



National Cataloguing Unit for the Archives of Contemporary Scientists

Catalogue of the papers and correspondence of

**HOWARD EVEREST HINTON FRS**

(1912-1977)

Compiled by Timothy E. Powell and Peter Harper

Deposited in the Library,  
University of Bristol

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## GENERAL INTRODUCTION

### PROVENANCE

The papers were received in June 1995 from Dr James Hinton, son.

### OUTLINE OF THE CAREER OF HOWARD EVEREST HINTON

Howard Everest Hinton was born on 24 August 1912 in Matehuala, Mexico. His parents had moved to Mexico in connection with his father's work as metallurgist and mining engineer. From the age of 15 Hinton was educated at schools in California before going on to the University of California at Berkeley where he was awarded his B.Sc. in 1934. He did postgraduate research at King's College Cambridge and was awarded his Ph.D. in 1939 (Sc.D. 1957). Hinton was appointed Junior Curator at the University Museum of Zoology in Cambridge in 1937. In 1939 he was made Assistant Keeper at the British Museum (Natural History), a post he held until 1949 when he was appointed Lecturer in Zoology at the University of Bristol. He remained at the University of Bristol for the remainder of his career, being made Reader in Entomology in 1951, Professor of Entomology in 1964 and Professor of Zoology and Head of Department in 1970. He resigned as Head of Department in July 1977 for reasons of ill-health and resumed his personal Chair. He died on 2 August 1977.

Hinton began collecting insects from the age of nine, his interest in natural history acquired from his father, an amateur naturalist of some note. By the time he received his B.Sc. he had already seventeen published papers. His pre-war research was concentrated on the classification of beetles but Hinton's entomological interests were subsequently broadened, initially by his wartime work on insect pests of stored products, and then by his appointment as Lecturer at Bristol University, for which he was required to teach a wide range of entomological subjects new to him. Hinton developed his research interests to cover many fields such as insect metamorphosis, insect pupae, respiratory adaptations, cryptobiosis in insects (in which connection he posited a new theory of the origin of life on Earth) and insect coloration. He authored over 300 publications, his work culminating in the three volume *Biology of Insect Eggs* which he completed just before his death. Hinton also founded and edited the *Journal of Insect Physiology* and the journal *Insect Biochemistry*.

Hinton served as President of the Society for British Entomology 1954-1955 and the Royal Entomological Society of London 1969-1970. He was elected a Fellow of the Royal Society in 1961.



Hinton was very conscious of his distinguished family background. His paternal great-great grandfather was John Howard Hinton, author of *Elements of natural history and an introduction to systematic zoology*, and his paternal great grandfathers were the mathematician George Boole FRS and James Hinton, an aural surgeon. His grandfather Charles Howard Hinton was Professor of Mathematics at Princeton University. Great-great uncles included Sir George Everest FRS, the Surveyor General of India, and A.C. Haddon FRS. Hinton's first cousin once removed was Sir Geoffrey Ingram Taylor FRS.

For a fuller account of Hinton's life and work see the biographical memoir by G. Salt (*Biographical Memoirs of Fellows of the Royal Society* **24** (1978), 151-182, a copy of which may be found at A.3.

#### DESCRIPTION OF THE COLLECTION

The material is presented in the order given in the List of Contents. The collection, though small, includes significant records of Hinton's family background and early entomological research.

Section A, Biographical, includes autobiographical drafts, notes made for his Royal Society personal record, tributes and obituaries and many letters of condolence received by his widow Margaret Hinton, some with recollections of Hinton. The largest component of the section, however, is family material. There is correspondence with his father and two brothers G.B. and J.C. Hinton, and also with more distant relations. Of particular note is that with his first cousin once removed, Sir Geoffrey Ingram Taylor, covering the period 1947-1974. There is also historical material relating to his great-great grandfather George Boole. The family correspondence and papers are supplemented by photographs of family members.

Section B, Research, is particularly notable for its notebooks which cover Hinton's work collecting and classifying beetle specimens over the period 1928-1937. The notebooks are generally in the form of journals and often record not only Hinton's collecting activities but his plans for the future, social engagements etc. The period covered by the notebooks includes Hinton's visit to South America in 1937 with the Percy Sladen expedition to Lake Titicaca. Hinton's subsequent journeys that year to the Amazon basin and French Guiana are also documented. Other material relating to the visit includes lists of specimens and photographs. The section also includes correspondence with V.B. Wigglesworth 1947-1974, chiefly on various aspects of insect physiology, and material from a visit to China in 1960.

There is an index of correspondents.

T.E. Powell  
P. Harper  
BATH 1996

SECTION A	BIOGRAPHICAL	A.1 - A.121
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A.1-A.11	BIOGRAPHICAL AND AUTOBIOGRAPHICAL
A.12-A.28	CAREER, HONOURS AND AWARDS
A.29-A.89	FAMILY AND PERSONAL CORRESPONDENCE
A.90-A.107	PHOTOGRAPHS
A.108-A.116	ANTIQUITIES
A.117-A.121	MISCELLANEOUS

**BIOGRAPHICAL AND AUTOBIOGRAPHICAL**

A.1

Obituaries:

*The Times*, 4 August (notice of death) and 11 August 1977 (obituary by J.S. Kennedy).

[Bristol] *Evening Post*, 4 August 1977.

University of Bristol Newsletter, 18 August 1977 (by C.J. Mapes).

Sociedad Mexicana de Entomologia information bulletin, September 1977 (by P. Reyes-Castillo). With 1p manuscript draft.

*Antenna* 1, October 1977.

King's College Cambridge Annual Report, November 1977.

See also A.22.



### Biographical

- A.2                      Appreciation of Hinton by T.R.E. Southwood, 4pp typescript, with covering letter to Margaret Hinton, 22 August 1977.
- Appreciation of 'Howard Hinton - The Pharate Adult' by Miriam Rothschild, *Antenna* 2 (1978), offprint with covering letter to Margaret Hinton.
- Appreciation of Hinton by S. Körner, 4pp typescript, delivered at Hinton's memorial service, 25 October 1977 (see also A.26).
- A.3                      'Howard Everest Hinton' by G. Salt, *Biographical Memoirs of Fellows of the Royal Society* 24 (1978), 151-182.
- A.4                      Account of Hinton by G.A. Parker sent to G. Salt, 17 February 1978.
- A.5-A.7                'Autobiography'. Contents of Hinton's binder so labelled divided into three for ease of reference: typescript pages of autobiographical accounts and reminiscences.
- A.8                      Hinton's account of his period as a student at University of California Berkeley Department of Entomology and Parasitology. Written for the departmental newsletter *The Vedalia*. Folder includes related correspondence.
- Hinton took Bachelor of Science degree at the Department in 1934.
- A.9                      Hinton's draft entries for his Personal Record of Fellows of the Royal Society.
- A.10                    Curricula vitae: ca.1963, ca.1973.
- A.11                    Biographical entries for *Who's Who* and other reference books.

- |      |  |
|------|--|
| A.12 | Hinton's birth certificate.  |
|      |  |
| A.13 | <p>Mexican Servicio de Migracion identity card, ca.1928.</p> <p>US Immigrant Identification Card, 1928.</p> <p>US Alien Head-Tax receipt, 1928.</p>  |
|      |  |
| A.14 | <p>Diploma of Graduation, Berkeley High School, 6 June 1930.</p> <p>Diploma of Graduation, Modesto Junior College, California, 16 June 1932.</p>   |
|      |  |
| A.15 | <p>Partnership in Pacific Coast Biological Service (Biological Specimens &amp; Butterfly Artwork).</p> <p>Hinton became a quarter-partner in the business in 1932.</p> <p>Letter <i>re</i> partnership, 14 November 1932; contract, 14 December 1932; receipts 1932; later contract, May 1934.</p> |
|      |  |
| A.16 | <p>Report card, University of California, 28 December 1933.</p> <p>Copies of Hinton's Record, University of California, 20 February 1934.</p> <p>(For Hinton's Bachelor of Science Degree see A.28).</p>   |
|      |  |
| A.17 | <p>Election to Fellowship of the Royal Society, 1961.</p> <p>Certificate; newspaper cutting.</p>   |



### Biographical

- A.18                      Honorary Associate, Institute of Ecology of Mexico, 1967.
- President of the Royal Entomological Society of London, 1969-1970.
- A.19                      Grace H. Griswold Lectures in Entomology, ?USA, 6 and 7 November 1969.
- A.20                      Royal Society Scientific Publications Board (certificate of thanks for service only, 1970).
- Member of Mexican Society of Entomology, 1971.
- A.21                      Resignation as Head of Department from July 1977.
- A.22                      University of Bristol Annual Report of Council for 1976-77, recording Hinton's appointment as an Honorary Investigator of the Institute of Ecology of Mexico and his Public lecture on Mimicry, and including an obituary of Hinton by J.S. Kennedy.
- A.23-A.27                Death of Hinton, 2 August 1977.
- A.23-A.25                Letters of condolence to Margaret Hinton. 3 folders.
- In chronological order.
- A.26                      Press-cuttings of Memorial Service, 24 October 1977.
- A.27                      Later correspondence with Margaret Hinton, 1977-1979.
- A.28                      Roll of Hinton's certificates:
- Bachelor of Science, University of California, 17 May 1934.
- Ph.D., University of Cambridge, 12 May 1939.
- D.Sc., University of Cambridge, 30 November 1957.

**Biographical**

**FAMILY AND PERSONAL CORRESPONDENCE**

**Family**

Hinton was very conscious of his distinguished family background. His paternal great-great grandfather was John Howard Hinton, author of *Elements of natural history and an introduction to systematic zoology* and his paternal great grandfathers were the mathematician George Boole FRS and James Hinton, an aural surgeon. His grandfather Charles Howard Hinton was Professor of Mathematics at Princeton University. Great-great uncles included Sir George Everest FRS, the Surveyor General of India after whom the mountain was named, and A.C. Haddon FRS. Hinton's first cousin once removed was Sir Geoffrey Taylor FRS.

A.29, A.30	General
A.31-A.56	Hinton family
A.57-A.62	Wattley family
A.63-A.65	Stott family
A.66-A.72	Taylor family
A.73-A.79	George Boole

**General**

A.29	Family trees and associated notes and papers on distinguished family members.
A.30	Correspondence with researchers <i>re</i> Hinton and Taylor families 1968-1976.



## Biographical

### Hinton family

- A.31-A.37      George Boole Hinton (father)
- G.B. Hinton worked in Mexico for various mining companies. He held many positions but by training was an ore-testing specialist. He was an amateur botanist of note and collected many specimens for the Royal Botanic Gardens, Kew.
- A.31      1918-1924. Correspondence with R.B. Wattley, his brother-in-law.
- Wattley was President of the National Drug Stores Corporation. The correspondence relates to family matters and to orders from Hinton for equipment.
- Also includes list of posts held by G.B. Hinton ca.1907-1922.
- The correspondence was sent to Hinton by Wattley in 1968, 1969 and 1970 (see A.59, A.60).
- A.32-A.36      Correspondence with Hinton 1929-1942.
- Most of the correspondence dates from Hinton's periods of study in California and England 1932-1936. Hinton was supported by his father and wrote explaining his financial position, educational and career plans and current research. His father's letters include accounts of his two other sons and of his own career and financial position.
- A.32      1929, 1932.
- A.33      1933.
- A.34      1934.
- A.35      1935.
- A.36      1936-1942.
- A.37      1943. Correspondence with brothers *re* father's death and his estate.

### Biographical

- A.38 Emily P. Hinton (née Wattley) (mother).  
  
One letter only, to her brother R.B. Wattley, 8 January 1918. Sent to Hinton by R.B. Wattley in 1969 (see A.60)  
  
Folder also includes letter of condolence to Margaret Hinton on her husband's death, 3 October 1977, annotated 'Kept for the stories about Howard's mother Emily Wattley [...]', found with family correspondence.
- A.39 Erica Hinton (née Deutchler) (step-mother).  
  
1933, 1934, 1937.
- A.40-A.43 George Boole Hinton (brother).  
  
Chiefly *re* family, careers and future plans. Includes a little correspondence between G.B. Hinton and other family members.
- A.40 1932-1936.
- A.41 1939-1962.
- A.42 1964-1965, 1970.
- A.43 1974-1977.
- A.44-A.48 James Cottrell Hinton (brother).  
  
Chiefly *re* family, careers and future plans.
- A.44 1932, 1945-1949.
- A.45 1952-1959.



### Biographical

- A.46                      1960-1968. Includes correspondence *re* collecting curculionidae and other beetles 1967-1968.
- A.47                      1969, 1970.
- A.48                      1973-1976, nd.
- A.49                      Margaret Rose Hinton (née Clark) (wife).  
  
One letter only, 27 August 1956.
- A.50                      Carmelita Hinton (née Chase) (aunt).  
  
Carmelita Hinton was best known for her progressive secondary school, founded in Putney, Vermont in 1935.  
  
Christmas card, nd; profile of Carmelita Hinton in *Globe* magazine, 26 November 1972; ?draft letters to Carmelita, nd.
- A.51                      Gale Everest Hinton (niece).  
  
Gale Hinton was a daughter of J.C. Hinton.  
  
1970-1977, nd. Two letters in Spanish.
- A.52                      George Sebastian Hinton (nephew).  
  
George Hinton was a son of J.C. Hinton.  
  
1968, 1975.
- A.53                      Helen Jamie Laura Hinton (nieco).  
  
Helen Hinton was a daughter of J.C. Hinton.  
  
1970, 1976.

### Biographical

A.54 Steven Wattley Hinton (nephew).

Steven Hinton was a son of G.B. Hinton.

One postcard only, from Steven, 4 September 1959.

A.55 Charles Howard Hinton (grandfather).

Miscellaneous biographical information, including arrangements *re* estate 1934; correspondence *re* possible authorship by C.H. Hinton of a story called 'the Unlearner', 1976.

A.56 James Hinton Hart (nephew).

James Hinton Hart was killed in Mexico in 1970.

One letter only, 1969; newspaper cutting from *El Universal*, 10 December 1970, *re* his death.

### Wattley family

A.57 Ellen Archbald Wattley (aunt).

1934, 1949-1950.

A.58 Julian St John Wattley (uncle).

1957-1960.

A.59, A.60 Ralph Beverley Wattley (uncle).

The bulk of correspondence concerns the will of G.A. Wattley (see A.61). On the death of Esther Wattley, his last surviving daughter in January 1968, the estate was divided among the surviving children and their issue. R.B. Wattley, Hinton and his two brothers were among the beneficiaries.

R.B. Wattley sent Hinton correspondence between him and Hinton's parents in 1968, 1969 and 1970 (see A.31, A.38).

A.59 1968.



### Biographical

A.60 1969-1970.

A.61 George Albert Wattley (maternal grandfather).

Two letters to G.B. Hinton (senior) and G.B. Hinton (junior), 1932 and 1934; correspondence *re* estate of G.A. Wattley, 1962-1965 (see above A.59, A.60).

A.62 Josephine Wattley (cousin).

1968-1969, 1973.

#### Stott family

A.63 Leonard Boole Stott (cousin).

1954-1962. Includes scientific correspondence.

A.64 Mary Boole Stott (cousin).

Correspondence *re* Mary Stott's estate, 1962-1964. Hinton was bequeathed the family silver bearing the Everest crest and his daughters Charlotte and Teresa received her jewellery.

A.65 Jeanette Stott.

1954, 1963-1964.

#### Taylor family

A.66-A.71 Geoffrey Ingram Taylor (first cousin once removed).

Hinton met Taylor when he came to England in 1933 to study at Cambridge for his Ph.D.

/...

### Biographical

- /... The correspondence chiefly concerns family and personal matters. At A.69, A.70 is biographical information *re* Taylor, including obituaries and profile from the *New Scientist* and at A.71 is correspondence with G.K. Batchelor *re* the disposal of Taylor's estate.
- A.66 1947-1959. Undated letter *ca.*1953 gives Taylor's views on Chinese claims during the Korean war that the US had employed bacteriological agents, and opinions on P.M.S. Blackett and J.D. Bernal.
- A.67 1960-1969.
- A.68 1972-1974.
- A.69, A.70 Miscellaneous biographical material.
- A.69 'Across the Arctic Circle in Frolic, 1927', reprint of article by Taylor for *Royal Cruising Club Journal*, 1927; profile from *New Scientist*, 12 December 1957; obituaries from *The Times*, 30 June 1975 and Society for Industrial and Applied Mathematics 'News', October 1975.
- A.70 'An unfinished dialogue with G.I. Taylor' by G.K. Batchelor, *Journal of Fluid Mechanics* **70** (1975); 'Geoffrey Ingram Taylor 1886-1975' by Batchelor, *Biographical Memoirs of Fellows of the Royal Society* **22** (1976).
- A.71 Correspondence with G.K. Batchelor *re* Taylor's estate, 1975-1977.
- A.72 Ethel Lilian Voynich.
- Voynich was the aunt of G.I. Taylor. She was best-known as author of the novel *The Gadfly*.
- Profile of Voynich in *Look* magazine, 8 July 1975; tribute on centenary of her birth; notice *re* will.



## Biographical

### George Boole

In later life Hinton developed an interest in Boole, the eminent mathematician who was his great-great grand-father, and collected biographical material about him.

A.73

Obituaries:

*Illustrated London News*, 21 January 1865.

Obituary Notices of the *Proceedings of the Royal Society*, ca.1865.

A.74

Centenary of the publication of *Laws of Thought* by Boole, Royal Irish Academy, Dublin, 24 May 1954.

Notice; newspaper cutting from Irish Press; centenary issue of *Proceedings of the Royal Irish Academy* 57A (November 1955).

A.75

Boole Centenary, 1964.

Correspondence with N.T. Gridgeman *re* family connections etc. Includes Gridgeman's profile of Boole from the *New Scientist*, 3 December 1964.

Programme for Boole Centenary Celebrations, Lincoln, 7 November 1964.

A.76

Correspondence with A.P. Rollett and others *re* family connections and Boole material held by Hinton, 1965-1970. Includes photograph of silver inkstand presented to Boole in 1849.

A.77

Correspondence with D. MacHale, 1975-1977.

MacHale was writing a biography of Boole and later helped establish a Boole archive at University College Cork.

A.78

Exchange with W.B. Lewis, October 1975.

Lewis sent Hinton copies of correspondence he had with G.I. Taylor in 1972-1973 *re* Boole and other family history.

A.79

Miscellaneous printed material.

## Biographical

### Personal correspondence

A.80                      Helen Baron Beem.  
  
1956-1962.

A.81                      Maria Luisa de la Borbolla.  
  
1969-1975.

A.82-A.86              'J.D. Gall + E. Cornish'. Contents of Hinton's folder so inscribed.  
  
While at school and university in California Hinton stayed with the Gall family. Hinton became close friends of the family including Mrs Jennet D. Gall and her niece Ellen J. Cornish and continued to correspond with them.  
  
The correspondence chiefly concerns family and career news, although during the mid-1930s Mrs Gall also looked after some of Hinton's business interests in California.

A.82                      1934-1936.

A.83                      1937-1940.

A.84                      1944-*ca.*1960.

A.85                      1961-1963.

A.86                      1964-1974, nd.

A.87, A.88              Henry Morris.  
  
Correspondence *ca.*1935-1936. 2 folders.  
  
Most letters are undated invitations from Morris for Hinton to dine or attend discussion meetings.



### Biographical

/... Also includes at A.88 a letter of 4 January 1973, thanking Hinton for the loan of his papers relating to Morris for use in preparing a book on the life and work of Morris.

A.89 Miscellaneous 1973, 1977.

### PHOTOGRAPHS

The photographs here are of family members. Most are identified on verso. Where possible their relationship to Hinton has been indicated.

A.90-A.96 Hinton family

A.97 Wattley family

A.98-A.100 Stott family

A.101-A.103 Taylor family

A.104-A.107 Boole family

#### Hinton family

A.90-A.92 H.E. Hinton

A.90 Hinton, with snake, ?November 1966.

A.91 Hinton in Cuernavaca, October 1969, some with other members of the Hinton family, sent to him by Josephine Wattley, December.

Includes covering letter.

### **Biographical**

- A.92                      Portrait photographs of Hinton.
- Plate from Bristol University Alumni Gazette, recording Hinton's election as President of the Royal Entomological Society of London.
- A.93                      Group photograph of C.H. and Mary Ellen Hinton (grand-parents) and their four sons.
- Reproduction of pastel sketch of Mary Hinton.
- A.94                      Childhood portrait photographs of the four sons, including G.B. Hinton (father).
- Other childhood photographs of the sons.
- A.95                      G.B. Hinton (father).
- A.96                      Miscellaneous, principally of Hinton's nephews and nieces as children. Most identified on verso.

### **Wattley family**

- A.97                      First World War postcard inscribed on verso 'Julian [St John Wattley] in the Great War 1914-18'.

### **Stott family**

- A.98                      Alice, Leonard and Mary Stott (cousins) as children.
- Alice Stott.



### Biographical

A.99                      Portrait photograph of Walter Stott.

First World War postcard inscribed on verso 'Leonard [Stott] in the Great War (1914-18)'.

A.100                     Miscellaneous photographs of the Stott family.

#### Taylor family

A.101                     E. and M. Taylor.

Margaret Taylor.

Group photograph of Margaret and G.I. Taylor with A. and M. Stott and Professor Schoute.

A.102                     Portrait photographs of G.I. Taylor.

A.103                     Ethel L. Voynich.

Reproduction of photograph of Wilfrid M. Voynich.

#### Boole family

A.104                     George Boole.

A note on verso records: 'Enlargement of "George Boole - copy" original in possession of Sir Geoffrey Taylor [...] summer of 1864'.

Print of Boole from *Illustrated London News*.

A.105                     Mary E. Boole.

## Biographical

- |       |  |
|-------|--|
| A.106 | Group photograph of Mary Boole with her five daughters and five grandchildren. |
| A.107 | Alice Boole as a child.  |
|       | Lucy Boole.  |

## ANTIQUITIES

Correspondence, papers and photographs *re* Hinton's collection of pre-Columbian, principally Olmec, artifacts from the state of Guerrero in Mexico.

The bulk of the material relates to Hinton's negotiations with dealers and others *re* the sale of some of the pieces.

- |              |   |
|--------------|---|
| A.108-A.112  | 'Olmec - Dealers'. Contents of Hinton's folder so inscribed divided into for ease of reference.                       |
| A.108        | Correspondence with dealers and others <i>re</i> value of Olmec antiquities. November 1967 - February 1968, May 1977. |
| A.109        | Lists of artifacts, annotated by Hinton with prices; list of auction houses and dealers in London.                    |
| A.110        | Newspaper cuttings <i>re</i> Mexican antiquities etc, most in Spanish.  |
| A.111, A.112 | Photographs of artifacts in Hinton's collection. 2 folders.   |
| A.113-A.116  | Printed material.   |
| A.113        | Mexican Museo Nacional de Anthropologia guides:<br><br>'Los Mayas'.<br><br>'Olmecas, Zapotecas, Mixtecas'.            |



### Biographical

- A.114 'Gods and Men in Pre-Columbian Art', exhibition brochure for André Emmerich, Inc., 6 October - 25 November 1967.
- A.115 Illustrated wallchart of pre-Columbian Mexican history (in Spanish).
- A.116 *Observer* magazine, 25 April 1971 with article on pre-Columbian Mexican history.

### MISCELLANEOUS

- A.117 Hinton's Boy Scouts of America membership card, 1927-1928.
- Poems.
- A.118 Miscellaneous newspaper cuttings *re* Hinton.
- A.119 Contents of Hinton's folder: correspondence, chiefly with D.M. Ross, 1949, 1954-1956.
- Correspondence 1949 is *re* Ross's presentation at 'Michurin Biology and the Inheritance of Acquired Characters', Engels Society Biology Group discussion, 15 July 1949. Includes typescript proceedings of meeting. Correspondence 1954-1956 is chiefly *re* Association of University Teachers Council business, but letter of 25 April 1956 includes Hinton's views on Lysenko and biology.
- A.120 Miscellaneous political material.
- A.121 Passports: 1947-1957, 1959-1964, 1964-1973, 1974-1984.

**SECTION B**

**RESEARCH**

**B.1 - B.36**

- B.1 'Zoology notebook Howard Hinton July, 1928. August, 1928'. Manuscript and typescript notes, chiefly on animals encountered by Hinton, some dated 1929 and 1930.

The notes were probably originally kept in a loose-leaf notebook.

- B.2 Pocket loose-leaf notebook with alphabetical dividers. Used chiefly for notes on specimens 1930-1932. At back is calendar 1929 and 1930.

- B.3 Leather-bound loose-leaf notebook used for 'Miscellaneous Notes'. Used as a journal 29 May - 5 August 1932 and 21 May - 24 June 1933 (paginated 1-27), for notes on collecting specimens, work in progress etc. Loose at back are notes on anatomy of stomachs of birds and list of 'Coleoptra in Hinton collection March 11 1929'.

The journal entries seem to have been made during visits to Mexico.

- B.4 Hard-backed pocket notebook inscribed inside front cover 'Howard E. Hinton [...] Notes for the latter part of the summer of 1933 Mexico'. Used as a journal 26 June - 18 July, for notes on collecting specimens.

- B.5 Soft-backed pocket notebook inscribed on front cover 'Notes I X-30-33 - II-7-34 [...] Coleoptra'. Used as a journal for notes on work in progress and social activities.

- B.6 Soft-backed pocket notebook inscribed on front cover 'Notes II II-7-34 - IIX-25-34'. Used as a journal for notes on work in progress and social activities continuing from B.5, also includes notes on collecting specimens in Mexico, May - July.

- B.7 Hard-backed pocket notebook inscribed inside front cover 'Notes III IIX-26-1934 to XII-30-1934'. Used as a journal for notes on work in progress and social activities continuing from B.6. The notes commence with an entry 'IIX-26-34 - London , W.2'.



### Research

- B.8 Correspondence with P.C.L. Denier, Argentine Ministry of Agriculture, *re* exchange of beetle specimens, 1934-1935. Some of the correspondence is in Spanish.
- B.9 Hard-backed pocket notebook used as a journal for notes on work in progress and social activities, continuing from B.7, January - December 1935. Later entries are in Spanish.
- B.10-B.15 Expedition to South America, February - November 1937.
- Hinton was Entomologist and Interpreter on the Percy Sladen Trust expedition to South America, led by H.C. Gilson. The expedition was principally studying the flora and fauna in the area round Lake Titicaca in Peru and Bolivia. Hinton had a grant from the Wort's Fund towards his investigation of aquatic insects of the area.
- Hinton had arrived at Lake Titicaca ahead of the main expedition. In July he left the expedition and went on to the Amazon basin where he researched until October, supported by a grant from the Balfour Fund, and then returned to Britain via French Guiana and Trinidad.
- B.10 Hard-backed pocket notebook labelled on front cover 'S. American Expedition 18-ii-1937 to 28-x-1937'. Used from the front as a journal chiefly for notes on collecting specimens, and at the back for list of expenses.
- B.11 Hard-backed pocket notebook used as a journal for notes on collecting specimens 27 October - November 1937, and for 'Checklist of American Dryopidae'. Most pages not used.
- B.12 Contents of Hinton's folder.
- The bulk of the papers date from the South American expedition, but there is a little earlier material.
- Lists of specimens from Bolivia, Brazil and French Guiana, June-November 1937 and 'Bolivia vii-25-'37 to Brazil ix-23-'37'; '1937-38' list of 'Plaumann Collection - N. Teutonia 1936'; typescript and manuscript lists of locations of finds, 1932-1935 and 1937; miscellaneous typescript and manuscript notes.
- B.13 'Titicaca Expedition 1937'. Contents of Hinton's envelope so inscribed: photographs from expedition, some identified on verso.

### Research

- B.14 'Titicaca + Brazil Negatives'. Contents of Hinton's envelope so inscribed: photographic negatives from the expedition.
- B.15 Newspaper cuttings *re* expedition; travel documentation for Peru and Bolivia; certificate of Hinton's Honorary Membership of 'El Centro Geografico de Puno', 27 September 1937.
- B.15A Sketches of insects by Hinton, possibly for a publication, 1940, 1941
- B.16 Pocket notebook used for miscellaneous jottings. At back are personal accounts 16 December 1944 - 13 February 1946. Most pages are missing.
- B.17-B.25 Correspondence with V.B. Wigglesworth 1947-1974.
- Wigglesworth was Quick Professor of Zoology at Cambridge.
- This is chiefly scientific correspondence on insect physiology. Other subjects include examining and references for students, papers submitted to the *Journal of Insect Physiology*, of which Hinton was editor.
- B.17 1947, 1950-1953.
- B.18 1954. Includes correspondence *re* diapause in lepidoptera, and shedding of the pupal cuticle.
- B.19 1955-1956. Includes correspondence *re* editorial board of the *Journal of Insect Physiology*.
- B.20 1957-1958. Includes correspondence *re* repair of wounds in insects, and 'connective tissue' in *Simulium* larva.
- B.21 1959.
- B.22 1960-1961. Chiefly *re* papers for *Journal of Insect Physiology*.



### Research

- B.23 1962. Includes correspondence *re* respiratory system of *Calliphora*.
- B.24 1963-1964.
- B.25 1965, 1974.
- B.26-B.30 Visit to China, 1960  
  
Hinton visited the People's Republic of China at the invitation of the Academia Sinica.
- B.26 Correspondence *re* arrangements, January - August, December 1960.
- B.27 Hinton's manuscript notes made during the visit.  
  
These include notes on staff and facilities of institutions he visited and lists of photographs taken.
- B.28 Hinton's typescript notes made on return, giving impressions of the visit, and later notes, some relating to the border dispute with India.
- B.29 Photographs of Hinton in China.
- B.30 Miscellaneous printed material, some *re* the China-India border dispute.
- B.31 Book reviews and notices of *Mongoose, their natural history and behaviour* by Hinton and A.M. Sarah Dunn (Edinburgh, 1967); poster for talk on Mongooses to Bristol University Zoology Society by Hinton.
- B.32 Reports by Hinton on Royal Society exchange visits to Bulgaria, 17 April - 1 May 1968 and Mexico, 5-27 October 1969.

### Research

- B.33-B.35 Newspaper and other press cuttings on Hinton's work.
- B.33 Work of Hinton and Murray Blum on dehydration and suspended animation of insects, 1960s.
- This work suggested life on Earth could have started on dry land rather than in the ocean.
- B.34 Institute of Contemporary Art Exhibition on 'Illusion in Art and Nature', London, October - December 1973.
- Hinton contributed to the exhibition displays and also wrote a chapter for the exhibition book describing mimicry in plants and animals.
- B.35 Plague of ladybirds, August 1975, and mimicry, October 1975.
- B.36 Letter to Miriam Rothschild, 10 November 1975, chiefly *re* insect development.



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