum, Tunis strain, 1926.
- B.49. Ditto, on Indian Kala-Azar from Gologhat, 1927.
- B.50. Ditto, on Leishmania tropica from Baghdad, 1927.
- B.51. Black notebook inscribed 'Cultures etc.' of notes of preparations and methods of treatment on human patients and hamsters, various dates 1925-27.
- B.52. Black notebook inscribed 'Collections from Tsinan'. Miscellaneous observations on other specimens found or brought to Hindle's laboratory - fish, scorpions, toads, etc. 1925-27.
- B.53. Fragment of notebook of observations on Leishmania donovani, Indian strain, 1928.
- B.54. Correspondence with colleagues in UK re identification of various species of creatures sent from China by Hindle:
H.W. Parker, 1926-28 (reptiles and batrachians)
Hugh Scott, 1926
Oldfield Thomas, 1926, 1928 (mammals, bats).

B.55. B. Blacklock 1928
Antony Brett 1929 (Hindle's carbon only)
W.A. Calzette 1928
Clarence C. Chapman 1928-29
Fisons Co. 1929

B.55.-B.85. Beit Research Fellow in Tropical Medicine at the Wellcome Bureau of Scientific Research 1928-1933.

Hindle applied for this post while still in China as leader of the Kala-Azar Commission. The Fellowship was awarded for research on 'Spirochaetosis in relation to the etiology of Yellow Fever', though this was not the only topic on which he worked during his tenure of the Fellowship.

The material is presented as follows:

B.55.-B.63. Correspondence and reports on yellow fever

B.64.-B.70. Notebooks on yellow fever

B.72.-B.85. Other research notebooks and correspondence

For lectures on yellow fever, see C.9.

B.55. Correspondence re application, and appointment to Fellowship. With Dr. (later Sir) Andrew Balfour (Director, London School of Hygiene and Tropical Medicine, where Hindle was Milner Research Fellow, see B.28.-B.30.), and Sir James Fowler (Secretary, Beit Fellowships Committee). Some scientific correspondence and information on Kala-Azar expedition is included. 1926-28.

Correspondence continues 1929-34 re extension of Fellowship, which was not renewed after original term of five years.

B.56. Correspondence with officials and colleagues re supply and housing of research animals, expenses and refunds, etc. 1928-30 (not indexed).

B.57. Copies of letters from Hindle to various colleagues in UK and abroad requesting laboratory space after accidental infection from the virus had caused Hindle and two attendants to contract the disease, and the death of a hospital technician. The work was transferred from London to the Wellcome Field Station in Kent.

1930

B.58.-B.62. Correspondence on yellow fever re supplies and exchange of specimens, results, etc. presented in alphabetical order, with dates and a note of material of particular interest. Most of the letters are brief exchanges only.

B.58.	B. Blacklock	1928
	Anton Breinl	1929 (Hindle's carbon only)
	W.A. Calmette	1928
	Clement C. Chesterman	1928-29
	Firestone Co.	1929

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| B.59. | L.W. Hackett | 1950, 1951 (laboratory infections) |
| | Max H. Kuczynski | 1929 (also later correspondence 1932) |
| | Sir John W.D. Megaw | 1932 (Hindle's 5 pp. letter on possible spread of yellow fever to India) |
| B.60. | J. Marchoux | 1929 (laboratory infection) |
| | R.A. O'Brien | 1929 (with Report to C.W. Wenyon on results of research in vaccines) |
| | J.L. Pawan | 1931, 1933 ('red howler' monkeys) |
| | A. Pettit | 1928, 1929 |
| B.61. | Frederick F. Russell | 1928 |
| | Wilbur A. Sawyer | 1929-31 (research results, laboratory infection, etc.) |
| | W. Schöffner | 1929 |
| | A.W. Sellards | 1928 |
| B.62. | C. Strickland | 1929 |
| | G.K. Strode | 1929 (Hindle's carbon only) |
| | V.B. Wigglesworth | 1928 |
| | unidentified | |
| B.63. | Hindle's Reports on his research as Beit Fellow, June and November 1928, June 1929, May 1930, May 1931, May 1932, May 1933. Also included here is a copy of Hindle's report to Sir Henry Dale on the Kala-Azar expedition, January 1928. | |
| B.64.-B.69. | Sequence of 6 notebooks of experimental records of work on yellow fever in monkeys, numbered and dated. | |
| | B.64. nos. H.1-H.3 | March 1928 |
| | B.65. nos. H.7-H.95 | April-September 1928 |
| | B.66. nos. H.96-H.150 | September 1928 - January 1929 |
| | B.67. nos. H.151-H.216 | January-June 1929 |
| | B.68. nos. H.217-H.281 | June-November 1929 |
| | B.69. nos. H.282-H.371 | November 1929-July 1930 |
| B.70. | Notebook 'Mosquitoes', record of experiments January 1929-March 1930, some linked with monkeys in above sequence. | |

B.71. Bundle of newspaper cuttings re Hindle's work on yellow fever.

B.72.-B.85. Other research carried out as Beit Research Fellow.

Bartonella Muris, 1931.

2 notebooks of observations on mice infected with Bartonella and subsequently splenectomised.

B.72. April-June 1931

B.73. July-October 1931 (and some experiments on hamsters November 1931)

Feline Distemper

see also B.81, B.91

2 notebooks of observations on numbered specimens.

B.74. December 1930-October 1931

B.75. September 1931-January 1932

Included here are 2 publications by Hindle on Feline Distemper and letter re possible human contraction of the disease.

Leptospira

5 notebooks of observations on wild rats, sources and specimens numbered, with dissections especially of rat kidney, 1931-33.

B.76. nos. 1-169 (book begins with experiments on rabbits, and includes correspondence from Charles Elton)

B.77. nos. 176-197

B.78. nos. 200-394

B.79. nos. 400-543 (includes hamsters and rabbits)

B.80. nos. 544-632 (includes dogs and rabbits)

B.81 Notebook inscribed 'various', 1929-30; includes work on climatic bubs, rat kidney virus, Dax spirochaetes (see also B.90.), feline distemper (see also B.74-B.75, B.91.).

B.82. Black notebook of tests of serum and virus on mosquitos, March-June 1930.

B.83. Notes on Spirochaetes, 1933.

- B.84. Correspondence on rats, mainly re exchange and analysis of specimens. 1931-33
E.V. Cowdry
Jethro Gough
David Keilin
John O. Oliver
Dorothy Russell
W. Schüffner
- B.85. Correspondence on spirochaetes, mainly re exchange of specimens. 1928-34
L.A.P. Anderson
William Fletcher
T. Hower
H. Króo
R.A. O'Brien
H.J. Parish
W. Schüffner
Edmond Sergent
J. Smith
M. Theiler
P.H. Van Thiel
J.V. Vósárhelyi

- B.86. Work at the London Zoo as Guest of the Zoological Society, June-October 1935.
Ledger of observations on various animals, and duplicated copy of Hindle's report on his research for the period.
- B.87.-B.89. Work at Glasgow University, 1938-39.
- B.87. Work on Voles at Glasgow, 1938.
Notebook 'Observations on Field Voles, Argyle'. Observations run 24 May 1938-24 March 1939 and cover 19 batches of voles.
- B.88. Folder of notes and data 'Microtus and Toxoplasma' kept by S. Greenhill of Hindle's department, May-October 1938 and correspondence re supply of the animals.
- B.89. Notes and correspondence re laboratory methods and techniques for use at Glasgow University.
- B.90.-B.101. Miscellaneous notes and correspondence arising from scientific research
Presented alphabetically by topic.
- B.90. Algae and fauna of hot springs
see also B.81.
Correspondence and notes, 1930, 1932.
Correspondence and notes 1935 from Dr. Jean Orr Ewing re her expedition to the hot springs of Iceland, and its results.
- B.91. Cats - especially re 'Feline Distemper'
see also B.74, B.75, B.81.
Includes 10 pp. ms. of talk on 'Show Fever' or Feline Distemper given by Hindle at a meeting on 1 June 1933, at which an organising committee was set up to obtain support to investigate the disease. The Committee was wound up in October on research being undertaken at the Wellcome Laboratories by Dr. O'Brien. Includes correspondence with Committee Secretary, 1933.

B.92. Dogs

Miscellaneous material on breeding and showing of various types of dog owned by Hindle and Mrs. Hindle.

Includes report, rules and list of members and correspondence re 'Miniature Dachshund Club', of which Hindle was Secretary before taking up his appointment at Glasgow, various dates 1930-36.

B.93.-B.100. Hamsters
see also B. 37.

B.93. Research notes and writings by Hindle. Includes: reprint of his paper (with H.M. Bruce) 1934; research notes and a ms. draft of a short paper on the history of the Golden hamster, c.1942; ms. draft and typed version dated 1945 of Hindle's contribution (Chapter 15. The golden hamster) to The UFAW handbook on the care and management of laboratory animals, 1947; draft of exhibition and discussion of hamster mutants, probably for British Hamster Club (c) 1950.

B.94, B.95. Correspondence re British Hamster Club 1947-53 chiefly with Mrs. Jean E. Cook (Secretary), and other members of club and of general public, on hamster breeding and affairs of the club. Observations on the behaviour, colouring and health of hamsters occur passim in the correspondence.

B.94. 1947-49

B.95. 1950-53

B.96. Correspondence etc. with Midlands and Northern Hamster Club, especially with Secretary, H.W. Reynolds, re breeding of hamsters and the affairs of the club. (Includes some duplicated newsletters of the club.) 1947-50

B.97. Duplicated bulletins and newsletters of the British Hamster Club (produced by the Secretary, Mrs. Jean Cook - see also B.94.-B.95.).

B.98. Printed matter: reprints of scholarly articles, popular handbooks on hamsters as pets.

- B.99. Correspondence re hamsters, including some material
re genetic abnormalities, breeding and other information.
- | | |
|---------------------|------------|
| Boots Pure Drug Co. | 1950 |
| A. J. Cork | 1947 |
| C. D. Darlington | 1948 |
| T. Deegan | 1951 |
| Geoffrey Eden | 1948 |
| G. Edward Eversole | 1948 |
| A. L. Hagedoorn | 1945, 1953 |
- B.100 Correspondence re hamsters (continued)
- | | |
|-------------------|---|
| Joseph A. Johnson | 1945-46 (includes correspondence
<u>re</u> founding of the British Hamster
Club of which Hindle was Patron) |
| M. P. Nightingale | 1949 |
| A. F. Prosser | 1949 |
- B.101. Mink
Miscellaneous short notes on mutations and colorations
of mink (perhaps for talk or exhibition at London Zoo).
- Porcupine
Miscellaneous short notes and correspondence (perhaps
for talk or exhibition at London Zoo).

B.102.-B.106. One World

This publication was intended to be an 'International Review of the Arts, Sciences, Letters'. Hindle served on the Advisory Board, took the Chair at Board meetings, and wrote to many scientific colleagues to enlist support and contributions. The project was financed wholly by Mr. Sydney Walton, who was unable to continue his backing beyond the agreed sum. No other support was found and the publication was abandoned.

B.102- 3 folders of correspondence with the Editor, Mr. Mark
B.104. Joffé, and with colleagues re affairs of the project,
including Minutes of meetings, publicity statements, etc.

B.102. April-December 1946:
M. Joffé
F. Gross
Sir E. John Russell
Sir John Boyd Orr
Adriano Buzzati-Traverso
General Sir James Marshall-Cornwall

B.103 1947:
Sir John Russell
Sir Julian Huxley
E.A. Spaul
Sir Wilfrid Le Gros Clark
Sir James Marshall-Cornwall
M. Joffé
F. Gross

B.104 1948:
M. Joffé

B.105 Documents re One World: statements of aims, articles
of association.

B.106 Copy of Vol.1, no.1, published for private circulation
for fund-raising purposes, and the only issue to appear,
April 1947.

This specimen issue includes articles by Sir John Boyd Orr,
Sir John Russell and F. Gross, written at request of
Hindle.

B.107.-B.108. Drawings

B.107. 'Classification of Coelenterata': miscellaneous
pages of drawings and descriptions, all in Hindle's
hand (probably for Glasgow lectures).

B.108. Helminths: miscellaneous labelled drawings, probably
not by Hindle.

Lice: ink drawings by Hindle for paper.

Spirochaetes: drawings and figures by Hindle.

SECTION C

LECTURES, TALKS, BROADCASTS, PUBLICATIONS

The material is presented chronologically as far as possible, though many drafts and mss. are undated and fragmentary.

- C.1. Flies in relation to disease. C.U.P. 1914
Contract with publishers, misc. correspondence re permission to use figures, diagrams, etc., royalty statements, press-cuttings of reviews, letters of congratulation, etc. 1913-15.
- C.2.-C.4. Notes for lectures at Cairo
3 folders labelled 'Zoology', 'Animal Physiology', 'Ciliates', bearing various dates 1921-23 and some with notes in the hand of H. Munro Fox.
- C.5. 19 pp. ms. for a lecture on history and disease, and miscellaneous other notes and drafts on the subject; apparently given during visit to China with Royal Society Commission on Kala-Azar, probably at Tsinan Christian University. (c) 1926.
- C.6. Ms. notes for remarks following an address by Dr. C.M. Wenyon, on sandflies as transmission agents of Leishmania, n.d. but (c) 1928.
- C.7. Copy of letter to The Times by Sir Walter Fletcher, on Yellow Fever in West Africa and making reference to Hindle's work, November 1928.
- C.8. The William Withering Lectures in the Faculty of Medicine, University of Birmingham 1935.
Invitation to give lectures (1933) and brief ms. notes on filterable viruses. See also C.12.
- C.9. Talks on yellow fever
10 pp. ms. notes for talk, n.d.
4 pp. ms. and 1 p. report, of talk to University Philosophical Society [Glasgow], n.d.
'Yellow fever, by Edward Hindle', 14 pp. ms., probably also given at Glasgow, n.d. but (c) 1942.
'Yellow fever', pps. 11 and 12 of a more general lecture on filterable viruses, n.d.

C.9. continued

C.9.
continued

2 pp. heavily-corrected ms. for talk, n.d. but
(c) 1942.

7 pp. ms. with note 'B.B.C.', an expanded version
of the above.

25 pp. transcript of programme on 'Yellow Fever'
by Nesta Pain, broadcast in BBC Home Service,
16 January 1945. This was a dramatised docu-
mentary, for which C.M. Wenyon and Hindle acted
as scientific advisers.

- C.10.-C.23. Lectures and talks at Glasgow University
see also A.21, B.87-B.89.
- C.10. Folder of notes, diagrams, classifications, etc. inscribed 'Evolution', including Mendelism, heredity, vestigial organs.
- C.11. Similar folder on 'Parasitology'.
- C.12. Similar folder on 'Filterable viruses' (included with later material is part of Hindle's ms. for the William Withering Lectures in Birmingham 1935, see C.8.)
- C.13,C.14. 2 folders of notes, diagrams, etc. for course on Zoology (for medical students), including protozoa, parasitology, and many drawings.
- C.15. Shorter notes on immunity and virus infections.
- C.16. Typescript notes for extensive course on 'Animal Ecology', n.d. but (c) 1940.
- C.17. Folder labelled 'Entomology, 3rd term 1943'.
- C.18. 'The fauna of the Scottish National Park', 6 pp. ms. talk, with 1 p. abstract, map, and notes and statistics on various species.
- C.19. 6 pp. ms. lecture to medical students, on tropical medicine, and including autobiographical reminiscences.
- C.20. Ms. notes and draft for talk on 'Insects and Disease', n.d.
- C.21. Abstract of lecture on 'Disease and History', probably for Philosophical Society, Glasgow, n.d.
- C.22. Summary and notes for talk on 'Zoology in Glasgow since 1800', for Adam Smith Club, Glasgow, 1941.
- C.23. Miscellaneous shorter notes for speeches at Glasgow:
Juridical Society Dinner 1939
Scottish Universities Biological Conference, opening Address, 1943
Visit of Educational Institute of Scotland to Department, n.d.

- C.24. 'Filterable viruses'.
15 pp. typescript lecture, perhaps related to 1938 papers published on the subject.
- C.25. Ms. notes for talk 'Hawks etc.' at London Zoo 1942.
- C.26. 'Mammalian carriers of human infection'.
2 ms. drafts of paper given to South Eastern Union of Scientific Societies, n.d. but (c) 1948.
- C.27. Transcript of first number of 'Science Magazine' series broadcast on BBC Home Service, August 1945, to which Hindle made a short contribution.
Included here is a 2 pp. ms. note by Hindle on suitable subjects for radio talks or series on zoology.
- C.28. 'Zoos'.
Article for Oxford Encyclopaedia for boys and girls; draft for article, and correspondence with editor, C. Day Lewis, 1946.
- C.29. 'Robert Newstead'.
Obituary, probably prepared for the Linnean Society, 3 pp., 1947.
- C.30. 'Zoology in a changing world'.
5 pp. typescript, incomplete, probably prepared for Penguin Science News 1950.
- C.31. 'Biology as a career'.
35 pp. typescript, n.d. but (c) 1946-47.
- C.32. 'Primates'.
Presidential Address to Bournemouth Natural Science Society, November 1948.
Ms. draft, summary and report.
- C.33. 'Sir Peter Chalmers Mitchell'.
Entry for D.N.B.
Draft for entry, and correspondence with editor, L.G. Wickham Legg, 1949.

- C.34. Transcript of 'Searchlight', broadcast on BBC Light Programme February 1950, with contribution by Hindle on elephants.
- C.35. 10 pp. ms. draft for lecture to children on methods of scientific discovery, organised by Council for Education in World Citizenship, and correspondence with Secretary, David Ennals, December 1950.
- C.36. Note on the Zoological Record.
4 pp. ms. draft, and reprint of another note on the subject published in Trop. Dis. Bull., 1950.
- C.37. 'The Development of entomological science in Britain during the last century'.
5 pp. typescript, n.d. but (c) 1950.
- C.38. 'Ancient cave-dwellers use spray technique', published as 'Primeval pictures were spray-painted' in Paint, December 1953.
- C.39. Speech (in French and English), Congrès du Bureau International de la Sauvagine, and press-cutting 1958.
- C.40. 'Game versus Tsetse', published as 'Game and the Tsetse fly', Oryx, April 1957.
- C.41. 'Problems of Ageing'.
6 pp. report on symposium on the Biology of Ageing held at Institute of Biology.
- C.42. 8 pp. speech at celebration of 10th Anniversary of founding of the Institute of Biology. Hindle was a founding member and the first President of the Institute (1951-53) and the speech includes reminiscences of the early days, 1961.
- C.43. 2 drafts for talk on 'Zoology and Medicine', n.d., but (c) 1960.

Undated lectures and writings

- C.44. Miscellaneous reviews, and summaries for Medical Abstracts (not itemised).
- C.45. Miscellaneous shorter notes for talks at London Zoo.

- C.46. 'Children's lecture' at Royal Geographical Society, n.d.
- C.47. Notes for talk on 'Appreciation of beauty in animals'.
- C.48. Notes for article on 'Parasitism', probably for Chambers Encyclopaedia, 1961.
- C.49. 'Monkeys and filterable viruses', 8 pp.
- C.50. 'Venomous Snakes'.
- C.51. Speech at dinner of Kingston debating society; includes reminiscences, especially of expedition to China.
- C.52. Notes for animal scenes in films 'Animal Wonderland' and 'Denizens of the Wild'.
- C.53. Notes for talk on 'Animal Camouflage'.
- C.54. Notes for talk on 'Flight'.
Obituary note on Captain W.H. Livens, cutting from The Times, February 1964.
- C.55. Reprints of published works, press-cuttings of notes in journals by Hindle or about his writings and speeches.
1 Box.

SECTION D

CORRESPONDENCE

N.B. Other correspondence, kept by Hindle with the topics of research to which it relates, can be found in the relevant files in Sections B and C.

All correspondents are listed in the general index on pps. 34-37.

- D.1. Letters from Saul Adler, 1931, 1932, 1935, 1939, 1943.
The correspondence relates to many aspects of Hindle's life and work, e.g., sandflies, Bartonella muris, G.H.F. Nuttall ('Have you noticed his remarkable facial resemblance to Thomas Hardy?'), relapsing fever, spirochaetes, etc.
- D.2. With J.R. Baker, re Society for Freedom in Science, 1950-51.
- D.3. With Alan A. Boyden, 1948-51.
Mainly re work of the Serological Museum, Rutgers University, New Jersey, and its recognition as a subsection of the Section of Zoology of the International Union of Biological Sciences, of which Hindle was then President; also includes 2 pp. ms. note by Hindle of reminiscences of G.H.F. Nuttall, for publication in the Bulletin of the Serological Museum no.6, May 1951, the Nuttall Memorial Issue.
- D.4. Correspondence from Gerrit B. Brouwer, re 'Starling Pots', 1961.
Includes reprint of article on the subject.
- D.5. From:
Bute, Marquess of 1949
Gordon E. Davis 1951
(classification of spirochaetes)
Claude E. Dolman 1963
(history of yellow fever research)
Charles Elton 1931
- D.6. From:
Julian S. Huxley 1944
(enclosing letter from Anton Pratt re Koala bears)
J.E. Marchoux 1932

- | | | |
|-------|--|----------------------------|
| D.7. | With Carl Pantin
(evolutionary theory) | 1950 |
| D.8. | From L.E. Robinson
(also H.J. Crauford-Benson - on lice) | 1942 |
| | With Miriam Rothschild
(nature reserves) | 1946 |
| D.9. | With Lord Rothschild | 1946-51 |
| | Mainly scientific correspondence on spermatazoa, surface changes, discussion of work in progress, etc. Some reference to 'One World' (see B.102-B.106) and some personal and social material are included. | |
| D.10. | From E.C. Smith
(on spirochaetes. Smith worked for the Medical Research Institute at Lagos, and tested various strains for Hindle) | 1933 (and one letter 1937) |
| D.11. | From Nora G. Sproston
(on scientific research, and conditions, in China where she was then working) | 1951-52 |

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