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**MASSACHUSETTS INSTITUTE OF TECHNOLOGY.
SERVOMECHANISMS LABORATORY.**

Records, 1940-1959

Archival Collection - AC 151

170 manuscript boxes, 5 oversized flat boxes
56 cubic feet
Accession numbers: 1979-13, 1980-17, 2002-77, 2003-37

Processed: 1987, 2002-2004
By: Elizabeth Andrews, Judith Janec, Denis Meadows

ACCESS

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HISTORICAL NOTE

The Servomechanisms Laboratory was established at MIT in 1940 under the direction of Gordon S. Brown, then assistant professor of electrical engineering. The laboratory grew out of the Department of Electrical Engineering's increasing attention in the fall of 1939 to servomechanisms, specifically fire control (gun-positioning instruments) in response to a request from the U.S. Navy for a special course for naval fire control officers assigned to MIT. Harold Hazen, head of the department, was also Gordon Brown's doctoral advisor and asked him to develop the course. The 1939 MIT Course Bulletin lists for the first time two elective classes (6.605 and 6.606) titled Theory and Applications of Servo Mechanisms with Gordon S. Brown as instructor.

During World War II the laboratory's teams of research scientists and graduate students (who also produced thesis projects from their work) undertook research and development of feedback control systems for the U.S. government (Navy Ordnance, Army Ordnance, and the National Defense Research Committee) as well as commercial contractors. Research included servo-control systems for advanced radar used on U.S. Navy ships. Laboratory director Gordon Brown served as a consultant to the Sperry Gyroscope Company as well as to the War Department.

After World War II ended in 1945, the laboratory's newly created dynamic analysis and control group, directed by Albert C. Hall, continued to develop automated control systems for U.S. Navy guided missiles. In 1946 this group separated to form the Dynamic Analysis and Control Laboratory at MIT until closing in 1958.

Early laboratory research, originating in 1944 as the ASCA (Aircraft Stability and Control Analyzer) project to develop a flight training simulator, was directed by Jay W. Forrester with the assistance of Robert R. Everett. The research focus was revised in 1946 to include the design and construction of a high-speed digital computer, and the project was renamed Project Whirlwind. In 1951 Project Whirlwind and its staff were separated from the Servomechanisms Laboratory and assigned to the newly created Digital Computer Laboratory, still under the direction of Forrester. Classified research related to development and use of Whirlwind in research projects was simultaneously carried out in division 6 of the newly formed Lincoln Laboratory. Jay Forrester was director of both the Digital Computer Laboratory and Division 6, and Robert Everett served in both as assistant director.

Other major postwar efforts of the Servomechanisms Laboratory included the development of automatic controls for the reactor rods and instrumentation system of the first peacetime nuclear reactor, constructed in the late 1940s by the Atomic Energy Commission at the Brookhaven National Laboratory.

A significant postwar project that began in 1949 and continued and evolved through the 1950s was the work that led to numerical control of machine tools. Under a contract with the Parsons Company of Michigan, William M. Pease and James O. McDonough designed an experimental numerically-controlled milling machine which received

directions through data on punched paper tape. The first working model of a continuous-path numerically-controlled milling machine was demonstrated in 1952. Further research was then carried out under the sponsorship of the U.S. Air Force. Subsequently, the laboratory's Computer Application Group, led by Douglas T. Ross, developed the Automatically Programmed Tool Language (APT), an easy-to-use, special purpose programming language. Eventually, APT became the world standard for programming computer-controlled machine tools. The Servomechanisms Laboratory staff actively promoted the introduction and use of numerical control for industrial processes. It sponsored conferences and summer sessions aimed at industry personnel. The development of numerical controls had a profound impact on industry as with the introduction of automated controls it revolutionized the machine tool industry. In 1958, further development of the APT system was turned over to a coordinating group sponsored by the Aircraft Industries Association.

Research activities of the Servomechanisms Laboratory broadened in the late 1950s, and a decision was made in 1959 to change the name of the laboratory to the Electronic Systems Laboratory. The laboratory continued to report to the Department of Electrical Engineering until March 1978, when it became an inter-departmental laboratory reporting to the provost. In September 1978 it was renamed the Laboratory for Information and Decision Systems (LIDS).

Directors of the Servomechanisms Laboratory:

Gordon S. Brown, 1939-1952

William M. Pease, 1952-1953

J. Francis Reintjes, 1953-1959 (1959-1974, director of the successor Electronic Systems Laboratory)

More detailed accounts of the research activities of the Servomechanisms Laboratory can be found in the following publications:

A Century of Electrical Engineering and Computer Science at MIT, 1882-1982, by Karl L. Wildes. Cambridge, Mass.: MIT Press, 1985. Chapters 14 and 17

Numerical Control: Making a New Technology, by J. Francis Reintjes. New York: Oxford University Press, 1991.

Q.E.D.: M.I.T. in World War II, by John E. Burchard. New York: J. Wiley, 1948.

PROVENANCE NOTE

Files in Series I were transferred to the MIT Institute Archives and Special Collections by the archivist of the MITRE Corporation in 1979. Records in Series II were transferred internally at MIT from the Laboratory for Information and Decision Systems (LIDS) in 2002. Computation notebooks in Series III were transferred from LIDS in 1980 and were originally housed with records of the Electronic Systems Laboratory.

SCOPE AND CONTENT NOTE

ARRANGEMENT

Project reports can be found in both Series I and II. Files kept by Robert R. Everett and transferred to the Institute Archives from MITRE Corporation in 1979 were kept together as Series I. Other project files, transferred from Laboratory for Information Systems and Design in 2002, are designated as Series II.

Project files in Series II are arranged in the order in which they were kept by the laboratory, by project number assigned by the MIT Division of Industrial Cooperation (DIC). Numbers are assigned chronologically campus-wide as grant contracts are signed, so Series II files are roughly in chronological order.

Detailed engineering drawings and wiring diagrams compiled for research project reports are located in Series II, boxes 28, and 81-85, and can be matched to reports by project number.

A large set of laboratory computation books created by graduate students and laboratory staff was transferred to the Archives in 1980. Books dated from 1940 to 1959 constitute Series III of this collection. The original alphabetical arrangement by author, existing at transfer, has been maintained. A small number of computation books relating to the numerical control project were not transferred in 1980 but were part of the transfer of files in 2002. Therefore, researchers should check Series II, boxes 26-27 and 52-53, for computation books relating to project 6694, numerical control, that were transferred in 2002.

WORLD WAR II

The Servomechanisms Laboratory's beginning years, 1940-1945, coincide with World War II and are partially documented in Series I, files collected by staff member Robert Everett. Memos, graphs, drawings, and final reports relating to research about and application of feedback control to automate navy and army gun control systems, and development of servo-controls for advanced radar systems are the focus of the series. Also included in Series I are reports and writings of George Newton, Donald Campbell, H. Tyler Marcy, and other research staff. The mixture of basic research and war-time applications is also represented in a fuller set of memos, technical reports, and writings in the first five boxes of Series II. Researchers interested in war-time laboratory projects should check both Series I and Series II. Laboratory computation books contain research notes for war-time projects; as books are arranged alphabetically, check the list for dates 1941-1945 and projects numbered 6409 or lower.

OPERATIONAL FLIGHT TRAINER/PROJECT WHIRLWIND

Records covering the time span 1947-1954 document one of the laboratory's major postwar projects, which was directed by Jay Forrester assisted by Robert Everett (project 6345).

The project, originally called the Aircraft Stability and Control Analyzer Project (ASCA) and also known as the "operational flight trainer," was in development for the Bureau of Aeronautics, U.S. Navy. As the project research moved ahead, its focus moved from the simulator to the development of digital computing and the production of one of the first high-speed digital computers. The project was renamed "Whirlwind." Many Whirlwind engineering notes, memos, and summary reports are found in boxes 5-10 of Series II. A useful list, January 1945-April 1952 of R-series, M-series, E-series, and C-series project documents, is located in box 10 of Series II. Other records relating to Whirlwind can be found in two archival collections, the MIT Digital Computer Laboratory, AC 362, and Project Whirlwind Collection, MC 665.

BROOKHAVEN NUCLEAR REACTOR

Researchers interested in the history of nuclear reactors will also find the Servomechanisms Laboratory collection useful. An important postwar project well represented in Series II project files is the Brookhaven Nuclear Reactor Project (#6546) headed by William Pease and Truman Gray. The Servomechanisms Laboratory designed and built controls for the reactor rods and instrumentation of the Brookhaven reactor, the first peacetime nuclear reactor. Principal documents are engineering memos and reports dating from 1947 to 1949. Series III, computation books, also contains laboratory notes for project 6546.

NUMERICAL CONTROL OF MACHINE TOOLS

The development of numerical control systems (1949-1959, contract numbers 6694 and 6873) revolutionized the machine tool industry. Research on numerical control development and applications has by far the most extensive and richest documentation in the collection, totaling 30 boxes of reports, computation books, engineering reports, and memos, as well as 5 boxes of technical drawings. Researchers should check Series II, boxes 26-27 and 52-53, for computation books relating to project 6694, numerical control. Information about the first demonstration of the numerically-controlled milling machine held in September 1952 can be found in Series II, box 37.

Numerical control research was first sponsored by Parsons Corporation, Michigan (project 6694), then, starting in 1952, by the U.S. Air Force, Air Material Command (project 6873). Numerical control research information is in the following boxes of Series II: boxes 26-28, 38, 64, and 81-85. Because Series II is arranged by project number, information about numerical control research is separated within the list, so both project numbers should be checked. Within the subset of project 6873, files are arranged alphabetically by title. It is advisable to browse all file titles numbered 6873 to

understand the full complement of research activities. A summary, project statements, and history can be found in boxes 43 and 48, and the final report in box 85.

AUTOMATIC PROGRAMMING SYSTEMS

The later phase of numerical control research in the middle 1950s was done by the laboratory's Computer Application Group, led by Douglas T. Ross, to develop the Automatically Programmed Tool Language (APT) for the introduction of the APT manufacturing system. APT programming manuals and development reports are located in Series II, boxes 32-35.

OTHER

Much of the research in the Servomechanisms Laboratory was carried out by graduate students as part of their thesis work. A list of graduate theses covering the years 1937-1950, located in Series II, box 80, offers information about thesis projects, and the computation books constituting Series III contain data for many different thesis projects. The Institute Archives retains a copy of all master and doctoral degree theses, accessible by name of student or advisor by searching the MIT Libraries' online catalog.

Economic evaluations of the potential application of research products is located in box 38, Series II, and texts and documents about the summer course for industry personnel (1954-1955) are in Series II, boxes 41 and 42. Patents can be found in box 45 of Series II.

RELATED COLLECTIONS

As the work of the laboratory broadened in scope, its name was changed in 1959 from Servomechanisms Laboratory to Electronic Systems Laboratory. Records of the Electronic Systems Laboratory constitute a separate but closely related collection (AC 528) and should be consulted by those studying research projects conducted in the mid-to-late 1950s.

Other related manuscript and archival collections in the Institute Archives:

- Gordon S. Brown papers, MC 24 (includes a 1985 oral history)
- Walter Rosenblith papers, MC 55 (includes a 1982 oral history of Gordon Brown, Julius Stratton, and Victor Wiesskopf)
- Computers at MIT Oral History Collection, 1976-1977, MC 131 (Robert R. Everett, Jay W. Forrester, Harold Hazen)
- Jay Forrester papers, MC 439 (includes a 1975 oral history)
- Harold Hazen papers, MC 106
- George Newton papers, MC 239
- J. Francis Reintjes papers, MC 489
- John E. Ward papers, MC 567
- MIT Digital Computer Laboratory records, AC 362
- Project Whirlwind Collection, MC 665

- MIT Office of Sponsored Programs, grant and contract records, AC 157

Records at other institutions:

- University of Minnesota, Charles Babbage Institute, oral histories
- American Institute of Physics, Whirlwind Reports collection

SERIES LIST

- SERIES I. PROJECT FILES OF ROBERT R. EVERETT, 1941-1947
 SERIES II. PROJECT FILES, 1940-1959
 SERIES III. COMPUTATION NOTEBOOKS, 1941-1959

SERIES DESCRIPTIONS

SERIES I. PROJECT FILES OF ROBERT R. EVERETT, 1941-1947

This series consists of working files, including technical reports, diagrams, parts lists, and progress reports and memos for some of the war-generated projects in the Servomechanisms Laboratory, including the following projects listed by DIC (Division of Industrial Cooperation) project number:

6179 Fuze Setter

6043 Hydraulic Transmissions, A-2 antenna

6152 Hydraulic Transmissions, oil gear

6469 Power Drives

6041 Remote Control Systems

6047 Remote Control Systems

SERIES II. PROJECT FILES, 1940-1959

This series contains project files for Servomechanisms projects and includes correspondence, technical reports, engineering reports, memoranda, drawings, computation books, contracts, and final reports. Series II is arranged by Division of Industrial Cooperation project number as this was the order of material on transfer to the Archives. Information about numerical control research is separated in the list since it has two different DIC project numbers (6694 and 6873). Within the subset of project 6873, files are arranged alphabetically by title.

SERIES III. COMPUTATION BOOKS, 1941-1959

This series consists of computation books which were used to record results and ideas developed from Servomechanisms Laboratory research. The information in the computation books was important for MIT patent applications and patent defense; they were held by the department in one alphabetical order by researcher name after a project ended or a staff member left the project. Computation books kept by graduate students in the laboratory often provided background for a formal thesis. Several different staff members or students often worked on one grant project, so multiple books may exist for any project.

Series I.

Box

**SERIES I. MIT SERVOMECHANISMS LABORATORY
PROJECT FILES OF ROBERT R. EVERETT, 1941-1947**

Projects

- 1 Fuze Setter (DIC #6179). "Tests and Recommended Modifications of the T 33 Fuze Setter," 1943
- Hydraulic Transmissions, A-2 Antenna. (DIC #6043)
- Dodd, Stephen H., Jr.
- 1 Design and Test of a Hydraulic Transmission, 1945
- 1 Memorandums, 1943-1944
- 1 Notes and Graphs of the XP-1 and XP-2 Variable Stroke Axial Pump, n.d.
- 1 Memorandums B-T, 1943-1945
- Pilot Model SG-3 Servos
- 1 Drawings, 1944
- 1 List of Drawings as Built by Westinghouse Brake, 1944
- 1 Operating Instructions, 1944
- 1 Parts Lists, 1944
- 1 Summary of the Engineering Data of the Antenna Hydraulic Servo Units Designed for the Raytheon Manufacturing Co., 1945
- 2 Weekly Work Reports from Division T, 1943-1944
- 2 Hydraulic Transmissions, Oilgear (DIC #6152). Automatic Control Characteristics of a .682 Cubic Inch Per Revolution Oilgear Hydraulic Transmission, 1943
- 2 Power Drives (DIC #6469). "Power Drive for Navy Wing-Tip Turret," 1947 Remote Control Systems

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(DIC #6041)

- 2 Description and Operating Instructions of the Sperry MIT Automatic Remote Control Systems for the T-36 Gun Motor Carriage, 1942
- 2 Description and Operating Instructions of the Remote Control System T-8 for the T-62 Gun Motor Carriage, 1942

(DIC #6047)

- 2 Description and Operating Instructions of the Sperry Automatic Remote Control System T-15 for 37 mm and 40 mm Carriage, 1942
- 2 Installation Instructions for the T-29 Director with the T-15 Remote Controls, 1942
- 2 "Studies on the Remote Control Systems M-1 and M-5," 1942

Reports

- 2 Ahrendt, W. R. *Analysis of Resistance - Capacitance Null Circuits*, 1945
- 2 Campbell, Donald P. *A Discussion of the Decibel-Log Frequency Methods of Analysis and Synthesis of Automatic Control System Behavior*, 1945
- 2 Newton, George C., M.I.T. Servomechanisms Laboratory, Council on Symbols. *Manual of Schematic Diagrams*, 1941
- 2 Nichols, Nathaniel B. *Hydraulic Transmission Theory*, 1942
- 2 Marcy, H. Tyler. *Parallel Circuits in Servomechanisms*, 1946
- 2 Marcy, H. Tyler and Irving H. Van Horn, Jr. *Factors Limiting the Load Inertia of a Servomechanism*, 19-2
- 2 Van Horn, Irving H., Jr. *Studies of .341 Cubic Inches Per Revolution Oilgear Hydraulic Transmission and Stroke Control*, 1946

Series II.

Box**SERIES II. PROJECT FILES, 1940-1959**

- 1 Project 5955A, Report, "The Development of MIT Torque Motors for the Period March 1941 to March 1942," 1941-1942
- 1 Project 5955A, Memorandum, "Tests to Determine Characteristics of an Hydraulic Power Transmission," 24 June 1941
- 1 Project 6041, Report, "Automatic Remote Control Systems for the T-35 Gun Motor Carriage," 11 August 1942
- 1 Project 6041, Report, "Description and Operating Instructions for Remote Control System T-8 for the T-62 Gun Motor Carriage," 23 November 1942
- 1 Project 6043, Report, "SG3 Antenna Stabilizing System, Advanced Technical Release," April 1944
- 1 Project 6043, Report, "Antenna Hydraulic Servo Units Designed for Raytheon Manufacturing Company," March 1945
- 1 Project 6043, Report, "Design and Test of a Hydraulic Transmission for Raytheon Manufacturing Company," 1945
- 1 Project 6043A, Report, "Preliminary Report – Investigation of Causes of 'Spoking' in Raytheon Remote PP1 (VD-2)," 10 October 1944
- 1 Project 6047, Memorandum, "Cold Tests on Two Oil Units for 40 M/M Gun," 29 July 1942
- 1 Project 6047, Report, "Description and Operating Instructions – Sperry MIT Automatic Remote Control System T-15 for the 37 MM and 40 MM Cartridges," 31 August 1942
- 1 Project 6047, Report, "Supplement to Instruction Guide – Remote Control System M-1," 28 September 1942
- 1 Project 6047, Report, "Report of Studies on the Remote Control Systems M-1 and M-5," November 1942
- 1 Project 6047, Report, "Installation Instruction for the T-29 Director with the T-15 Remote Controls," 7 December 1942
- 1 Project 6047, Report, "Report on Remote Control System T-15," 1 June 1943

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- 2 Project 6060, Technical Note 57-159, "Gradient Methods for the Computer Solution of System Optimization Problems," September 1957
- 2 Project 6097, Report, "Instruction Manual – Servomechanism for 90 MM Combination Fuze-Setter, Rammer T7," 16 February 1943
- 2 Project 6117, Report, "Description and Operating Instructions for the Oil Gears M3B1 When Used with the Remote Control System M9 or M10," 1 March 1943
- 2 Project 6117, Report, "Specifications and Test Procedure for Oil Gear M3," 5 May 1943
- 2 Project 6132, Report, "Description and Operating Instructions for the Remote Control System T6E1 When Used with the 75 MM Gun Carriage T8E1," 16 March 1943
- 2 Project 6145, Report, "Description and Operating Instructions for Control System and Oil Gears M3B1 as Modified for T-65-1 Gun Carriage, Preliminary," n.d.
- 2 Project 6145, Report, "Description and Operating Instructions for Control System and Oil Gears M3B1 as Modified for T-65 Gun Carriage Motor," October 1943
- 2 Project 6146, Report, "On-Carriage Manually-Controlled Power Drive System for a 40 MM Antiaircraft Gun Mount," 25 November 1943
- 2 Project 6146, Report, "Notes on Installation and Operation of 7-10 Drive Controller as a Local Control System for 40 MM. Gun M2 with Oil Gears M3," March 1944
- 2 Project 6151, Report, "Report on DIC Project 6151," 28 September 1943
- 2 Project 6152, Report, "Automatic Control Characteristics of a 0.682 Cubic Inch Per Revolution Oilgear Hydraulic Transmission," June 1943
- 2 Project 6152, Report, "Variable-Speed A-C Operation of a Stunt Motor," October 1943
- 2 Project 6152, Report, "Notes on Materiel – Description and Operating Instructions for the 'Servotraverse' Mechanism for Medium Tanks M4 and Modifications," December 1943

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- 2 Project 6152, Report, "Experimental and Design Studies of the Servotraverse Mechanism for Medium Tanks M4 and Modifications," February 1944
- 3 Project 6168, Report, "Development of a Servo Control System for Guided Missiles – Preliminary Report," 2 July 1945
- 3 Project 6168, Report, "Development of a Servo Control System for Guided Missiles," 31 October 1945
- 3 Project 6172, Report, "Description and Operating Instructions for Experimental Navy Quad Mount Director," 23 July 1945
- 3 Project 6175, Report, "Report on Tests on Army Director Mount T75 Equipped with T30B1, T30B2 and T4E1 Sights," 12 November 1943
- 3 Project 6179, Report, "Tests and Recommended Modifications of Fuze Setter, 733," 21 June 1943
- 3 Project 6182, Report, "Report on Work Performed Under OSRD Contract OEMsr 1167," 11 July 1944
- 3 Project 6198, Report, "Description and Operating Instructions for H2K Indicator Servo," April 1944
- 3 Project 6206, Report, "Description and Operating Instructions for An/APS-I Indicator Servo," 3 February 1944
- 3 Project 6208, Report, "Life Test Studies on Oil Gears M3B1," November 1943
- 3 Project 6208, Report, "Installation and Alignment of Oil Gears M3 – 40MM, Antiaircraft Gun Material M2," 17 January 1944
- 3 Project 6209, Report, "Description and Operating Instructions for Drive Controller T-14 and Modified Oil Gears M3B1 on T-65-E1 Gun Motor Carriage," December 1943
- 3 Project 6209, Report, "Description and Operating Instructions for Drive Controller T-14 and Modified Oil Gears M3B1 on Gun Mount T-98," March 1944
- 3 Project 6219, Report, "Report of Test on Slide Block Bearing Assembly of M3 Oilgear," 15 January 1944
- 3 Project 6219, Report, "Description of Local-Remote Power Control System for 40 MM. Gun Mount M3," August 1944

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- 3 Project 6221, Report, "Investigation of Power Drives for Gun Director, MK 49," May 1945
- 4 Project 6234, Report, "Description of Servo-Stabilized 40 MM. Power Drive for Single 40 MM. Gun Mount M3," August 1944
- 4 Project 6234, Report, "Report on Development of Servo Stabilized Drive for Single 40 MM Gun Mount and Adaptation of the Drive to Remote Control," August 1945
- 4 Project 6234, Report, "Performance Specifications for Servo Stabilized 40 MM. Power Drive, " 2 October 1945
- 4 Project 6235, Report, "Report on the Investigation of Field Troubles Encountered in Fuze Setter Amplifier M1A1," 6 July 1945
- 4 Project 6248, Report, "Feasibility of an On-Carriage Lead-Computing Sight for the 90 MM Antiaircraft Gun," September 1944
- 4 Project 6256, Report, "Description and Operation of the Stabilized Damper System and the Stabilized Power Tracking System for Handstand Directors," 29 January 1945
- 4 Project 6269, 6270, 6271, Report, "40 MM Gun Carriage M241 Equipped with MK 14 Gun Sight, T23 Drive Controller, T1E1 Target Selector, and an M3E1 Azimuth Oil Gear," 20 June 1945
- 4 Project 6288, Report, "Specifications for Pilot Models of Servotraverse Mechanism, Model #2 for the Heavy Turret," 20 January 1945
- 4 Project 6288, Report, "Requirements of a Tank Stabilization System," 6 March 1945
- 4 Project 6288, Report, "Description of Stroke Control for Elevating Mechanism," 14 September 1945
- 4 Project 6288, Memorandum, "Compensatory Network for Power Cylinder Elevating Mechanism," 6 January 1946
- 4 Project 6288, Report, "Description and Operating Instructions for M.I.T. Fire Control System for the Heavy Tank T29," May 1946
- 4 Project 6288, Report, "The Open Cycle Frequency Response Tests of the Heavy Tank T29 Elevating Mechanism," 13 May 1947

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- 4 Project 6295, Report 22, "Preliminary Investigation of Summing Circuits," 22 February 1945
- 4 Project 6295, Report 44, "Detectors, Phase-Sensitive, Full-Wave," 20 April 1945
- 5 Project 6305, Memorandum, "Amplidyne Tests – Summary of," 25 January 1946
- 5 Project 6305, Report, "Manual of Operation and Maintenance Instructions for the Modified A-31 Aircraft Turret," 1 January 1947
- 5 Project 6345, Engineering Note E-84, "Model Two Crystal Tester," 16 December 1947
- 5 Project 6345, Engineering Note E-121, "Gate and Delay Unit," 14 May 1948
- 5 Project 6345, Engineering Note E-126, "Scope Synchroniser," 21 July 1948
- 5 Project 6345, Engineering Note E-137, "Performance of Chains of Gate Tubes," 5 August 1948
- 5 Project 6345, Engineering Note E-144, "Basic Circuits – Revisions," 16 September 1948
- 5 Project 6345, Engineering Note E-232, "Results of Tests of RT47, RT47-1 and RT-50, Beam-Analyzer Tubes," 2 May 1949
- 5 Project 6345, Engineering Note E-245, "Calculation of Correlation Functions by WWI," 1 June 1949
- 5 Project 6345, Engineering Note E-264, "The History of the Development of High-Vacuum, Hot-Cathode, Electrostatic Electron Guns," 25 July 1949
- 5 Project 6345, Engineering Note E-281, "Multivibrator Frequency Divider," 22 August 1949
- 5 Project 6345, Engineering Note E-317, "Flip-Flop Balance Checking in WWI," 23 February 1950
- 6 Project 6345, Engineering Note E-323, "Standard Operating Conditions for 100-Series Whirlwind Electrostatic Storage Tubes," 19 January 1950

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- 6 Project 6345, Engineering Note E-328, "Pulse Transformers and Interstage Coupling in Whirlwind I," 31 January 1950
- 6 Project 6345, Engineering Note E-329, "Techniques for Using Standard Automatic Subroutines," 10 February 1950
- 6 Project 6345, Engineering Note E-337, "Accelerated Life Test for Cathode Interface in Receiving Type Tubes (A paper presented at the MIT Conference on Physical Electronics, March 30, 1950)," 3 April 1950
- 6 Project 6345, Engineering Note E-338, "Test Results of L9B and F8B Productions of TAD7 Tubes," 11 April 1950
- 6 Project 6345, Engineering Note E-345, "The Transition Region between Negative and Positive Regions of Storage Tube Surfaces," 15 June 1950
- 6 Project 6345, Engineering Note E-352, "Compensation of Deflection Defocusing in Storage Tubes," 15 June 1950
- 6 Project 6345, Engineering Note E-356, "Equipment and Techniques for Inserting Information into WWI," 12 July 1950
- 6 Project 6345, Engineering Note E-380, "Operation of Interim Tape Reader Equipment," 12 September 1950
- 6 Project 6345, Engineering Note E-392, "Crystal Diode Investigation – Initial Results," 2 November 1950
- 6 Project 6345, Engineering Note E-393, "Marginal Checking System, WWI," 2 December 1950
- 6 Project 6345, Engineering Note E-395, "Cathode Interface Impedance and its Effects in Aged Vacuum Tubes (Paper delivered at conference on electron tubes for computers in Atlantic City, New Jersey, December 11, 12, 1950)," 2 January 1951

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- 6 Project 6345, Engineering Note E-396, "Crystal Diode Life Experience in WWI Computer Circuits (Paper delivered at conference on electron tubes for computers in Atlantic City, New Jersey, December 11, 12, 1950)," 2 January 1951
- 6 Project 6345, Engineering Note E-397, "Some Basic Relay Pulse Circuits of General Interest," 18 January 1951
- 6 Project 6345, Engineering Note E-400, "Vacuum Tube Pulse Current Tester," 15 March 1951
- 7 Project 6345, Engineering Note E-406, "Preliminary Tests on the Four-Core Magnetic-Memory Array," 18 June 1951
- 7 Project 6345, Engineering Note E-407, "Electrolytic Corrosion as a Possible Future Source of Trouble Affecting WWI Reliability," 25 June 1951
- 7 Project 6345, Engineering Note E-408, "Transistor Conference, June 12, 1951," 3 July 1951
- 7 Project 6345, Engineering Note E-410, "The Complimentary Circuit Method for Determination of Interface Resistance," 23 July 1951
- 7 Project 6345, Memorandum M-62, M-63, M-64, M-66, M-69, M-76, "Lectures by Project Whirlwind Staff on Electronic Digital Computers," March and April 1947
- 7 Project 6345, Memorandum M-77, "Use of a D.C. Restorer Circuits as a Means of Eliminating D.C. Coupling in Digital Computer Circuits," 28 May 1947
- 7 Project 6345, Memorandum M-103, "Gate-Tube Development," 17 September 1947
- 7 Project 6345, Memorandum M-207, "Meeting of Electronics Group, January 7, 1948," 9 January 1948
- 7 Project 6345, Memorandum M-769, "Tube Characteristic Drawings," 1 February 1949
- 7 Project 6345, Memorandum M-788-1, "Suggestions for Mental or Manual Binary Conversion," 16 February 1949
- 7 Project 6345, Memorandum M-969, "Accelerated Life Test for Cathode Interface," 19 January 1950

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- 7 Project 6345, Memorandum M-1000, "A Proposed Binary to Analog Convertor," 6 March 1950
- 7 Project 6345, Memorandum M-1020, "Conference on Automatic Computing Machinery, Rutgers University, March 28-29, 1950," 6 April 1950
- 8 Project 6345, Memorandum M-1036, "The Differential Analyzer Approach in Digital Computers," 3 May 1950
- 8 Project 6345, Memorandum M-1038, "Checking the Holding Ability of Flip-Flops," 9 May 1950
- 8 Project 6345, Memorandum M-1045, "Data on Electron Gun Currents in MIT Storage Tubes," 18 May 1950
- 8 Project 6345, Memorandum M-1056, "Development of Type SR-1047 Vacuum Tubes: Tests on Lots D-2 and C-9674," 20 June 1950
- 8 Project 6345, Memorandum M-1226, "Additions to Project Reports of Current Interest, Report R-173-1," 8 June 1951
- 8 Project 6345, Memorandum M-1247, "The Electronic Temperature of Oxide Cathodes – Methods of Measurements and Results by Robert Champeix, Doctor of Engineering, Laboratory Heud, The Society La Radiotechnique," 19 July 1951
- 8 Project 6345, Memorandum M-1252-M-1484, Project Whirlwind – Bi-Weekly Reports," 6 August 1951-9 May 1952
- 9 Project 6345, Memorandum M-2741, "Operating Procedure for CSII," 21 April 1954
- 9 Project 6345, Report L-3, "Forecast for Military Systems Using Electronic Digital Computers," 17 September 1948
- 9 Project 6345, Report R-129, "Conversion of Shaft Position to Binary Code," 15 October 1947
- 9 Project 6345, Report R-133, "Timing of Whirlwind I," 15 December 1947
- 9 Project 6345, Report R-142, "Talk Delivered by Jay W. Forrester at UCLA," 29 July 1948

Series II.

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- 9 Project 6345, Report R-172, "The Study of Non-Linear Servomechanisms with the Aid of an Automatic Digital Computer," 26 September 1949
- 9 Project 6345, Report R-177, "A Method of Test Checking an Electronic Digital Computer," 15 March 1950
- 9 Project 6345, Report R-185, "Marginal Checking: Preventive Maintenance for Electronic Equipment," 27 April 1950
- 9 Project 6345, Report R-193, "Selected Descriptive Material – Whirlwind I Computer – Volume 1 of 2: General," 10 November 1950
- 9 Project 6345, Report, "The Digital Computation Program at MIT," September 1949
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- 78 Project 7849, Report 11, [June 1960]
- 78 Project 7849, Report 13, 14, n.d.
- 79 "Dynamic Behavior and Design of Servomechanisms," Gordon Brown and Albert Hall, [194?]
- 79 "Differentiating Networks and Lead Networks," G.T. Coate, 1941
- 79 "Manual of Schematic Diagrams and Standard Symbols Useful in Analyses of Hydraulic Servomechanisms," 1941

Series II.

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- 79 "Studies on Eletromagnetic Torque Motors Parts II-IV," George C. Newton, Jr., 1942
- 79 "Oil Gear Tests," 1942
- 79 "Test Report on the Dawson 3-Piston Hydraulic Motors," Donald Campbell, 1942
- 79 "Operating Instructioins for the Automatic Remote Control System for the XB 28 Airplane," 1942
- 79 "CXBL Radar Antenna Remote Drive Equipment Operating Instructions," 1943
- 79 "A Philosophy of Manual Control," Henry A. Rose, 1943
- 79 "Examination of Captured German Hydraulic Transmission," 1944
- 79 "Operation and Alternation Instructions for Drive Controller T15," 1944
- 80 "Forty Minute Mount Mark 3 Mod. 4 Description and Operating Instructions," May 1945
- 80 "Moment of Inertia Tests," 10 August 1945
- 80 "Combined Optical and Radar Fire Control," E.H. Bartelink, 1946
- 80 "Special Transformer Catalog," J.E. Ward, 1947
- 80 "Gunar Mark I Control System for Positioning and Stabilizing the Gun Mount in Train and Elevation, R.J. Kochenburger," 1948
- 80 "Characteristics of Some Magentic-Fluid Clutch Servomechanisms," P.D. Tilton and A.J. Parziale, 1949
- 80 "Report on the Research Program Associated with the Servomechanisms Used on the MIT Differential Analyzer," 9 January 1950, August 1950
- 80 Servo Lab Thesis List, 1937-1950
- 80 Electrodata Program Print-Out Operation Turmoil, 1955
- 80 NCCM Bibliography, 1957
- 80 AIEE confrence paper, J. F. Reintjes, October 1957

Series II.

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80	“Digital Information Processing for Machine Tool Control,” Alfred K. Susskind, [1957]
80	Proposals for Radar Project, 1955-1958
81	Project 6694, B Drawings
82	Project 6694, C and D Drawings
83	Project 6694, E Drawings
84	Project 6873, A, B, C, and E Drawings
85	Project 6873, Final Report

SERIES III. COMPUTATION BOOKS, 1941-1960

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
1	Abbiati, O.	2	1946,1950	
1	Ahrendt, William R.	1	1942	
1	Albert, B. & Archer, G.R.	1	1954	
1	Albert, Brooke	2	1955	7002
2	Albert, Brooke	5	1955	7002
3	Albrecht	1	1947	6546
3	Archer, G.R.	3	7002	
3	Archer, G.R.	[Unbound Envelope]		
3	Armstrong, David E.	1	1953	
3	Arthurs, Edward	1	1952	6897
3	Baker, Arthur	1	1947	6506
4	Baker, Richard H.	1	1949-1950	
4	Barber, Basil	1	1949	6709
4	Bayle, Andrey	5	1942	6097/6168

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
5	Bean, W.S.	1	1951	6846
5	Bedrick, Jay M.	2	1951/1953	6908/7002
5	Belles, Russel E.	1	1953	7002
5	Biernson, George	2	1950-1956	6732/7138
6	Biernson, George	3	1950-1956	6506/6732/7138
6	Bittenbender, R.A.	3	1947	6546
6	Biernson, G. & Shaw, R.	1	1951, 1952	
7	Biernson, Brean, Shaw	1	1951	
7	Blaisdell, Robert M.	1	1945-1946	(6547?)
7	Blanyer, Carl	1	1945?	
7	Blechstein, A.A.	1		6546
7	Booth, M.	1	1952	6897
7	Bottum, E.L.	2	1947	6546
7	Bourland, Hardy M.	1	1956	7342
7	Bourland, Hardy M.	1	1957	Thesis
8	Bourland, Hardy M.	1	1957	7342
8	Boynton, W.H.	1	1945-1957	7163
9	Brean, John W.	1	1951	
9	Brean, John W.	6	1949-1958	
9	Brean, J.W. & Moore, G.	1	1957-1958	7668
9	Brodie, A.C.	2	1947-1948	
10	Bromberg, Nathan S.	1	1959	
10	Brown, Melvin	1	1943	(6506?)
10	Bruce, R.A.	1	1959	7976

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
10	Buckland, L.	1	1953	
10	Buckland, L.	1	1953	7138
10	Burns, W.E.	2	1941-1942	
10	Campbell, Donald P.	1	1940-1941	5968
11	Cameron, M.	1	1947	6546
11	Centner, Ronald M.	1	1956-1957	7420
11	Centner, Ronald M.	1	1955-1957	7405
11	Childs, J.	2	1944	
11	Ciscel, Benjamin H.	1	1945-1946	6305
11	Ciscel, Benjamin H.	2	1946	6305
12	Ciscel, Benjamin H.	1	1946	6305
12	Clements, Donald F.	5	1950-1956	7002/7138
12	Clements, Donald F.	1	1960	8060
12	Clements, Biernson, Martini	1	1955	7138
13	Coate, G.L. (?)	1	1941	
13	Cole, Frank B.	1	1958	5000
13	Connelly, Mark E.	1	1950-1951	6694
13	Connelly, Mark E.	1	1951	6694
13	Connelly, Mark E.	1	1951	7003
13	Crockett, R.G.	1	1950	6506
85	Cronin, Frederick R.	7	1953-1956	6663 (Thesis)/7138
14	Cronin, F.R. & Brean, J.W.	1	1956	
14	Cutting, Elliot	4	1952-1954	
14	Dalrymple, S.W.	1	1947	6546

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
14	Delagrance, Art	1		
14	DiPillo, Alfred N.	1	1950	6683
15	Eaton Jr., Carleton G.	5	1946-1948	6469/6506/6345
15	Eberly, David	1	1946	6305
15	Edwards, E.A.	1	1941-1944	5955-A
16	Edwards, Robert S.	2	1941	Thesis
16	Eisengrein, R.H.	4	1947-1949	6506
17	Evanzia	2	1953	7002
17	Everett, Robert R.	1	1945	6295
17	Feingold, R.M.	2	1947-1948	6546
17	Fiore, John M.	2	1947-1949	6546
17	Fischer, Donovan G.	1	1955-1956	3845 (Thesis)[?]
18	Fischer, Donovan G.	4	1954-1956	7138 (Thesis)/7002
18	Fitts, R.E.	2	1953-1954	7002
19	Fitts, R.E.	1	1954	7002
19	Fitzmorris, M.J.	5	1951-1955	7002/6908
20	Foote, Earle G.	2	1946-1947	6305/6469
20	Floyd, G.F.	2	1950	
20	Foy Jr., W.H	3	1953-1955	7138 (Thesis)
20	Frey, Hugh B.	1	1949	6663
21	Fuller, R.H.	1	1954-1955	
21	Gardiner, Kenneth W.	2	1952-1954	
21	Gehman, Philip A.	1	1956	7424
21	Goldberg, Edwin Allen	1	1956	Thesis

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
21	Gottling, James G.	1	1954-1956	7002
21	Grafinger, Louis N.	1	1946	
22	Grafinger, Louis N.	2	1946	
22	Gray, Henry	2	1947-1948	6546
22	Grim Jr., William H.	3	1947-1948	6986
23	Grim Jr., William H.	2	1949-1954	6986
23	Grohe	1	1947	6546
23	Grossimon, H.P.	1	1954	7163
23	Guinesso, Louis M.	1	1943	6043
23	Hadden, F.A.	3	1947-1950	6546,6663
24	Hadden, F.A.	1	1947-1950	6506
24	Hamara, Oma	1	1953	6897
24	Hamilton, Dorothy A.	2	1950	6506
24	Hedgren, S.	1	1947	6546
24	Herzberg, Ernst	3	1951-1955	6770, 7138, 7163
25	Heuchling, Theodore P.	6	1946-1948	6383, 6683, 6613, 6770
25	Hillier, Bob	1		6846
25	Hills, Frank B.	1	1954-1955	7163
26	Hills, Frank B.	1	1956	7138
26	Hoedemaker, Robert W.	1	1954	
26	Hoge, Robert R.	5	1954	7138
27	Hoge, Robert R.	2	1954	7138
27	Hollander, G.L.	1	1952	
86	Holt, Charles C.	7	1944-1945	6256, 6305,6234

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
27	Holt, C.C. & Sammons, W.L.	2	1943	6117
27	Hrones, John A.	1	1943	6248
27	Hutchinson, F.C.	1	1944	6219?
27	Ivaska, J.P.	1	1949	6666
28	Ivaska, J.P.	2	1949	6546
28	Ivaska, J.P.	2	1947-1948	6383,6546
28	Jeffers, Bill	1	1961	8822
28	Johnson, W.X.	2	1954-1955	Thesis [heavily damaged]
28	Jones, A.	1	1953	
28	Jones, W.H.	1	1947	6546
29	Jordon, Rolando	1	1958	7848
29	Jordon, Rolando	1	1958	7848
29	Jursik, Jim	4	1951-1953	6506, Thesis
30	Jursik, Jim	5	1952-1954	6506, 7138
31	Kaiser, James F.	5	1954-1957	7002, 6908, 7424
31	Kalman, Rudolf E.	2	1953	6897, Thesis
32	Kapp, Edward	1	1957-1959	7668
32	Kapp, Edward	1	1957-1959	7848
32	Kapp, Edward	1	1957-1959	7848
32	Kapp, Edward	1	1957-1959	7848
32	Katz, M.D.	1	1954	
32	Kawecki, Zen	3	1954-1955	7163, 6897
33	Kellner, Richard	1	1952	7002 [confid.]
33	Kelly, Raymond S.	1	1948	6546

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
33	Kelly, Raymond S.	2	1945-1947	6383
33	Kilroy, Henry P.	3	1955-1956	7163, Thesis
34	Kilroy, Henry P.	1	1955-1956	7163, Thesis
34	King, L.A.	1	1947	6546
34	Kleinrock, Leonard	1	1957	Thesis
34	Kletsy, Earl J.	1	1953	Thesis
34	Kochenburger, Ralph	2	1946	6383
34	Kolodkin, Stanley S.	1	1954	6897
34	Koso, D.[?] Alexander	1	1957	7668
35	Krasinski, J. & Martin, L.H.	2	1952	6897
35	Kreitner, F.J.	1	1954	
35	Laspina, Christopher A.	2	1956	Thesis
36	Lassiter, Eddie M.	1	1958	
36	Lassiter, Eddie M.	1	1958	
36	Leary Jr., Timothy	1	1944	6043
36	Lee, Francis F.	2	1953-1954	7163
36	Leith,	1	1959	
37	Lee, Robert E.	5	1952-1958	7591
37	Leonard, R.R.	2	1954	
38	Lynch, Thomas J.	4	1957-1958	7848
38	MacArthur, John	4	1957-1958	
39	Mahoney, T.J.[?]	1	1947	6546
39	Maia, G.	1	1956	7420
39	Malcolm, J.G	2	1953-1954	6986

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
39	Maples, T. Kemp	4	1947-1948	
40	Marcy, H. Tyler	7	1941-1943	6041,5955,6143,6152
41	Marcy, H. Tyler	5	1941-1943	6256, 6288
41	Mark, Robert B.	2	1955	7138
42	Mark, Robert B.	2	1956	7138
42	Marsh, J. Myron	1	1954	
42	Martin & Kramer	1	1951	
42	Martin, Louis Holt	2	1949-1950	6897
43	Martin, Louis Holt	4	1950-1954	6897, Thesis
44	Martin, Louis Holt	1	1954	6897
44	Martini, Donald S.	2	1952-1955	6351, 7002
44	McDonald, D.	4	1942-1945	6152, 6245
45	McDonald, D.	6	1942-1945	6256,6301,6305,6043
45	McDonough, J.O.	2	1946	Thesis, 6469
46	McDonough, J.O.	5	1946-1949	6469,6506,6546,6683
46	Menger, Karl Stephan	1	1959	7849
46	Miller, H.L.	1	1947	6546
46	Miller, Ralph	2	1958	7002
47	Moeller	1	1947	6546[restricted]
47	Monks, Leo E.	4	1946-1951	[confidential]
47	Moore, Henry	1	1948	6555
47	Moore Jr., Garvin M.	1	1956	7138, 7668
48	Morgenstern, John	6	1953-1954	7062, 7002
49	Morin, John O.	3	1953-1954	7108, 7163

Series III.

<u>Box</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
49	Mozer, Frank	1	1946	6383
49	Mullin, Frank J.	2	1955	7138[?]
49	Munro	1	1948	6546
49	Newberg, Irwin L.	2	1958	7848
50	Newberg, Irwin L.	3	1959	7848
50	Newton Jr., George C.	2	1940-1942	
50	Nickerson, Ernest G.	1	1945	6409
50	Nordahl, J.G.	1	1954-1955	
87	Notthoff, A.P.	2	1948	6506
87	Ojalvo	1	1956	7405
87	Osman, Martin S.	1	1954	
87	Osman, Martin S.	1	1955	
87	Osman, Martin S.	1	1956	
87	Osman, Martin S.	1	1956	
88	Osman, Martin S.	1	1957	
88	Osman, Martin S.	1	1958	
88	Osman, Martin S.	1	1958	Thin Film Project
88	Osman, Martin S.	1	1959	
88	Osman, Martin S.	1	1960	
88	Osman, Martin S.	1	1960	
51	Ostrom, C.D. & Smolensky, S.M.	1	1947	Thesis
51	Page, Frank D.	2	1945-1946	
51	Paine, Charlotte J.	1	1945	6295

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
51		Parker, Ted	1	1957	7002
51		Parziale, Alfred J.	2	1948	6506
51		Payson, Eliot C.	1	1943	6152
52	1	Pearl, Max	3	1944-1945	6288
52	2	Pease, Will	5	1943-1945	6170, 6168
53	1	Perley, Dick	3	1949-1950	6506, 6683
53	2	Pettler, P.R.	1	1953	7163
53	3	Preston, John L.	3	1952-1953	6897
53	4	Proakis, John [Envelope]	1	1959	
54	1	Proakis, John [Envelope]	1	1959	
54	2	Prohaska, E.S.	3	1945-1949	6655,6288,6383
54	3	Prohaska, E.S.	2	1945-1949	6219,6506,6345
54	4	Prugh, Richard W.	1	1954	7002
55	1	Rand, Albert	2	1953-1954	7002
55	2	Raymond, M.W.	1	1954	7138
55	3	Reeves, John F.	3	1944-1946	6288,6294,6333
55	4	Reeves, John F.	2	1945-1946	6342,6305,6409
56	1	Reeves, John F.	3	1942-1944	6047,6117,6145, 6208
56	2	Reeves, John F.	2	1945-1946	6342,6305,6409
56	3	Relyea Jr.	1	1956-1957	7405
56	4	Replogle Jr., Frank	1	1951	6663
57	1	Replogle Jr., Frank	2	1951-1953	6663
57	2	Replogle Jr., Frank	2	1951-1953	6663
57	3	Roberts, Roy	3	1947-1948	6546,6383 [confidential]

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
58	1	Roberts, Roy	1	1947-1948	6546
58	2	Rosen, Sidney	2	1944-1945	6245
58	3	Ruhman, Smil	1	1956	
58	4	Runyon, J.H.	3	1951-1953	Whirlwind I
59	1	Runyon, J.H.	1	1951-1953	Whirlwind I
59	2	Runyon, J.H.	2	1954	NCMM, Computing Survey
59	3	Salvatore, Michael	2	1944	6219 [Confidential]
60	1	Salvatore, Michael	3	1944	6219,6305
60	2	Samario, Edward J.	2	1950-1951	
60	3	Santangelo, J.	1	1947	6546
60	4	Savitt, D.	2	1957	Thesis (Circuits)
61	1	Savitt, D.	3	1957	Thesis (Circuits)
61	2	Schreiner, Kenneth E.	3	1945-1946	6409,6305,6469
61	3	Schwartz, George J.	4	1942-1944	6234,6295
62	1	Schwartz, George J.	4	1942-1944	6234,6295
62	2	Schwartz, George J.	1	1942-1943	Torque Test Data
62	3	Seaver, Bill	1	1951	6506
62	4	Shairman, Alvin H.	1	1945-1946	
63	1	Shapiro, Allan D.	1	1945	6288
63	2	Shaw Jr., Richard	3	1951-1953	6506
63	3	Shechet, Morris L.	3	1951-1953	Thesis, 6846,7003
64	1	Shechet, Morris L.	2	1951-1953	6908, 7002
64	2	Shechet, Morris L.	1	1951?	6908

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
64	3	Sifferlen, Tom	1	1953-1954	6897
64	4	Silvey, J.O. & Reeves, J.F.		1	1943-1944 6152
64	5	Silvey, J. & Prohaska, E. & Fiore, J.	1	1949	6655
65	1	Simons Jr., John C	1	1952	6908
64	2	Smith, B.S.	1	1947	6546
65	3	Smith, Mary Buck	3	1945-1946	6305
65	4	Smith, Mary Buck	2	1946-1947	6305
65	5	Smith, Mary Buck	1	1947	6305
66	1	Smith, Mary Buck	1	1947	6305
66	2	Smith Jr., Paul E.	1	1958	7976
66	3	Smith Jr., Paul E.	1	1958	7976
66	4	Spencer, Richard H.	3	1950-1951	6663
66	5	Spencer, Richard H.	1	1952-1953	6986
67	1	Spencer, Richard H.	2	1952-1953	6986
67	2	Spencer, Richard H.	1	1954-1955	6986
67	3	Spencer, Richard H.	3	1955-1956	7138
67	4	Spencer, Richard H.	2	1957	7668
67	5	Spencer, R.H. & Clemments, D.C.	1	1957	7668
68	1	Spicer Jr., William C.	1	1951	6663
68	2	Stallard, David V.	3	1953-1954	6506, 7138
68	3	Stallard, David V.	3	1954-1955	7138
68	4	Stallard, David V.	3	1955-1956	7138, 7444
69	1	Steinhauer Jr., Henry	1	1943	6152

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
69	2	Stoft, Paul	2	1954	7138
69	3	Subbotin, Boris T.	1	1953	
69	4	Sullivan, W.E.	2	1946-1947	6305
84	3	Susskind, A.K.	1	1952	
84	4	Susskind, A.K.	1	1953-1954	
84	5	Sussman, S.M.	1	1954	
70	1	Swartwout, C.J.	2	1945	6305
70	2	Swainson, W.H.	1	1945	6383
70	3	Tancrell, Roger H.	1	1956	7138-R
70	4	Tarjan, Peter	1	1959-1960	
70	5	Taylor, A.J.	1	1945	6295
70	6	Terwilliger, D.D.	1	1943	6145
71	1	Terwilliger, D.D.	1	1945	6383
71	2	Thiessen, Peter I.	3	1946-1947	Phase Shifting
71	3	Thornton, Richard D.	1	1953	6506
71	4	Tilton, P.D.	2	1947	6469, 6545
72	1	Tilton, P.D.	2	1948-1949	6506
72	2	Tone, F.F.	2	1942, 1944	6047,6219,6234
72	3	Tone, F.F.	2	1945	6383,6309,6310
72	4	Tone, F.F. & Jean, L. St. & Navin, R.	1	1942	6047
72	5	Travers, Paul	2	1945-1947	6305, 6383
73	1	Travers, Paul	2	1947-1950	6383
73	2	Travers, Paul	3	1947-1950	6383
73	3	Tressler, R.R.	1	1947	6546

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
73	4	Troop Jr., H.W.	1	1945	6295
74	1	Troutman, L.E.	2	1945-1946	6383, Thesis
74	2	Truesdale, C.N.	1	1947	6546
74	3	Tuller, W.G.	1	1946	[automatic control]
74	4	Uhl, R.J.	1	1957-1958	7668
74	5	Van Horn Jr., Irving H.	3	1942-1943	6041, 6152
75	1	Van Horn Jr., Irving H.	1	1944	6219
75	2	Van Horn Jr., Irving H.	3	1944-1945	6219,6337,6305
75	3	Van Horn Jr., Irving H.	3	1945	6219
75	4	Vannah, W.E.	1	1947	6545
76	1	Van Renne, A.B.	1	1950-1954	6663
76	2	Van Renne, A.B.	1	1954	6663
76	3	Vinal Jr., Albert W.	1	1948	6506
76	4	Vinal Jr., Albert W.	1	1949	6506
76	5	Vinal Jr., Albert W.	1	1950	6663
76	6	Vinal Jr., Albert W.	1	1953	6506
77	1	Vinal Jr., Albert W.	3	1954	7138
77	2	Voci, H.M.	1	1947	6546
77	3	Walcott, Permilla	1	1943	6288
77	4	Walcott, Permilla	1	1944	6234
78	1	Walcott, Permilla	1	1944-1945	6288, 6305
78	2	Walcott, Permilla	1	1944-1945	6288, 6305
78	3	Walcott, Permilla	1	1944-1945	6288, 6305
78	4	Walcott, Permilla	1	1945	6288

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
78	5	Ward, J.E.	1	1947	6305
78	6	Ward, A.G. & Hooper, E.B.	1	1940	“Special Project”
79	1	Warshaw, Stanley W.	1	1943	6152
79	2	Warshaw, Stanley W.	1	1944	6152
79	3	Watson, J.K.	1	1953-1955	6986
79	4	Welch, J.D.	1	1959-1960	6694
79	5	Whitehouse, David R.	1	1952	6986
80	1	Whitehouse, David R.	1	1953	6986
80	2	Whitehouse, David R.	1	1953	6986
80	3	White, G.W. & McDonald, Donald	1	1942	6047
80	4	White, Harris F.	1	1947	6546
80	5	Whitley, James H.	1	1951	6916
80	6	Wieser, C.R.	1	1942	6074, 6145
81	1	Wieser, C.R.	1	1943	6152,6208,6219
81	2	Wieser, C.R.	1	1945-1946	6305
81	3	Wieser, C.R.	1	1946	6305
81	4	Wieser, C.R.	1	1947	6469
81	5	Wood, J.	1	1954	7002
81	6	Yarborough, J.D.	1	1945	6288
81	7	Young, Mina S.	1	1945	6378
82	1	Young, Mina S.	1	1946-1947	6305, 6383
82	2	Young, Mina S.	1	1947	6383, 6506
82	3	Young, Mina S.	1	1947	6506

Series III.

<u>Box</u>	<u>Folder</u>	<u>Author</u>	<u>No. Books</u>	<u>Year</u>	<u>Project No.</u>
82	4	Zabusky, Norman	1	1947	6383
82	5	Zabusky, Norman	1	1950	6506
82	6	Zabusky, Norman	1	1951	6506
83	1	Zabusky, Norman	1	1951	6897
83	2	Zabusky, Norman	1	1951	6506
83	3	Zabusky, Norman	1	1952	6897
83	4	Zabusky, Norman	1	1952	6897
84	1	Zabusky, Norman	1	1952	6897
84	2	Zabusky, Norman	1	1953	6897
84	3	Susskind, A.K.	1	1952	
84	4	Susskind, A.K	1	1953-1954	
84	5	Sussman, S.M.	1	1954	
85	1-7	Cronin, Frederick	7	1953-1956	6663,7138
86	1-7	Holt, Charles C.	7	1944-1945	6256,6305 6234
87	1-2	Notthoff, AP	2	1948	6506
87	3	Ojalvo	1	1956	7405
87	4	Osman, Martin S.	4	1954-1956	
88	1-6	Osman, Martin S.	6	1957-1960	