



Smithsonian

National Museum of American History Kenneth E. Behring Center

Guide to the Gordon D. Goldstein Collection

NMAH.AC.0554

John M. Murphy.

2007

Archives Center, National Museum of American History
P.O. Box 37012
Suite 1100, MRC 601
Washington, D.C. 20013-7012
Business Number: Phone: 202-633-3270
Fax Number: Fax: 202-786-2453
archivescenter@si.edu
<https://americanhistory.si.edu/archives>

Table of Contents

Collection Overview	
Administrative Information	1
Biographical / Historical	2
Scope and Contents	2
Arrangement	2
Names and Subjects	
Container Listing	
Series 1: National Bureau of Standards, Electronic Computers Section/Standards Eastern Automatic Computer, 1948 - 1953	4
Series 2: U.S. Navy/Applied Mathematics Laboratory, 1950 - 1957	5
Series 3: UNIVAC-Remington Rand Corporation/Eckert-Mauchly Computer Corporation, 1948 - 1956	6
Series 4: UNIVAC Conferences, 1950 - 1956	9
Series 5: Publications and Competitor Materials, 1950 - 1955	10

Collection Overview

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

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 (now Division of Medicine and Science) 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

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

Collection is open for research but is stored off-site and special arrangements must be made to work with it. Contact the Archives Center for information at archivescenter@si.edu or 202-633-3270.

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.

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.

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.

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

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.

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, Technical News Bulletin, SEAC demonstrates high reliability, 1951 May
Box 1, Folder 9	FOSDIC, A pre-input data recorder for computers, 1953 December

[Return to Table of Contents](#)

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 |
|------------------|---------------------------------------|
-

[Return to Table of Contents](#)

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	Introduction to Computers, 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](#)

Box 4, Folder 22 The UNIVAC System: A 1954 Progress Report, 1954

[Return to Table of Contents](#)

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

[Return to Table of Contents](#)

Series 5: Publications and Competitor Materials, 1950 - 1955

Box 5, Folder 8	Articles related to UNIVAC, 1952 - 1955
Box 5, Folder 9-10	General computer literature, 1950 - 1954
Box 5, Folder 11-12	Competitor materials, 1952 - 1955

[Return to Table of Contents](#)