



Smithsonian  
*National Museum of American History*  
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## Guide to the Gordon D. Goldstein Collection

NMAH.AC.0554

John M. Murphy.

2007

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	Gordon D. Goldstein Collection
<b>Identifier:</b>	NMAH.AC.0554
<b>Date:</b>	1948 - 1957
<b>Extent:</b>	2 Cubic feet (6 boxes)
<b>Creator:</b>	Goldstein, Gordon D.
<b>Language:</b>	English
<b>Summary:</b>	Papers relate to Gordon D. Goldstein, a computer engineer and frequent seminar speaker and participant, especially in the fields of linguistics and machine translation.

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## Administrative Information

### Acquisition Information

The collection was donated by Gordon D. Goldstein on December 13, 1978.

### Provenance

The collection was transferred from the Division of Information, Technology and Communication to the Archives Center on June 28, 1996.

### Related Materials

#### **Materials in Other Organizations**

The Charles Babbage Institute, Center for the History of Information Processing houses the Gordon D. Goldstein Papers, 1950-1979, <http://special.lib.umn.edu/findaid/xml/cbi00068.xml>

Archives Center, National Museum of American History houses the Computer Oral History Collection, 1969-1973, 1977 [http://invention.smithsonian.org/resources/fa\\_comporalhist\\_index.aspx](http://invention.smithsonian.org/resources/fa_comporalhist_index.aspx)

### Processing Information

Processed by John M. Murphy, intern, August 1998; supervised by Alison Oswald, archivist.

### Preferred Citation

Gordon D. Goldstein Collection, Archives Center, National Museum of American History, Smithsonian Institution.

## Restrictions

The collection is open for research use.

## Conditions Governing Use

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

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## Biographical / Historical

Born in 1917, Gordon D. Goldstein graduated from Clarkson College of Technology with a bachelor's degree in electrical engineering. In 1941, Goldstein took a job with the Army Signal Corp as a civilian inspector of radio and navigation equipment. After leaving the Army Signal Corp, Goldstein took a job as development engineer at the Washington Institute of Technology where he was employed until 1950. From 1950 to 1951 he worked as chief engineer with computers for the Census Bureau in Philadelphia.

In 1951, Goldstein left the Census Bureau and took a job with the Navy Department. During his tenure there, Goldstein worked in three offices or divisions: the Naval Ordnance Laboratory (electronics scientist), the David Taylor Model Basin's Applied Mathematics Laboratory, and the Office of Naval Research (ONR), Information Systems Program where he was involved with applications of UNIVAC I. Goldstein worked in the Office of Naval Research from 1956 until his retirement in 1980.

### Sources

Berkeley, Edmund C., ed. *Who's Who in Computers and Data Processing 1971: A Biographical Dictionary of Leading Computer Professionals*. New York: The New York Times Book and Educational Division, 1971.

Gordon D. Goldstein Papers, 1950-1979. Charles Babbage Institute: Center for the History of Information Processing.

Williams, Michael R. *A History of Computing Technology*. Los Alamitos, California: IEEE Computer Society Press, 1997.

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## Scope and Contents

The Goldstein Collection documents an interesting and important period in the development of the early computer industry. Many of the items in the collection are technical in nature; others, however, provide an interesting perspective on the development of post-war American culture. Items in the collection include design and training materials, operational manuals, professional literature, advertisements and promotional items, photographs, business and office documentation, and conference and seminar materials.

The collection is divided into five series. The first three series correspond to Goldstein's employment history; the fourth series includes notes and minutes from UNIVAC and computer conferences attended by Goldstein; and the fifth series contains general computer publications and computer advertisements. Of particular interest in the last series is a copy of the 1954 *Report to the Association for Computing Machinery: First Glossary of Programming Terminology*. This item was edited by Grace Murray Hopper.

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## Arrangement

The collection is arranged into 5 series.

**Series 1, National Bureau of Standards, Electronic Computers Section/Standards Eastern Automatic Computer, 1948-1953**

**Series 2, U.S. Navy/Applied Mathematics Laboratory, 1950-1957**

**Series 3, UNIVAC-Remington Rand Corporation/Eckert-Mauchly Computer Corporation, 1948--956**

**Series 4, UNIVAC Conferences, 1950-1956**

**Series 5, Publications and Competitor Materials, 1950-1955**

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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
- Seac computer
- Systems engineering
- Univac computer

Types of Materials:

- Design drawings
- Technical manuals -- 20th century

Names:

- ENIAC.
- Electrical Numerical Integrator and Computer (ENIAC).
- Remington Rand.

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## Container Listing

### Series 1: National Bureau of Standards, Electronic Computers Section/Standards Eastern Automatic Computer, 1948 - 1953

- |                   |  |
|-------------------|--|
| Box 1, Folder 1-2 | High speed circuits technical planning group meetings , 1948 December 15-1950 April 27   |
| Box 1, Folder 3   | Bureau of Ships Analog Computer (BUSAC'S) method for addition and subtraction , 1950 January 23  |
| Box 1, Folder 4   | Engineering and operational specifications for Bureau of Standards Automatic Computer , 1950 June  |
| Box 1, Folder 5   | Notes on computer seminar , 1950 October 8-1951 January 25   |
| Box 1, Folder 6   | Memoranda , 1950 July-1951 March   |
| Box 1, Folder 7   | Graduate School of the National Bureau of Standards, electron computers course and pulse circuitry and digital computers , 1950 September-1951 May |
| Box 1, Folder 8   | Reprint from the National Bureau of Standards publication, <i>Technical News Bulletin</i> , SEAC demonstrates high reliability , 1951 May          |
| Box 1, Folder 9   | FOSDIC, A pre-input data recorder for computers, 1953 December   |

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## Series 2: U.S. Navy/Applied Mathematics Laboratory, 1950 - 1957

### Subseries 2.1: Operational Manuals and Training Materials, 1952 - 1956

- Box 1, Folder 10            The defense calculator, notes on , 1952 March
- Box 1, Folder 11            Specifications for automatic plotter to be used with UNIVAC computing system , 1954 March
- Box 1, Folder 12            High speed printer, 1954 December 15-1956 March 1

### Subseries 2.2: Testing and Maintenance Documentation, 1953 - 1956

- Box 1, Folder 13            Percent efficiency chart and AMS summary of UNIVAC maintenance , 1953 January-July
- Box 1, Folder 14            Planning and programming division policies , 1954 October
- Box 1, Folder 15            Programming procedures and planning and programming division policies, 1956 May

### Subseries 2.3: Professional Literature, 1956 - 1957

- Box 1, Folder 16            U.S. Naval Proving Ground, Dahlgren, Virginia, computation and ballistics department, 1955 January
- Box 1, Folder 17            Report on the progress of the Bureau of Ships Computer Laboratory. Talk Given by Dr. Harry Polachek at the chief's council, Bureau of Ships, 1956 February 7
- Box 1, Folder 18            Proceedings of progress report, 1953-1956. Engineering and Development Division. Applied Mathematics Laboratory. Edited by Gordon D. Goldstein, 1957 May

### Subseries 2.4: Memoranda, 1952 - 1956

- Box 1, Folder 19-20        Memoranda, 1952 - 1956

### Subseries 2.5: Office Humor, 1952

- Box 1, Folder 21            Light touch folder, 1952 May-December

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## Series 3: UNIVAC-Remington Rand Corporation/Eckert-Mauchly Computer Corporation, 1948 - 1956

### Subseries 3.1: Design Materials, 1948 - 1952

Box 1, Folder 22	Eckert-Mauchly Computer Corporation Diagrams, 1948 - 1950
Box 1, Folder 23	Design Drawings , 1949 - 1951
Box 2, Folder 1	Fuse Panel, UNIVAC Blowers and Uniservo Primary Power Diagram, 1950 April
Box 2, Folder 2	Terms and Symbols Used In UNIVAC Diagram , 1950 August
Box 2, Folder 3	Control Circuits and Timing Chart, 1950
Box 2, Folder 4-7	Book of Eckert-Mauchly Computer Corporation Diagrams, 1950 - 1952
Box 2, Folder 8	Function Signals, undated

### Subseries 3.2: Operational Manuals and Training Materials, 1949 - 1956

Box 2, Folder 9	Floating decimal point subroutines for addition, subtraction, multiplication, and division , 1949
Box 2, Folder 10	UNIVAC engineering aids , 1950 May
Box 2, Folder 11	Basic operation cycle - UNIVAC and breakdown of UNIVAC instructions , 1950 June
Box 2, Folder 12	Preliminary description of the UNIVAC for Eckert-Mauchly Computer Corporation , 1950 July
Box 3, Folder 1-5	UNIVAC operational notes , 1950 August
Box 3, Folder 6	Instructional booklet containing miscellaneous items pertaining to the operation of the UNIVAC Computer , 1950
Box 3, Folder 7	<i>Introduction to Computers</i> , prepared by the training section, Electronic Computer Department, Remington Rand , 1950
Box 3, Folder 8	A.I. appendix describes the operation of typical electronic circuits which make up the logical elements shown on the block diagrams , 1951 September-October



- Box 3, Folder 9 UNIVAC system pulse code instructions , 1951
- Box 3, Folder 10 Operation codes , 1952 March
- Box 3, Folder 11 *UNIVAC II: A Preliminary Manual* , 1955 June
- Box 3, Folder 12 Servo Systems alignment procedure: UNIVAC Training School, Philadelphia , 1955 December
- Box 3, Folder 13 *Manual of Operation: The Central Computer of the UNIVAC System*, 1956
- Box 3, Folder 14 Magnetic tape to tape converter, undated

### Subseries 3.3: Testing and Maintenance Documentation, 1950 - 1956

- Box 4, Folder 1 UNIVAC maintenance lectures, 1950 January-1951 October
- Box 4, Folder 2 Replacement rates of vacuum tubes and crystal diodes in Mark III Calculator , 1951 May-1952 September
- Box 4, Folder 3 UNIVAC test equipment and special tools , 1952 June
- Box 4, Folder 4 Recirculation amplifier alignment in the DC test bench , 1952 September
- Box 4, Folder 5 The definitions of service record headings for UNIVAC , 1952 October
- Box 4, Folder 6 Test of power supply HUM measurements, 1952 September
- Box 4, Folder 7 AC power distribution , 1953 March
- Box 4, Folder 8 Equipment and tools, Eckert-Mauchly design , 1953 May
- Box 4, Folder 9 Long tank standby and overheat microswitch adjustment , 1953 May 27
- Box 4, Folder 10-12 Service routines index , 1952 January-1954 October
- Box 4, Folder 13 UNIVAC tape-to-card converter, 1954 October
- Box 4, Folder 14 Color coding of 1N48 germanium crystal diodes , 1956 August
- Box 4, Folder 15 General instructions for maintenance checks , undated

- Box 6, Folder 1            Index to the troubleshooting block diagram book for UNIVAC central computer group , undated
- Box 6, Folder 2            Index to drawings and figures, volume three , undated
- Box 4, Folder 16           Tool and test equipment for a UNIVAC installation , undated
- Box 4, Folder 17           UNIVAC spare parts, local procurement, out of town procurement, chokes, coils, pulse transformers, mechanical parts and assemblies, short mercury tanks with chassis, UNIVAC pulse transformers, coils, delay lines, and chokes, and UNIVAC number one," invoices, undated

#### Subseries 3.4: Advertisements and Promotional Materials, 1950 - 1956

- Box 4, Folder 18-19        Advertisements and promotional materials , 1950 - 1956
- Box 4, Folder 20           Photographs of UNIVAC system, undated

#### Subseries 3.5: Publications, 1954 - 1956

- Box 4, Folder 21           *The Programmer*, 1954 - 1956  
[Image\(s\)](#)
- Box 4, Folder 22           *The UNIVAC System: A 1954 Progress Report*, 1954

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## Series 4: UNIVAC Conferences, 1950 - 1956

Box 5, Folder 1	Association for Computing Machinery , 1950 September
Box 5, Folder 2	Association for Computing Machinery , 1951 March
Box 5, Folder 3	UNIVAC Maintenance Conference , 1954 May
Box 5, Folder 4	UNIVAC Servicing Engineers Conference, 1954 October
Box 5, Folder 5	UNIVAC System Engineers Conference , 1955 June
Box 5, Folder 6-7	UNIVAC System Engineers Conference, 1956 June

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## Series 5: Publications and Competitor Materials, 1950 - 1955

Box 5, Folder 8      Articles related to UNIVAC , 1952 - 1955  
[Image\(s\)](#)

Box 5, Folder 9-10      General computer literature, 1950 - 1954

Box 5, Folder 11-12      Competitor materials, 1952 - 1955

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