



Smithsonian

*National Museum of American History Kenneth E. Behring Center*

## Guide to the B.H. Worsley Collection

NMAH.AC.0237

Don Darroch

1986-10-09

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# Table of Contents

Collection Overview .....	1
Administrative Information .....	1
Arrangement.....	2
Scope and Contents.....	2
Biographical / Historical.....	1
Names and Subjects .....	2
Container Listing .....	3
Series 1: Notes/meeting announcements, 1946 - 1959.....	3
Series 2: Publications, 1947 - 1955.....	4

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	B.H. Worsley Collection
<b>Date:</b>	1946-1959
<b>Identifier:</b>	NMAH.AC.0237
<b>Creator:</b>	Worsley, Beatrice H., Dr. (associate professor) (Author)
<b>Source:</b>	National Museum of American History (U.S.). Division of Mathematics (Collector)
<b>Extent:</b>	0.6 Cubic feet (2 boxes)
<b>Language:</b>	English .

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## Administrative Information

### Acquisition Information

Collection donated by The Department of Computing and Information Service, Queen's University, through Dr. Beatrice H. Worsley, 1971.

### Provenance

Collection transferred to the Archives Center from the Division of Mathematics (now Division of Medicine and Science), September 1986.

### Processing Information

Collection processed by Don Darroch, October 1986

### Preferred Citation

B.H. Worsley Collection, 1946-1959, Archives Center, National Museum of American History.

### Restrictions

Collection is open for research.

### Conditions Governing Use

Collection items available for reproduction, but the Archives Center makes no guarantees concerning copyright restrictions. Other intellectual property rights may apply. Archives Center cost-recovery and use fees may apply when requesting reproductions.

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## Biographical / Historical

It represents personal papers of Dr. Beatrice H. Worsley and other documents. All are concerned with early development of automatic digital computers, circa 1946-1959.

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## Scope and Contents

Dr. Worsley's papers include handwritten notebooks, loose notes, memoranda, reprints from her articles in professional journals, and copies of her theses written in fulfillment of the master's and doctor's degree, from MIT and the University of Cambridge, respectively. All of these papers deal with technical and theoretical problems of computer design. Also included are numerous manuals and descriptive materials about them--current models of computers manufactured by IBM and other producers; and proceedings of several conferences of computer specialists.

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## Arrangement

The collection is divided into 2 series

Series 1: Notes/meeting announcements, 1946-1959

Series 2: Publications, 1947-1955

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Computers
- Computers and women
- Education and educators: mathematics and computer science
- Women

Types of Materials:

- Correspondence -- 1930-1950
- Dissertations
- Notebooks
- Proceedings
- Promotional literature
- Publications
- Technical notes
- Theses

Names:

- Massachusetts Institute of Technology
- National Museum of American History (U.S.). Division of Mathematics
- Queen's University, Kingston, Ontario, Canada
- University of Cambridge

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## Container Listing

### Series 1: Notes/meeting announcements, 1946 - 1959

Box 1, Folder 1	Beatrice H. Worsley notebook: "1946-49, Large Scale Digital Computer: Miscellaneous Notes"
Box 1, Folder 1	B. H. Worsley notebook: "Miscellaneous Notes, 1949"
Box 1, Folder 1	B. H. Worsley memo to B. A. Griffith, Toronto Computation Center, "Construction of a Model Differential Analyzer", 1948-09-10
Box 1, Folder 2	Miscellaneous technical notes (mainly on "transcode")
Box 1, Folder 2	National Research Council of Canada publication: "The Transcode Automatic Programme" Ottawa, 1955 (written by B. H. Worsley and J. N. P. Hume)
Box 1, Folder 2	Two envelopes of B. H. Worsley correspondence with foreign and other computer specialists, (also technical notes), circa 1947-1952 Notes: Folder contains correspondence from Alan Turing, 1951.
Box 1, Folder 3	Announcements and summaries of proceedings of technical meetings of computer specialists 1952-1959; also press clippings and photographs
Box 1, Folder 4	Promotional literature of computer manufacturers, 1946-1954

*[Return to Table of Contents](#)*

## Series 2: Publications, 1947 - 1955

Box 2	B. H. Worsley: "A Mathematical Survey of Computing Devices" submitted in partial fulfillment of requirements of MS Degree, MIT 1947
Box 2	"Proceedings of a Symposium on Large-scale Digital Calculating Machinery, January 7-10, 1947" Harvard University Press
Box 2	"Report of a Conference on High Speed Automatic Calculating-Machines June 22-25, 1949" University Mathematical Laboratory, Cambridge (UK)
Box 2	"Programmers' Handbook for Manchester Electronic Computer Mark II" University of Manchester (UK), 1951
Box 2	B. H. Worsley, "On the Second-Order Correction Terms to Values of Gravity Measured at Sea" reprint from Proceedings of Cambridge Philosophical Society, 1952
Box 2	B. H. Worsley, "Serial Programming for Real and Idealised Digital Calculating Machines", submitted in partial fulfillment of requirements of Ph.D., University of Cambridge (UK) May, 1952
Box 2	"Transcode Manual", Computation Centre, Mc Lennan Laboratory, University of Toronto, 1955

*[Return to Table of Contents](#)*