



Smithsonian
National Museum of American History
Kenneth E. Behring Center

Guide to the B.H. Worsley Collection

NMAH.AC.0237

Don Darroch

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Collection Overview

Repository:	Archives Center, National Museum of American History
Title:	B.H. Worsley Collection
Identifier:	NMAH.AC.0237
Date:	1946-1959.
Extent:	0.6 Cubic feet (2 boxes)
Creator:	Worsley, Beatrice H., Dr. (associate professor) Mathematics, Division of (NMAH, Smithsonian Institution).
Language:	English Collection is in English.

Administrative Information

Acquisition Information

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

Provenance

Transferred to the Archives Center from the Division of Mathematics, 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.

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.

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: 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.

Arrangement

The collection is divided into 2 series

Series 1: Notes/meeting announcements, 1946-1959

Series 2: Publications, 1947-1955

Names and Subject Terms

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

Subjects:

Computers
Education and educators: mathematics and computer science

Types of Materials:

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

Names:

Massachusetts Institute of Technology
Mathematics, Division of (NMAH, Smithsonian Institution).
Queen's University, Kingston, Ontario, Canada
University of Cambridge

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, 09/10/48; "Construction of a Model Differential Analyzer"
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 --	Two envelopes of B. H. Worsley correspondence with foreign and other computer specialists, c. 1947-1952 (also technical notes)
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

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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

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