

# Weaver (Warren) papers

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English

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Rockefeller Archive Center

15 Dayton Avenue Sleepy Hollow 10591

archive@rockarch.org

URL: <a href="http://www.rockarch.org">http://www.rockarch.org</a>

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# **Summary Information**

**Repository:** Rockefeller Archive Center

**Creator:** Weaver, Warren, 1894-1978

**Title:** Warren Weaver papers

**ID:** FA419

**Date [inclusive]:** 1912-1978

**Physical Description:** 32 Cubic Feet

Language of the

Material:

English

#### **Preferred Citation note**

Information regarding the Rockefeller Archive Center's preferred elements and forms of citation can be found at <a href="http://www.rockarch.org/research/citations.php">http://www.rockarch.org/research/citations.php</a>

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# Biographical/Historical note

Warren Weaver (b. July 7, 1894, d. November 24, 1978) was a scientist, mathematician and science administrator, best known as one of the pioneers of machine translation and as an advocate and supporter of science in all its forms.

Warren Weaver was born in the town of Reedsburg Wisconsin, son of Isaiah Weaver and Kittie Belle (Stupfell) Weaver. Isaiah Weaver was a drugstore owner and it was through his dealings as a druggist that Warren was first introduced to science. During one of his father's annual toy buying trips to Chicago in preparation for the holiday season at the drugstore, he bought 7-yearold Warren a \$1 Ajax motor powered by a single dry cell battery. Warren took it apart, rebuilt it and began tinkering with its components and mechanics. With curiosity and imagination, a life in science was born. "I didn't know whether such activity was called science or engineering or what...but I decided right then that whatever this was, I wanted it" said Weaver.1

Warren Weaver served as a 2nd Lieutenant in the Air Service during World War I from 1917-1919. Weaver's formal education was attained at the University of Wisconsin-Madison where he earned a Bachelor of Science degree in 1916, a civil engineering degree in 1917, and later a Ph.D. in 1921. It was also at the University of Wisconsin where Warren met and fell in love with fellow student Mary

Hemenway. The couple was married on September 4, 1919 and had two children Warren Jr. and Helen Hemenway. Mary became Warren's staunchest supporter and at times his critic as well. "She had strong convictions and defended them with reason and logic, and held her own in family discussions. Warren learned to depend in many ways on Mary, whose wise counsel was invaluable." 2

In 1917 Weaver began his teaching career as an Assistant Professor of Mathematics at Throop Polytechnic Institute, Pasadena, CA, renamed the California Institute of Technology in 1919.

In 1920 Weaver returned to the University of Wisconsin and assumed the position of Assistant Professor of Mathematics, 1920-25; Associate Professor of Mathematics, 1925-28; and Mathematics Professor and Department Chairmen, 1928-1932.

Throughout his career Weaver contributed many papers and articles to math and science journals. Several of his early writings are "The Pressure of Sound" (1920), "The Kinetic Theory of Magnetism" (1920), his collaboration with Max Mason "The Settling of Small Particles in a Fluid" (1924) and the influential books Elementary Mathematical Analysis (1925) and The Electromagnetic Field (with Max Mason), University of Chicago Press, 1929.

Trained as a mathematician, in 1932 Weaver was offered the Directorships of the newly established Natural Sciences Division of the Rockefeller Foundation and the General Education Board. "Inherent in Weaver's responsibilities with the Foundation was the necessity to travel widely, and to become intimately familiar with a broad spectrum of scientists and their laboratories here [in the United States] and abroad." At the start of this endeavor he feared his lack of competence in the wide range of sciences now under his care, for which he said, "I was convinced that the great wave of the future....was in the biological sciences." 4

At the Rockefeller Foundation, Weaver was responsible for approving grants for major projects in a variety of natural sciences including molecular engineering, genetics, and later agriculture and medical research. In many ways his primary job was to identify, support and encourage young scientists and foster their development. Often this required Weaver to forecast and select scientists he believed were or would be innovators in their respective fields. "Beginning with 1933 Dr. Weaver saw clearly that science was being degraded in some regions of Europe and was a powerful factor in recruiting for American mathematics a large number of scholars from the various European countries."5

He studied intensely to expand his knowledge base to a broad range of sciences in order to make sound judgments and fulfill the obligations of the RF directorship, particularly in his first programs in quantitative biology. He sought to obtain greater support for the development of experimental biology including biochemistry, cellular physiology, embryology and genetics. Weaver "passionately believed that compartmentalization of any science weakened its total impact, and that only interdisciplinary effort would result in solid progress."6 Therefore he sought to eliminate the traditional barriers between scientific disciplines and advocated crossdisciplinary studies in order to more fully dissect, diagnose, and address the world's problems. "The coming of age of biology will be seriously impeded unless the circumstances of encouragement and support are favorable for the breaking down of old orthodox compartments in science, unless all the tools and techniques of the physicist, the chemist and the mathematician can be brought effectively to bear"7

In 1943 the Rockefeller Foundation added agriculture to the Natural Sciences program. The agricultural program had two primary objectives: 1. To cooperate with foreign governments in agricultural research,

such as those programs instituted in Mexico and Columbia "with the practical aim of using science to improve both the quality and quantity of basic food crops;" 2. The development of agricultural science through the encouragement of advanced research and the training of personnel.8

Weaver practiced what he preached. He often sought to break the traditional barriers of scientific research by calling upon his broad spectrum of personal and professional colleagues and acquaintances from varying fields and expertise to seek collaborators for various personal projects and writings. He was co-author, with Claude E. Shannon, of The Mathematical Theory of Communication, University of Illinois Press, in 1949, often considered a landmark work in the field of communication. Shannon's essay focused primarily on the engineering aspects of the theory, while Weaver's "Some Recent Contributions to the Mathematical Theory of Communication" offered a philosophical discussion of the implications of the theory written with language accessible to a greater audience. Weaver "believed that communication leads to understanding which in turn leads to social progress." Later collaborations included U.S. Philanthropic Foundations: Their History, Structure, Management and Record, (1967) in which Weaver utilized his knowledge of Foundations and his vast experience as an administrator in the third sector to collaborate with George Wells Beadle and others.

Weaver's dedication to science was possibly only equaled by his profound dedication to the United States and the ideals of democratic society. "Called upon to return to his original interests in applied mathematics during World War II, Weaver directed government research projects in the Office of Scientific Research and Development. From July 1940 until December 1942 he served as Chairman of Section D-2, the Fire Control Division, of the National Defense Research Committee, and from 1943-1946 as Chief of the Applied Mathematics Panel, an organization of over 200 mathematicians and statisticians working on a wide variety of military problems. As early as 1941, Weaver had served on an official scientific mission, under James Bryant Conant, to investigate British weapons development." 10

"As Chief of the Applied Mathematics Panel of the National Defense Research Committee...Dr. Weaver rendered service beyond all praise. Through his insight and diplomatic skill, he was able to convince the armed forces that mathematics is vital in the solution of many urgent problems of defense and offense. Because of his wide knowledge of, and remarkable ability in, the applications of mathematics he was successful in rallying a host of members of the [American Mathematical] Society to join him in exploring problems remote from their own fields. In the various events which resulted in mathematics emerging from the war with greatly enhanced prestige, he was a notable leader"11

For his outstanding service in connection with the development of anti-aircraft fire control devices (prediction computers, and controlling servomechanisms) and for bombsights and computing sites for use in air-to-air combat, Weaver was awarded the Medal for Merit (1948), the highest honor a civilian can receive from the United States. He also received the King's Medal for Service in the Cause of Freedom (1948) from Britain and he was named an Officer of the Legion of Honor in France (1950).12

After World War II, Weaver continued his civilian service in a variety of capacities including but not limited to: membership on the Research Advisory Panel of the War Department, 1946-1947; Chairman of the Naval Research Advisory Panel, 1946-1947; and Chairman of the Basic Research Group, Research and Development Board, Department of Defense, 1952-1953.

Weaver's dedication to promoting the international understanding of science, as well as his cross-disciplinary approach and brilliant analytical mind were clearly on display in his memorandum "Translation" of July 15, 1949 in which he wrote "There is no need to do more than mention the obvious

fact that a multiplicity of languages impedes cultural interchange between the peoples of the earth, and is a serious deterrent to international understanding. The present memorandum, assuming the validity and importance of this fact, contains some comments and suggestions bearing on the possibility of contributing at least something to the worldwide translation problem through the use of electronic computers of great capacity, flexibility and speed. The suggestions of this memorandum will surely be incomplete and naïve, and may well be patently silly to an expert in the field – for the author is certainly not such."13 With his unassuming manner, and common language analogies, Weaver then proceeded to present quite possibly the single most influential publication in the early history of the field of machine translation, and as he had hoped it served as a direct stimulus for research in the field.

In his career as a science administrator Weaver served many foundations and philanthropic endeavors including but not limited to the General Education Board (where he served as Director, Division of Natural Sciences, 1932-1937); the Rockefeller Foundation (Director, Division of Natural Sciences, 1932-1955; Director, Division of Science and Agriculture, 1951-1955, Vice President for Natural and Medical Sciences, 1955-1959); Alfred P. Sloan Foundation (Trustee, 1956-1967; Vice President, 1959-1964; Consultant Scientific Affairs, 1964-1978, Member Executive Committee, 1956-1967; Honorary Trustee, 1967-1978); Salk Institute of Biological Studies, San Diego, CA (Trustee, Chairman of the Board, Non-Resident Fellow); Sloan Kettering Institute (Member, Board of Scientific Consultants, 1951-1954; Trustee, 1954-1967; Chairman, Committee on Scientific Policy, 1955-1959; Member, Executive Committee, 1956-1967; Vice President, 1958-1959); Memorial Hospital (Member, Board, Memorial Center for Cancer and Allied Diseases, 1958-1960; Vice Chairman of the Board, Chairman of the Committee on Scientific Policy, Memorial Sloan-Kettering Cancer Center, 1960-1967; Member, Executive Committee, Memorial Hospital for Cancer and Allied Diseases, 1960-1967). Weaver also served on a variety of councils and committees including but not limited to the National Advisory Cancer Council USPHS, 1957-1960 and as a member of the Governor's Committee on Hospital Costs (N.Y.), 1964-1965. Weaver was President and Chairman of the Board of the American Philosophical Society, 1955. He also served as Member, Vice-Chairman, and Member of the Executive Committee of the Health Research Council N.Y.C., 1958-1960; Director and President of the Public Health Research Institute, N.Y.C, 1961-1963; and as a Member of the National Science Board, National Science Foundation, 1956-1960.

"Warren Weaver's ideas about policy in foundation support of scientific work appeared to be contradictory. In his main service as a director of the Rockefeller Foundation, he developed such applications of science as quantitative biology, better corn for Mexico, and better rice for India. In his membership on the Science Board of the National Science Foundation he came down strong for support of fundamental research. As the director of the Alfred P. Sloan Foundation his policy was to support chosen men or women, neither with a particular mission in applied science nor with commitment to fundamental research, and he assisted in the support of an institute of applied mathematics at NYU. He did not try to resolve these apparent contradictions by any abstract principles, which he distrusted as being too inflexible. Instead, he believed that such diverse aims were not only tolerable but desirable. It only required that the one who made the choices in the foundation have a good mind and training and be willing to use them with the help of the best obtainable expert advice."14

Along with communication, Weaver's greatest personal research interest lay with the mathematical theory of probability. It was his belief that all scientists are deeply concerned with probability. "For a vast range of cases in which it is entirely impossible for science to answer the question 'Is this statement true?' probability theory does furnish the basis for judgment as to how likely it is that the statement is true. It is probability which, in an important fraction of cases, enables man[kind] to

resolve the paradoxical dilemma pointed out by Samuel Butler: 'Life is the art of drawing sufficient conclusions from insufficient premises." 15 Early in his career Weaver tackled the matter of probability with several writings including "The Reign of Probability" (1930) and "Probability, Rarity, Interest and Surprise" (1948) both published in the Scientific Monthly. Weaver's pursuit to share his passion for probability with the people of the world culminated with Lady Luck: The Theory of Probability published in 1963. It is a witty fun introduction to probability theory with more than 40 illustrations by Peg Hosford and no advanced understanding of mathematics required. Along with his extensive knowledge of the subject, Weaver shares his personality, and his joy and love for mathematics. Possibly his greatest talent and most momentous achievement was his innate ability to communicate complicated mathematical and scientific concepts to children and the general public in a manner that clearly and distinctly brought these concepts into everyday life. Combined with his teaching talents he had built and refined this skill advocating for research support of young and often unproven scientists while at the Rockefeller Foundation, and he perfected it with the innovative and imaginative Lady Luck.

Weaver was elected President of the American Association for the Advancement of Science in 1954. He was named a fellow of the American Academy of Arts and Sciences (1958). He received the Public Welfare Medal from the National Academy of Sciences in 1957 and the first Arches of Science Award from the Pacific Science Center in 1965 for outstanding contributions to the public understanding of the meaning of science to contemporary men and women. In the same year, UNESCO presented Weaver with its international literary award, the Kalinga Prize for distinguished contributions to the popular understanding of science and exceptional skill in presenting scientific ideas to lay people.

Among his many memberships included: the American Mathematics Society, Mathematics Association of America, American Philosophical Society, American Society of Naturalists, American Society of Symbolic Logic, Council Library Resources (dir. 1956-59), National Academy of Sciences, Corr. Member, Chr. Michelsens Institutt (CMI), Bergen, Norway, as well as the Cosmos Club (Washington, DC) and the Century Association (N.Y.C.).

Weaver was also an aficionado of the storyteller Lewis Carroll and his seminal work of fantasy Alice's Adventures in Wonderland. Richard Magat wrote in 1959 "Alice in Wonderland was the first book Warren Weaver ever owned. His mother read it to him before he could read it himself. He has never since escaped the thrall of Lewis Carroll's whimsy. Indeed he has not tried to escape; he has been a quite willing captive to a form of communication that reaches everyone"16 Carroll's educational training and academic work were in the field of mathematics within which he published many works under his given name Charles L. Dodgson. Weaver was actually "very much like Carroll in his ability to communicate to all sorts of people his ideas about the exceedingly strange things of the everyday"17

Weaver owned an extensive collection of Carroll's writings, now held at the University of Texas, and he wrote several articles dedicated to Carroll's work as well as the book Alice in Many Tongues (1964) devoted to 160 translations of Alice in Wonderland in 42 languages. Weaver "continued his study of science and communication throughout his life, not only to do well in his job as supporter of science but also to become a remarkable interpreter of science and mathematics to the public. He proved that, if a mathematician puts his mind to it, mathematics is a very good base – perhaps the best – from which to become broadly educated in science and the humanities. By the time he retired, Warren Weaver was as knowledgeable a scientific generalist as we had in this country, and as wise a director of philanthropy as we had"18

1 Magat, Richard. "Everyman's Scientist: Dr. Warren Weaver", Saturday Review, May 2, 1959. 2 Harrar, J.G. "Warren Weaver". Year Book of the American Philosophical Society, p.113-117, 1979. 3 Harrar, J.G. "Warren Weaver". Year Book of the American Philosophical Society, p.113-117, 1979. 4 Duren, William L. Jr. Notices of the American Mathematical Society, vol. 26, no. 3, April 1979. 5 Resolution of the Board of Trustees of the American Mathematical Society, January 17, 1948, Folder 132, Warren Weaver Papers, RAC. 6 Harrar, J.G. "Warren Weaver". Year Book of the American Philosophical Society, p.113-117, 1979. 7 Barnard, Chester I. Science, vol 117, no. 3034, pages 174-176, February 20, 1953. 8 Barnard, Chester I. Science, vol 117, no. 3034, pages 174-176, February 20, 1953. 9 Harrar, J.G. "Warren Weaver". Year Book of the American Philosophical Society, p.113-117, 1979. 10 Barnard, Chester I. Science, vol 117, no. 3034, pages 174-176, February 20, 1953. 11 Resolution of the Board of Trustees of the American Mathematical Society, January 17, 1948, Folder 132, Warren Weaver Papers, RAC. 12 Barnard, Chester I. Science, vol 117, no. 3034, pages 174-176, February 20, 1953. 13 Weaver, Warren. "Translation", July 15 1949, Folder 476, Warren Weaver papers, RAC. 14 Duren, William L., Jr. Notices of the American Mathematical Society, vol. 26, no. 3, April 1979. 15 Scientific American, 183, 47, October 1950. 16 Magat, Richard. "Everyman's Scientist: Dr. Warren Weaver", Saturday Review, May 2, 1959. 17 Magat, Richard. "Everyman's Scientist: Dr. Warren Weaver", Saturday Review, May 2, 1959. 18 Duren, William L., Jr. Notices of the American Mathematical Society, vol. 26, no. 3, April 1979.

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# **Scope and Contents note**

The Warren Weaver papers consist of correspondence, memoranda, reports, speeches, manuscripts, articles, reprints, photographs and a selection of oversized materials including awards, citations and degrees.

The collection documents Weaver's life as a teacher, author, mathematician, administrator and scientist. It sheds light on his vast interests and knowledge as well as the relationships he developed, and the respect he garnered, from an extensive network of friends, colleagues, academicians and acquaintances in the fields of mathematics, science, philanthropy, the armed forces and government.

The papers demonstrate Weaver's brilliant analytical mind, his wit, his humor, his capacity for logic and deductive reasoning, his lifelong commitment to science and communication and his extraordinary ability to express complex concepts in common language to share the magic of science with the general populous.

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### **Arrangement note**

The Warren Weaver papers are arranged into 13 series: 1. Correspondence, 1912-1978 (5.5 cu. ft.); 2. Biographical, 1932-1978 (0.5 cu. ft.); 3. Rockefeller Foundation, 1933-1961 (2.5 cu. ft.); 4. Travel, 1932-1961 (1.5 cu. ft.); 5. Salk Institute for Biological Studies, 1961-1973 (4 cu. ft.); 6. Alfred P. Sloan Foundation, 1957-1974 (3.5 cu. ft.); 7. Sloan-Kettering Institute, 1959-1973 (0.8 cu. ft.); 8. General Files, 1932-1979 (3.5 cu. ft.); 9. Speeches & Articles, 1937-c.1966 (1 cu. ft.); 10. Awards, Citations and Degrees, 1936-1969 (2 cu. ft.); 11. Manuscripts, 1963-1965 (2 cu. ft.); 12. Reprints, 1920-1987 (Bulk: 1932-1977) (6 cu. ft.); 13. Photographs & Special Formats.

The majority of the records are arranged as received by RAC. Arrangement of the material within folders is also as received, primarily in a loose reverse chronological order (unless otherwise noted).

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### **Administrative Information**

#### **Publication Statement**

Rockefeller Archive Center

15 Dayton Avenue Sleepy Hollow 10591 archive@rockarch.org

URL: http://www.rockarch.org

#### **Conditions Governing Access note**

The collection is open for scholarly research, with select materials restricted (as noted) All previously published material is open for scholarly research.

It is highly recommended that requests to view the Warren Weaver papers are made by Box Number. Retrieval of individual folders is permitted.

# **Conditions Governing Use note**

Helen Weaver, daughter of Warren Weaver, retains copyright and literary rights in the collection, in so far as she holds them, during her lifetime, after which all rights transfer to the Rockefeller Archive Center.

The Rockefeller Archive Center has authority to grant permission to cite and publish material from the collection.

### **Immediate Source of Acquisition note**

Helen Weaver, Warren Weaver's daughter, donated these records to the Rockefeller Archive Center in April 2001. The Archive Center received the collection in multiple accessions including but not limited to those made in January 1997, November 2000 and March 2001 (Accessions 1997:002, 2001:015, 2005:008 and 2009:013).

### **Processing Information note**

Limited archival processing of the Warren Weaver papers was conducted by Robert Battaly, Assistant Director, Head of Processing, Rockefeller Archive Center in May 2011 to arrange and describe the material and enable scholarly access. Further archival processing, primarily to address the preservation and conservation needs of the records, will be conducted at a later date, as necessary.

The finding aid for Series 1-12 was prepared by Robert Battaly, Assistant Director, Head of Processing, Rockefeller Archive Center, May 2011. The finding aid for Series 13 Photographs and Special Formats was prepared by Larissa Woo, Archivist, Rockefeller Archive Center, June 2001.

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#### **Related Materials**

#### **Related Archival Materials note**

Related Archival Material available at RAC

- 1. Rockefeller Foundation Records (particularly those records documenting the Division of Natural Sciences (1932-1955), the Division of Sciences and Agriculture (1951-1955) and the Medical Sciences (1955-1959).
- 2. Warren Weaver Diaries, 1932-1959 (Rockefeller Foundation, RG 12 Officers' Diaries)
- 3. Warren Weaver Oral Histories: Oral History Research Office, Columbia University, 1961; Mexican Agricultural Program, 1966 (Rockefeller Foundation, RG 13 Oral Histories)
- 4. Memorial Sloan-Kettering Cancer Center records

#### **Related Archival Materials note**

Related Material at other Archival Repositories

- 1. Warren Weaver Papers, 1928-1932 (0.3 cu. ft.), University of Wisconsin.
- 2. Lewis Carroll (Charles Dodgson), Warren Weaver Collection, University of Texas.

# **Controlled Access Headings**

- Agricultural administration
- Administration
- Distribution (Probability theory)
- Mathematics
- Applied mathematics
- Mathematical statistics
- Mass Communications
- Science -- Physical and Mathematics
- Education
- Mathematics -- Study and teaching
- Weaver, Warren, 1894-1978
- Rockefeller Foundation.
- Alfred P. Sloan Foundation.

# Physical Characteristics and Technical Requirements note

The Archive Center staff has closed select items in the Warren Weaver papers from scholarly access until staff can complete necessary preservation measures. Archival records which are temporarily restricted due to preservation concerns are clearly identified in the inventory section of this finding aid.

Portions of the collection currently remains housed in original folders. RAC staff suggests that researchers using the papers consult the inventory for full folder titles, which may appear in abbreviated form on the folders themselves.

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#### General note

Various folders or items within the collection may contain informational notes handwritten by Weaver's daughter Helen while she was reviewing the records and preparing them for shipment to RAC.

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# **Collection Inventory**

### Correspondence, 1912-1978

Physical Description: 5.5 Cubic Feet

#### Arrangement

The strength of the papers is a rich set of correspondence, primarily contained in Series 1, which are arranged as received by RAC in four subseries: 1. General Correspondence, 1925-1977; 2. General Correspondence, 1912-1978; 3. Probability; 4. World Wars.

The General Correspondence is arranged alphabetically by personal or institutional name, and further presented loosely in reverse chronological order within each folder.

# General Correspondence, 1925-1977

Title/Description	Instances		
A	box 1	folder 1	
American Association for the Advancement of Science (A.A.A.S.), 1967-1973	box 1	folder 2	
Academy of Religion and Mental Health, 1966-1969	box 1	folder 3	
Academy of Religion and Mental Health, 1967	box 1	folder 4	
Academy of Religion and Mental Health, 1970	box 1	folder 5	
Alice TV Show (WNET-TV Channel 13), 1962-1963	box 1	folder 5.1	
American Academy of Arts and Sciences, 1967-1969	box 2	folder 6	
Author's Guild, 1967-1968	box 2	folder 7	
Ayer, N.W., 1970	box 2	folder 8	
Ba-Bl, 1954-1975	box 2	folder 9	
Bo-Bu, 1959-1972	box 2	folder 10	
Beadle, George, 1961-1968	box 2	folder 11	

Binet, Francis E., 1964-1966	box 2	folder 12	
Bowers, John Z., 1961-1967	box 2	folder 13	
Brant, Selwyn A., 1959-1970	box 2	folder 14	
Broughton, Philip S., 1963-1970	box 2	folder 15	
Brown, C. Victor, 1966-1972	box 2	folder 16	
Burhoe, Ralph W., 1967-1972	box 2	folder 17	
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Conant, J.B., 1967-1971	box 3	folder 23	
Cooper, James Gregory, 1963-1973	box 3	folder 24	
Corner, George, 1963-1973	box 3	folder 25	
Cost of Living	box 3	folder 26	
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Courant Institute of Mathematical Sciences (NYU): Correspondence, 1963-1973	box 3	folder 28	
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Foundation Library Center, 1966-1968	box 4	folder 39	
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\$1959-1973	box 7	folder 95	
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Slichter, Louis, 1966-1973	box 8	folder 101	

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Stibitz, George R., 1968-1970	box 8	folder 104
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Woodford, Peter, 1966-1968	box 9	folder 123
XYZ, 1964-1970	box 9	folder 124
General Correspondence, 1912-1978		
Title/Description	Instances	
General	box 9	folder 125
A-B	box 9	folder 126
С	box 9	folder 127
D	box 9	folder 128
E-F	box 9	folder 129
G	box 9	folder 130
H-J	box 9	folder 131

K-L	box 9	folder 132
M	box 9	folder 133
N-O	box 10	folder 134
P-Q	box 10	folder 135
R	box 10	folder 136
S	box 10	folder 137
T-U-V	box 10	folder 138
W	box 10	folder 139
Probability		
Title/Description	Instances	
Correspondence, 1949-1966	box 10	folder 140
Articles (by Others), 1955-1968	box 10	folder 141
World Wars		
Title/Description	Instances	
Correspondence, 1941-1948	box 10	folder 142
Correspondence, 1941-1948	box 10	folder 142A
Conditions Governing Access note:		
Conditions Governing Access note		
Restricted from scholarly access		
Bowman Committee-Bush Report, 1944	box 10	folder 143
Air Raid Warden	box 10	folder 144
English Trip, 1941	box 10	folder 145
General, 1943-1955	box 10	folder 146
Congratulations, Honors, 1942-1948	box 10	folder 147
Scope and Contents note		
Includes citations for the King?s Medal and the National Medal of Merit		
Congratulations, Honors, 1942-1948	box 10	folder 147A
Conditions Governing Access note: Conditions Governing Access note		
Restricted from scholarly access		
The New Yorker, 1944-1946	box 11	folder 148

#### **Scope and Contents note**

Including Hiroshima article.

Posters	box 11	folder 149	
Naval Research Advisory Committee, 1946	box 11	folder 150	
Passes and Identification Cards	box 11	folder 151	
Newspaper Clippings: Critical Events, 1943-1945	box 11	folder 152	
U.S. Naval Decorations and Code Lists	box 11	folder 153	
World War I Service: Private and Second Lieutenant, Air Service, 1918-1919	box 11	folder 154	

<sup>^</sup> Return to Table of Contents

# Biographical, 1932-1978

Physical Description: 0.5 Cubic Feet

#### **Scope and Contents**

The biographical material, Series 2, is quite limited. Various folders or items within the collection may contain informational notes handwritten by Weaver's daughter Helen while she was reviewing the records and preparing them for shipment to RAC.

Title/Description	Instances	
Biographical: General, 1932-1978	box 12	folder 155
Autobiographical, 1963-1966	box 12	folder 156
Biographical Data	box 12	folder 157
Reviews of Works by Warren Weaver	box 12	folder 158
Occasions Attended, 1938-1957	box 12	folder 159
Occasions Attended, 1961-1962	box 12	folder 160
Obituaries and Condolence Letters, 1978	box 12	folder 161

#### **Scope and Contents note**

Passing of Warren Weaver.

Doodles	box 12	folder 162
Doodle Collection	box 12	folder 163

<sup>^</sup> Return to Table of Contents

# Rockefeller Foundation, 1933-1961

Physical Description: 2.5 Cubic Feet

#### **Scope and Contents**

The Rockefeller Foundation files (Series 3) include a variety of programs essays and reports as well as a limited selection of advisory committee reports. The strength of this series lies with the files documenting the interviews of Warren Weaver conducted by Barbara Rand of the Columbia University Oral History Research Office in 1961. The transcripts available in Series 3 include Weaver's written edits and comments. The final published version of the 1961 oral history is available at Columbia University and in Record Group 13 of the Rockefeller Foundation records at RAC.

#### **Biographical / Historical**

Weaver began his career at the Rockefeller Foundation as Director of the Division of Natural Sciences, 1932-55. He was seconded from the Foundation for a series of civilian service appointments during World War II beginning in 1941. Weaver contracted Meniere's Disease (ear infection) after the war, and was unable to resume his duties with the RF until 1946. He was appointed Director of the Division of Science and Agriculture, 1951-1955, and named Vice President for Natural and Medical Sciences, 1955-59. He retired from the Rockefeller Foundation in 1959.

Title/Description	Instances	
Program Essays (WW)	box 12	folder 164
Notes for Officers, 1939-1951	box 12	folder 165
Notes on Officers? Techniques (Natural Sciences)	box 13	folder 166
Memos by Dean Rusk	box 13	folder 167
Memos by Others	box 13	folder 168
Natural Sciences Program Statements and Reports, 1933-1936	box 13	folder 169
Natural Sciences Program Statements and Reports, 1937-1951	box 13	folder 170
Other Program Reports (Including Agriculture), 1951-1955	box 13	folder 171
Appraisal Committee Reports, 1934-1939	box 13	folder 172
Appraisal Committee Reports, 1958	box 13	folder 173
Charts used by Warren Weaver, 1949-1950	box 14	folder 174
Retirement Speeches, 1949-1953	box 14	folder 175
Humorous memos, poems, articles and writings	box 14	folder 176
Oral History Transcripts of Interviews by Barbara Rand, Oral History Research Office, Columbia University, 1961		
Oral History: Interview 1, 1961 March 15	box 14	folder 177
Oral History: Interview 2, 1961 March 20	box 14	folder 178
Oral History: Interview 3, 1961 March 22	box 14	folder 179
Oral History: Interview 4, 1961 March 30	box 14	folder 180
Oral History: Interview 5, 1961 April 6	box 14	folder 181
Oral History: Interview 6, 1961 April 12	box 14	folder 182

Oral History: Interview 7, 1961 April 27	box 14	folder 183
Oral History: Interview 8, 1961 May 5	box 14	folder 184
Oral History: Interview 9, 1961 May 10	box 14	folder 185
Oral History: Interview 10, 1961 May 17	box 14	folder 186
Oral History, Interview 11, 1961 June 1	box 15	folder 187
Oral History, Interview 12, 1961 June 6	box 15	folder 188
Oral History, Interview 14, 1961 June 16	box 15	folder 189
Oral History, Interview 15, 1961 June 28	box 15	folder 190
J. George Harrar. Strategy Toward the Conquest of Hunger. New York: Rockefeller Foundation, 1967	box 15	folder 191
Scope and Contents note		
Rockefeller Foundation, 1967 (w/personal inscription from JGH to WW)		
Mexico Trip, 1946 September-October	box 15	folder 523
Scope and Contents note		
photograph album		
Mexican Agricultural Program Reports [Spanish], 1947-1949	box 15	folder 192
Mexican Agricultural Program	box 16	folder 193
Mexican Agricultural Program	box 16	folder 194
Mexican Agricultural Program, 1956	box 16	folder 195

<sup>^</sup> Return to Table of Contents

# **Travel, 1932-1961**

Physical Description: 1.5 Cubic Feet

#### **Scope and Contents**

Series 4 documents Weaver's travels from 1932-1961 including a chronological record of his travel for the period 1932-1938 and travel diaries for trips to Poland (1958) and England (1961).

The series also contains a variety of travel ephemera and memorabilia including maps, guidebooks, and souvenirs primarily from Weaver's world tour in 1961.

Title/Description	Instances	
Chronological Record of Travel, 1932-1938	box 17	folder 196
Travel Diaries and Letters, 1941-1957	box 17	folder 197

Travel Diary: England, 1961 March 3-April 28	box 17	folder 198	
Scope and Contents note			
As member of official scientific mission appointed by President Roosevelt from the membership of the National Defense Research Committee.			
Travel Diary: England (copy), 1961 March 3-April 28	box 17	folder 199	
Scope and Contents note			
As member of official scientific mission appointed by President Roosevelt from the membership of the National Defense Research Committee.			
Travel Diary: Poland, 1958	box 17	folder 200	
Travel Ephemera and Memorabilia			
Europe, 1938	box 17	folder 201	
Europe, Spring 1948	box 17	folder 202	
Mexico and South America, 1946-1947	box 18	folder 203	
South America, 1949 September-October	box 18	folder 204	
Miscellaneous Travel: India, Israel, Kenya, 1954, 1959	box 18	folder 205	
Israel: Guidebooks, Maps, Souvenirs, 1955	box 18	folder 206	
Europe, Poland: News Clippings and Photographs, 1957	box 18	folder 207	
Burma, undated	box 18	folder 208	
Japan, undated	box 18	folder 209	
World Tour 1961: Japan	box 18	folder 210	
World Tour 1961: Tokyo News Conference	box 18	folder 211	
World Tour 1961: Souvenirs	box 18	folder 212	
World Tour 1961: Tokyo	box 18	folder 213	
World Tour 1961: Kyoto	box 18	folder 214	
World Tour 1961: Nikko	box 18	folder 215	
World Tour 1961: Guidebooks, Maps, Souvenirs	box 19	folder 216	
World Tour 1961: Guidebooks, Maps, Souvenirs	box 19	folder 217	
World Tour 1961: Guidebooks, Maps, Souvenirs	box 19	folder 218	
Passports	box 19	folder 219	
Passport Applications and Documentation, 1932-1959	box 19	folder 220	
Passports, Immunization Records	box 19	folder 221	

# The Salk Institute for Biological Studies, 1961-1973

**Physical Description**: 4 Cubic Feet

#### **Scope and Contents**

Series 5 contains meeting records, correspondence, reports and publicity and fundraising files documenting Weaver's activities at the Salk Institute of Biological Studies where he served as a Trustee, Chairman of the Board, and as a non-resident fellow.

Title/Description	Instances		
Board of Trustees: By-Laws, 1961-1967	box 20	folder 222	
Board of Trustees: Budgets and Costs, 1964-1966	box 20	folder 223	
Board of Trustees: Membership, 1963-1967	box 20	folder 224	
Board of Trustees: Minutes, 1963-1964	box 20	folder 225	
Board of Trustees: Minutes, 1965-1968	box 20	folder 226	
Board of Trustees: Minutes and Agendas, 1968	box 21	folder 227	
Board of Trustees: Minutes, 1968-1971	box 21	folder 228	
Trustees: Phone and Addresses of Staff	box 21	folder 229	

#### **Conditions Governing Access note:**

#### **Conditions Governing Access note**

Permanently Restricted - Confidential Material - Personnel

Fellows: Director's Report to Fellows, 1971	box 21	folder 230	
Fellows: Conference Committee	box 21	folder 231	
Fellows: Meetings, 1962-1963	box 22	folder 232	
Fellows: Meetings, 1965-1967	box 22	folder 233	
Fellows: Meetings, 1968	box 22	folder 234	
Fellows: Meetings, 1964-1973	box 22	folder 235	
Fellows: New Fellows, 1964-1965	box 22	folder 236	
General Correspondence, 1966-1973	box 23	folder 237	
Biology and Humanities, 1969	box 23	folder 238	
Council for Biology in Human Affairs, 1970	box 23	folder 239	
Council for Biology in Human Affairs: Papers, 1970	box 23	folder 240	
Neuroscience, 1969-1971	box 23	folder 241	

Bronowski, Bruno, 1961-1973

	box 23	folder 242
Cancer Research	box 23	folder 243
Cohn, Mel, 1967-1970	box 23	folder 244
Conn, George, 1964-1968	box 24	folder 245
Crichton, Michael, 1969	box 24	folder 246
Fletcher, F.T., 1965-1969	box 24	folder 247
Glazier, Bill, 1962-1964	box 24	folder 248
Glazier, Bill, 1965-1973	box 24	folder 249
Guillemin, Roger, 1970	box 24	folder 250
de Hoffman, Frederic, 1971-1973	box 24	folder 251
Kinzel, Gus, 1964-1972	box 24	folder 252
Mang, Robert A., 1969-1970	box 24	folder 253
O?Connor, Basil, 1962-1971	box 24	folder 254
Piel, Gerard, 1965-1966	box 24	folder 255
Salk, Jonas, 1962-1965	box 24	folder 256
Salk, Jonas, 1962-1971	box 25	folder 257
Slater, Joseph, 1968-1971	box 25	folder 258
Szilard, Leo, 1957, 1964-1965	box 25	folder 259
Weaver (Letters for)	box 25	folder 260
Memoranda, 1969	box 25	folder 261
Future of Salk Institute: Report, 1967	box 25	folder 262
Future of Salk Institute: Working Group Report, 1968	box 25	folder 263
Program, Policy, Plans, Budget, 1962-1967	box 26	folder 264
Library, 1964	box 26	folder 265
Fundraising, 1966	box 26	folder 266
Fundraising: Publicity, 1965-1966	box 26	folder 267
Appeals to Foundations, 1963-1969	box 26	folder 268
Appeals to Foundations, 1969	box 26	folder 269
Salk and Sloan Foundation, 1963-1964	box 26	folder 270
Publicity, 1963-1966	box 27	folder 271
Newsletters, 1966-1967	box 27	folder 272
Photographs, 1963-1966	box 27	folder 273

Articles and Speeches: Salk and O'Connor, 1961-1965	box 27	folder 274	
Warren Weaver Financial, 1963-1966	box 27	folder 275	
Salk Institute Expenses, 1962-1965	box 27	folder 276	

# Alfred P. Sloan Foundation, 1959-1974

Physical Description: 3.5 Cubic Feet

#### **Scope and Contents**

The records in Series 6 include documentation of select Board of Trustees meetings, staff meetings, and annual reports during Weaver's tenure at Sloan. This series also contains correspondence and reports, principally Weaver's correspondence with Alfred P. Sloan from 1959-1966.

Title/Description	Instances	
General, 1966-1973	box 27	folder 277
Case, Everett, 1962-1971	box 27	folder 278
Program Committee, 1966-1967	box 28	folder 279
Donner Frederic, 1968-1970	box 28	folder 280
Farinholt, L.H., 1966-1971	box 28	folder 281
Hermann, Robert, 1966-1970	box 28	folder 282
Josephs, Devereux, 1966-1967	box 28	folder 283
Klivington, Ken, 1969-1974	box 28	folder 284
Kreidler, Robert, 1966-1971	box 28	folder 285
Mathematics Memo	box 28	folder 286

#### **Scope and Contents note**

Mathematics Memo, Evaluative comments on A.P. Sloan Foundation Grants for Mathematics.

Mathematics Proposal, 1977	box 28	folder 287
Neurosciences, 1970-1972	box 29	folder 288
New Program, 1969	box 29	folder 289
Procedures on Processing New Grants, 1971	box 29	folder 290
Wessell, Nils, 1968-1974	box 29	folder 291
Zurcher, Arnold, 1967-1968	box 29	folder 292
Special Report to Trustees: ?A Proposed Operational Concept for	box 29	folder 293

the Alfred P. Sloan Foundation", 1969

Mathematics Program, 1966-1968	box 29	folder 294
Biology of Behavior, 1968	box 29	folder 295
Project Advice, 1966-1971	box 29	folder 296
Hampshire College, 1967	box 30	folder 297
Harvard Project: Physics, 1966-1968	box 30	folder 298
Staff Meeting Minutes, 1966 September 9-1967 June 29	box 30	folder 299
Staff Meeting Minutes, 1967 July 10-December 29	box 30	folder 300
Staff Meeting Minutes, 1968 January 4-June 26	box 30	folder 301
Staff Meeting Minutes, 1968 July 3-December 24	box 30	folder 302
Business Memos, 1960-1961	box 30	folder 303
Secretarial Services, 1966-1973	box 30	folder 304
Contractual Agreements, 1957-1975	box 31	folder 305
Conditions Governing Access note:		
<b>Conditions Governing Access note</b>		
Permanently Restricted - Confidential Material - Personnel		
Disbursements: Five Year Projection: Income Authorization and Disbursement, 1971	box 31	folder 306
Expense Account, 1962-1968	box 31	folder 307
Program and Policy, 1962-1966	box 31	folder 308
Mr. Sloan: WW Personal, 1959-1966	box 31	folder 309
Memos to Mr. Sloan, 1959-1960	box 31	folder 310
Memos to Mr. Sloan, 1961	box 31	folder 311
Memos to Mr. Sloan, 1962	box 31	folder 312
Memos to Mr. Sloan, 1963	box 32	folder 313
Memos to Mr. Sloan, 1964	box 32	folder 314
Memos to Mr. Sloan, 1965-1966	box 32	folder 315
Executive and Policy Committee, 1966	box 32	folder 316
Board of Trustees Meetings, 1966	box 32	folder 317
Board of Trustees Meetings, 1967 April	box 32	folder 318
Board of Trustees Meetings, 1967 July	box 32	folder 319
Board of Trustees Meetings, 1967 October	box 32	folder 320
Board of Trustees Meetings, 1968 January	box 32	folder 321
Board of Trustees Meetings, 1968 April		

	box 32	folder 322	
Board of Trustees Meetings, 1968 July	box 33	folder 323	
Board of Trustees Meetings, 1968 October	box 33	folder 324	
Board of Trustees Meetings, 1970-1971	box 33	folder 325	
Alfred P. Sloan Foundation Annual Reports, 1955-1960	box 33	folder 326	
Alfred P. Sloan Foundation Annual Reports, 1961-1965	box 34	folder 327	
Alfred P. Sloan Foundation Annual Reports, 1966-1968	box 34	folder 328	
Alfred P. Sloan Foundation Annual Reports, 1969-1971	box 34	folder 329	
Alfred P. Sloan Foundation Annual Reports, 1972-1974	box 35	folder 330	

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### Sloan Kettering Institute, 1959-1973

Physical Description: 0.8 Cubic Feet

#### **Scope and Contents**

The records in Series 7 primarily document the mid to late 1960s.

#### **Biographical / Historical**

Weaver served Sloan-Kettering Institute in a variety of administrative capacities including as a member of the Board of Scientific Consultants, 1951-1954; Trustee, 1954-1967; Chairman of the Committee on Scientific Policy, 1955-59; Executive Committee member, 1956-1967; and Vice President, 1958-1959.

His service to Memorial Hospital and Memorial Sloan-Kettering Cancer included as a member of the Board, Memorial Center for Cancer and Allied Diseases, 1958-1960; Vice Chairman of the Board, Chairman of the Committee on Scientific Policy, Memorial Sloan-Kettering Cancer Center, 1960-1967; and as a member of the Executive Committee, Memorial Hospital for Cancer and Allied Diseases, 1960-1967.

Title/Description	Instances	
General, 1966-1973	box 35	folder 331
Biomathematics, 1966-1968	box 35	folder 332
Committee on Scientific Policy, 1966-1968	box 35	folder 333
Board of Scientific Consultants, 1966	box 35	folder 334
Horsfall, Frank, 1959-1968	box 35	folder 335
Trustees, 1968-1973	box 35	folder 336
Minutes: Center and Hospital Executive Committees, 1966-1968	box 36	folder 337
Minutes: MSKCC: Board of Trustees, 1966-1967	box 36	folder 338
Minutes: Memorial Hospital, 1966-1967	box 36	folder 339

Minutes: Sloan-Kettering Institute: Board of Trustees, 1967	box 36	folder 340	
Minutes: Sloan-Kettering Institute, 1966-1967	box 36	folder 341	
Finances, 1966-1967	box 36	folder 342	

# **General Files, 1932-1979**

Physical Description: 3.5 Cubic Feet

### **Scope and Contents**

Title/Description

The General Files contain correspondence arranged alphabetically by subject or name of correspondent. The majority of the material presented in Series 8 relates to Weaver's personal writings, books and articles.

**Instances** 

Tiuc/Description	Histalices	
General, 1964-1967	box 36	folder 343
Addresses and Phone Numbers	box 36	folder 344
Conditions Governing Access note: Conditions Governing Access note		
Permanently Restricted - Confidential Material - Personnel		
American Academy of Arts & Sciences: Business, 1964-1966	box 36	folder 345
American Academy of Arts & Sciences: Committee, 1965-1967	box 36	folder 346
American Academy of Arts & Sciences: Voss, John, 1965-1968	box 36	folder 347
Andrews, Emerson F., 1964-1966	box 36	folder 348
Astronomy and Space, 1949-1963	box 36	folder 349
AT&T Show, 1962	box 37	folder 350
The Attractiveness of Dessert, 1960	box 37	folder 351
Basic Research, 1959	box 37	folder 352
Biology and Biochemistry, 1945-1965	box 37	folder 353
Biology in Human Affairs, 1974	box 37	folder 354
Bronowski, Jacob, 1962-1975	box 37	folder 355
Bronowski, Jacob: Extracts from the Identity of Man	box 37	folder 356
Business and Royalty Reports, 1970-1972	box 37	folder 357
Careers in Science (published in 1965)	box 38	folder 358
Century Club, 1963-1973	box 38	folder 359
Citations, 1952-1971	box 38	folder 360

Communication: Speech, Words, 1953	box 38	folder 361
	box 38	folder 362
Communication Theory, 1949-1956	box 38	folder 363
Computers, Information	box 38	folder 364
Criticisms, 1964-1966	box 38	folder 365
Equipment: Indoors	box 38	folder 366
Equipment: Outdoors	box 38	folder 367
Food, Population, Energy, 1953-1961	box 38	folder 368
Fosdick, Raymond B., 1965	box 38	folder 369
Geology, 1957-1969	box 38	folder 370
Harper and Row, 1966-1973	box 38	folder 371
Harrar and Rockefeller Foundation, 1962-1966	box 39	folder 372
Insurance: Rockefeller Foundation & Sloan Foundation	box 39	folder 373
Conditions Governing Access note:		
<b>Conditions Governing Access note</b>		
Permanently Restricted - Confidential Material - Personnel		
Lady Luck: Correspondence, 1963-1976	box 39	folder 374
Math, Games, Puzzles	box 39	folder 375
Math, Nature of Proof, 1976	box 39	folder 376
Medical Education	box 39	folder 377
Miscellaneous, 1944-1978	box 39	folder 378
Molecular Biology, 1949-1972	box 40	folder 379
Mouse Cartoon, 1956	box 40	folder 380
Mouse Cartoon, 1956	box 40	folder 381
Mouse Cartoon, 1956	box 40	folder 382
Mouse Cartoon, 1956	box 40	folder 383
	box 40	folder 383 folder 384
Mouse Cartoon, 1956		
Mouse Cartoon, 1956  Mouse Cartoon, 1956	box 40	folder 384
Mouse Cartoon, 1956  Mouse Cartoon, 1956  Oral History (Columbia University), 1961-1965	box 40	folder 384 folder 385
Mouse Cartoon, 1956  Mouse Cartoon, 1956  Oral History (Columbia University), 1961-1965  Origin of the Elements, 1967	box 40 box 40 box 40	folder 384 folder 385 folder 386

Philosophy of Science, 1965-1966	box 40	folder 390
Physics, 1948-1963	box 40	folder 391
Priorities in Science, 1964-1969	box 41	folder 392
Probability Research, 1938-1956	box 41	folder 393
Publications	box 41	folder 394
Publications	box 41	folder 395
Public Understanding of Science, 1959-1973	box 42	folder 396
Real Estate Tax, 1959	box 42	folder 397
Conditions Governing Access note: Conditions Governing Access note  Permanently Restricted - Confidential Material ? Financial		
<u> </u>	box 42	foldon 200
Reprint Information, 1967-1969	box 42	folder 398
Reprint List  Reprint List	box 42	folder 399 folder 400
Conditions Governing Access note: Conditions Governing Access note  Permanently Restricted - Confidential Material ? Personnel	00.1	10142 100
Rice (International Rice Research Institute), 1962-1973	box 42	folder 401
Rockefeller Foundation: Pre-World War II, Chapter 6, 1961-1968	box 42	folder 402
Science, 1966-1967	box 42	folder 403
Science: Research and Writings, 1950-1971	box 42	folder 404
Science and Imagination: Basic Books	box 42	folder 405
Science and Imagination: Basic Books: Letters, 1967-1968	box 42	folder 406
Science and Imagination: Basic Books: Lynch, 1967	box 42	folder 407
Science and Imagination: Basic Books: Reviews, 1967-1968	box 42	folder 408
Science and Imagination: Basic Books: Rosenthal, 1965-1968	box 42	folder 409
Science and Imagination: Basic Books: Royalties, 1967-1969	box 42	folder 410
Science and Government, 1959-1978	box 42	folder 411
Science and Religion, 1946-1968	box 43	folder 412
Science and War, 1961-1980	box 43	folder 413
Scribner Book: Letters, 1966-1967	box 43	folder 414
Scribner Book: Memoirs, RF Diary, 1932-1952	box 43	folder 415

Scribner Book: Scene of Change, 1969-1971	box 43	folder 416	
Shilen, Ronald, 1963-1965	box 43	folder 417	
Space Program, 1966-1971	box 43	folder 418	
Two Cultures (C.P. Snow), 1959-1964	box 43	folder 419	
Units: Conversion Table, Basic Data	box 43	folder 420	
Watergate, 1974	box 43	folder 421	
Willis, Ann Deming, 1966	box 43	folder 422	
Women and Science, 1975	box 43	folder 423	

# Speeches and Articles, 1937-1966

Physical Description: 1 Cubic Feet

### **Scope and Contents**

Contains speeches, articles, notes and speech cards maintained together as received by RAC. Weaver's speech cards, loosely arranged chronologically by year (1939-1966), are a set of handwritten index cards presumably used as prompts during his presentations and addresses.

Title/Description	Instances	
Material for Speeches and Articles	box 44	folder 424
Speeches or Articles Not Published	box 44	folder 425
Manuscripts of Speeches and Articles Published	box 44	folder 426
Speeches: General	box 44	folder 427
Speeches: Mary Andrews College of First Aid	box 44	folder 428
Speeches: Education	box 44	folder 429
Speeches: Introductory Information	box 44	folder 430
Speeches: Radiation, Defense, Security, 1947-1957	box 44	folder 431
Rockefeller Foundation Program Trips, 1937-1959	box 44	folder 432
Speeches: Cards, 1939-1954	box 44	folder 433
Speeches: Cards, 1954-1955	box 44	folder 434
Speeches: Cards, 1956-1957	box 44	folder 435
Speeches: Cards, 1958-1961	box 45	folder 436
Speeches: Cards, 1961-1964	box 45	folder 437
Speeches: Cards, 1961-1964	box 45	folder 438

Speeches: Cards, 1964-1966	box 45	folder 439
Speeches: Cards, undated	box 46	folder 440

# Awards, Citations and Degrees, 1936-1969

Physical Description: 2 Cubic Feet

### **Scope and Contents**

Series 10 Awards, Citations and Degrees contains documentation of a selection of the honors Weaver received including most notably the Public Welfare Medal from the National Academy of Sciences (1957), the first Arches of Science Award from the Pacific Science Center (1965), the UNESCO Kalinga Prize (1965) and the citation for the Medal for Merit from the United States.

Title/Description	Instances	
Honors, 1948-1965	box 46	folder 441
Arches of Science: Notification and Press Conference, 1965	box 46	folder 442
Arches of Science: Press Clippings, 1965	box 46	folder 443
Arches of Science: Ceremony, 1965	box 46	folder 444
Arches of Science: Tributes and Telegrams, 1965	box 46	folder 445
Arches of Science: Congratulatory Letters and Telegrams, 1965	box 46	folder 446
Arches of Science: Photographs, 1965	box 46	folder 447
Arches of Science: Recipient, 1965	box 46	folder 448
Arches of Science, 1966	box 46	folder 449
National Academy of Sciences: Congratulations, 1969	box 47	folder 450
Notes of Appreciation, 1958-1967	box 47	folder 451
UNESCO: Kalinga Prize, 1965-1967	box 47	folder 452
UNESCO: Kalinga Prize: News Clippings, 1965-1966	box 47	folder 453
UNESCO	box 47	folder 454
Christian Michelsons Institute: Correspondence Membership, Bergen, Norway, 1936 January 21	box 48	
Scientific American, 1945 August 28	box 48	
Department of the Navy: Appreciation for Service as a Member of the Naval Research Advisory Committee, 1946-1947	box 48	
National Medal of Merit Citation, 1948 January 2	box 48	
University of Sao Paolo, Brazil (Sc.D.), 1949	box 48	

Adventures in Science Audio Recording: Warren Weaver and Dean Rusk, 1953 January 6

box 48

#### **Conditions Governing Access note:**

#### **Conditions Governing Access note**

RAC is unable to provide access to obsolete media and original digital media. In addition separated media may not yet have undergone stabilization procedures. When feasible, a digital surrogate may be created via special order. All applicable charges will apply. See RAC Head of Archival Services or RAC Head of Digital Programs for details.

• •	
American Philosophical Society: Membership Certificate, 1954 April 21	box 48
Clipper Club: Membership Certificate, 1955 April 21	box 48
Invitation to the Inauguration of U.S. President Dwight D. Eisenhower, 1957	box 48
National Academy of Sciences Public Welfare Medal: Press Release, 1957	box 48
American Academy of Arts and Sciences, Fellow, 1958 May 14	box 48
Rockefeller Foundation: Identification Card, 1958-1961	box 48
National Association of Science Writers: Honorary Member, 1959	box 48
National Science Foundation: Appointment to the National Science Board (term ending 1960 May 10)	box 48
New York University Courant Institute of Medical Sciences: Remarks on the Occasion of the \$2,750 grant, 1961 October 20	box 48
Drexel University of Technology: Doctor of Science Degree (Honorary), 1961 December 5	box 48
Southern Research Institute: Honorary Member of Advisory Council, 1962	box 48
RPI: Doctor of Engineering (D.E.), 1962 June 8	box 48
University of Rochester (I.H.D.), 1963	box 48
New York Academy of Sciences: Membership Certificate, 1963 September 20	box 48
University of Pittsburgh: Doctor of Science Degree (Honorary), 1964 June 1	box 48
New York University: Doctor of Science (Honorary), 1964 June 10	box 48
New York Academy of Sciences: Fellow, 1964 December 2	box 48
New York Times Obituaries, 1966 July 20	box 48
Alfred P. Sloan Foundation: Tribute, 1967 July 17	box 48

American Association for the Advancement of Science: 50 Year Member Certificate, 1968 October 29	box 48
Salk Institute for Biological Studies: Trustee Emeritus Resolution, 1968 December 19	box 48
National Academy of Sciences: Membership Certificate, 1969 April 29	box 48
Memorial Sloan Kettering Cancer Center: On the Occasion of Resignation	box 48

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# **Manuscripts**, 1963-1965

Physical Description: 2 Cubic Feet

### **Scope and Contents**

Series 11 Manuscripts and Series 12 Reprints document Weaver's writings, articles, collaborations and publications including Lady Luck: The Theory of Probability (1963) and U.S. Philanthropic Foundations: Their History, Structure, Management and Record (1967).

Title/Description	Instances	
Lady Luck Manuscript (with written edits and revisions)	box 49	folder 455
Lady Luck Manuscript (typed)	box 49	folder 456
Lady Luck Illustrations	box 50	folder 456.1

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#### **Conditions Governing Access note**

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### **Reprints, 1920-1987 (bulk)**

Physical Description: 6 Cubic Feet

#### **Scope and Contents**

Series 11 Manuscripts and Series 12 Reprints document Weaver's writings, articles, collaborations and publications including Lady Luck: The Theory of Probability (1963) and U.S. Philanthropic Foundations: Their History, Structure, Management and Record (1967). The contents include, but are not limited to those works listed in the reprints indexes.

#### **Arrangement**

The reprints are arranged into two subseries containing works written by Warren Weaver, and works written by other scholars and academicians that were collected by Weaver. Each subseries is loosely arranged chronologically.

### Works by Warren Weaver

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Works by Warren Weaver, 1920-1927	box 52	folder 470
Physical Review: The Pressure of Sound, 1920 May	box 52	folder 470
The American Mathematical Monthly: Forecast, 1920 May	box 52	folder 470
The American Mathematical Monthly: The Average Reading Vocabulary: An Application of Bayes' Theorem, 1920 October	box 52	folder 470
The Physical Review: The Kinetic Theory of Magnetism, 1920 November	box 52	folder 470
The Physical Review (WW with Max Mason): The Settling of Small Particles in a Fluid, 1924 March	box 52	folder 470
The Physical Review: The Duration of the Transient State in the Settling of Small Particles, 1926 April	box 52	folder 470
Zetschrift Fur Phyisik: Die Diffusion kleiner Teilchen in einer Flussigkeit (The Diffusion of Small Particles in a Fluid), 1927	box 52	folder 470
Works by Warren Weaver, 1928-1929	box 52	folder 471
The Physical Review (WW with H.W. March): Diffusion Problem for a Solid in Contact with a Stirred Liquid, 1928 June	box 52	folder 471
Zetschrift Fur Phyisik: Die Sedimentationszeit kleiner Teilchen in einer Flussigkeit (The Sedimentation of Small Particles in a Fluid), 1928	box 52	folder 471

The American Mathematical Monthly: A Debate on the Theory of Relativity, 1929 January	box 52	folder 471	
The Scientific Monthly: Science and Imagination, 1929 November	box 52	folder 471	
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The American Mathematical Monthly: Mathematics and the Problem of Ore Location, 1930 April	box 52	folder 472	
Bulletin of the Associated State Engineering Societies: Geophysical Prospecting, 1930 July	box 52	folder 472	
The Scientific Monthly: The Reign of Probability, 1930 November	box 52	folder 472	
Recent Trends in American College Education (Proceedings of the Institute for Administrative Officers of Higher Education): The New Curriculum at the University of Wisconsin, 1931	box 52	folder 472	
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Journal of Mathematics and Physics: Uplift Pressure on Dams, 1932 June	box 53	folder 473	
The American Mathematical Monthly: Conformal Representation with Applications to Problems of Applied Mathematics, 1932 October	box 53	folder 473	
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The American Mathematical Monthly: Review: Mathematics of Modern Engineering, 1937 January	box 53	folder 474	
The American Mathematical Monthly: Lewis Carrol and a Geometrical Paradox, 1938 April	box 53	folder 474	
Lewis Carrol: Correspondence Numbers, 1940 February	box 53	folder 474	
The Riverside Church: A Scientist's Prayer, 1942 February 1	box 53	folder 474	
Applied Mathematics Panel, National Defense Research Committee, The: Estimation of Balloon Barrage Probabilities and Similar Problems, 1943 May 14	box 53	folder 474	
Society for Freedom in Sciences: Free Science, 1945 November	box 53	folder 474	
Address delivered at Quarterly Sales Committee Dinner, United State Rubber Company: Science, 1946 December 10	box 53	folder 474	
Works by Warren Weaver, 1944-1948	box 53	folder 474A	
Conditions Governing Access note:			

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Works by Warren Weaver, 1948	box 53	folder 475
Reviews of Modern Physics: Statistical Freedom of the Will, 1948 January	box 53	folder 475
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Population and Food, 1949	box 53	folder 476
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Scientific Monthly: Reply to McConnell's letter re Extrasensory Perception, 1950 February	box 53	folder 477
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Science: Questions for the September Conference, 1951 August 31	box 53	folder 477
The Princeton University Library Chronicle: Alice's Adventures in Wonderland: Its Origin and Its Author, 1951 Autumn	box 53	folder 477
New York Herald Tribune Annual Forum: A Community Tries to Be Sensible, 1951 October 23	box 53	folder 477
American Academy of Arts and Sciences: Report on Arden House Meeting, 1951 November 2	box 53	folder 477
The Scientific Monthly: Protein Structure Studies, 1951 December	box 53	folder 477
Statement for the Advisory Committee for Agricultural Activities (consisting of Stakman, Bradfield and Mangelsdorf, with collaboration from Weaver, Harrar and Miller): The World Food Problem, Agriculture and the Rockefeller Foundation, 1951	box 53	folder 477
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Scientific American: Statistics, 1952 January	box 54	folder 478
ed. Lyman Bryson, Harper and Brothers Publishers: Facing the Future's Risks (Probability and Statistics), 1952	box 54	folder 478

A Review of the General Semantics: Recent Contributions to the Mathematical Theory of Communication, 1953 Summer	box 54	folder 478
Scientific American: Fundamental Questions in Science, 1953 September	box 54	folder 478
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The Journal of the Patent Office Society: The Patent Office Problem, 1955 September	box 54	folder 479
Science: Science and People, 1955 December	box 54	folder 479
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American Documentation: The Patent Office Problem, 1955	box 54	folder 479
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Challenge: How Radiation Can Affect Our Children (Interview with WW), 1956 October	box 54	folder 480
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National Academy of Sciences, National Research Council: Report of the Committee on Genetic Effects of Atomic Radiation (WW Chairman & Author), 1956	box 54	folder 480
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Science: Communicative Accuracy, 1958 March 7	box 54	folder 482
Science: How Big is Too Big?, 1958 July 18	box 54	folder 482
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Proceedings of the Robert A. Welch Foundation Conferences on Chemical Research: Science and the World of Scholarship, 1959 November 16-18	box 55	folder 483
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Dartmouth Conference: Issues of Man and His Environment, 1960 September 8-10	box 55	folder 484-486
Academy Reporter (Editorial): Science and Older Wisdom, 1960 October	box 55	folder 484-486
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Think: Science: Why Every Man Should Take More Interest in Science, 1960 December	box 55	folder 484-486
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Address given at the Congregational Church, New Milford, CT: Science and Religion, 1962 May 8	box 56	folder 489
Foundation News (Bulletin of Foundation Library Center): Thoughts on Philanthropy and Philanthropoids, 1962 May	box 56	folder 489
Science (Editorial): New Institute for Biological Studies at San Diego, 1962 June 1	box 56	folder 489
Thoughts on the Fourth Morning, 1962 June 28	box 56	folder 489
New Scientist: What a Layman Needs to Know About Science (Drafted by John Lear, from material written by WW), 1962 June	box 56	folder 489
Saturday Review: What a Moon Ticket Will Buy, 1962 August 4	box 56	folder 489
Houston Chronicle: Science for Everybody, 1962 September 16	box 56	folder 489
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Industrial Management Magazine: Probability: The Odds are High that It Effects You, 1962 September	box 56	folder 489
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Annals of the Japan Association for Philosophy of Science: The Emerging Unity of Science, 1962	box 56	folder 489

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University of Wisconsin (Van Vleck Hall Dedication): Edward Burr Van Vleck, 1963 May	box 56	folder 490
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Unpublished: Where Do We Go From Here?, 1969 June	box 57	folder 494
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The Library Chronicle of the University of Texas: In Pursuit of Lewis Carroll, 1970 November	box 57	folder 495
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AAAS Bulletin: Science in a Troubled Culture: A Prescription, 1972 February	box 57	folder 495
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Alfred P. Sloan Foundation: Alfred P. Sloan, Jr. Philanthopist, 1975 October	box 57	folder 495
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Gruenberg, Benjamin C.: Journal of Educational Method: Scientific Education as a Defense Against Propoganda and Dogma, 1925 November	box 57	folder 496

Sommerfeld, A.: Bulletin of the Calcutta Mathematical Society: Uber Die Hauptschnitte Eines Polydimensionalen Wurfels, 1930	box 57	folder 496
Gruenberg, Benjamin C.: School and Society: Hypothesis and Doctrine in Science Teaching, 1933 May 13	box 57	folder 496
Slichter, Charles S.: Sigma XI Quarterly: Polymaths: Technicians, Specialists and Genius, 1933 September	box 57	folder 496
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Scripta Mathematica: A Physicist's Second Reaction to Megenlehre, 1934	box 57	folder 496
Noll, Victor H.: Journal of Abnormal and Social Psychology: Measuring the Scientific Attitude, 1935 July-September	box 57	folder 496
Levy, H.: Determinism and Man, 1935	box 57	folder 496
Slichter, Charles S.: American Mathematical Monthly: The Principia and the Modern Age, 1937 August-September	box 57	folder 496
Van Vleck, J.H.: Biographical Memoirs: Charles Elwood Mendenhall, 1937	box 57	folder 496
Benford, Frank: Proceedings of the American Philosophical Society: The Law of Anormalous Numbers, 1938 March	box 57	folder 496
Gruenberg, Benjamin C.: Science Education: The Scientific Temper and Social Values, 1938 March	box 57	folder 496
Morris, Charles W.: The University of Chicago Press: Foundations of the Theory of Signs, 1938	box 57	folder 496
Watson, E.C.: American Physics Teacher/American Journal of Physics, Series of 75 installments: Reproductions of Prints, Drawings and Paintings of Interest in the History of Physics, 1938-1956	box 57	folder 496
Huxley, J.S., C.S. Webb and A.T. Best: Nature: Temporary Poikilotherm in Birds, 1939 April 22	box 57	folder 496
Watson, E.C.: Osiris: The Early Days of the Academie des Sciences as Portrayed in the Engravings of Sebastien Le Clerc, 1939	box 57	folder 496
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Compton, Karl T.: The Scientific Monthly: Religion in a Scientific Era, 1940 January	box 57	folder 497

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Slichter, Louis B.: Bulletin of the Geological Society of America: Cooling of the Earth, 1941 April 1	box 57	folder 497	
Huxley, J.S.: Nature: Degeneration and Relict Adaptation, 1942 June 20	box 57	folder 497	
Birkhoff, George D.: Bulletin of the American Mathematical Society: Edward Burr Van Vleck-In Memoriam, 1944 January	box 57	folder 497	
Polanyi, Michael: Philosophical Society Meeting: Science and the Modern Crisis, 1944 November 14	box 57	folder 497	
Cossar, J., and A. Erdelyi: Admirality Computing Service: Dictionary of Laplace Transforms, Part I, 1944	box 57	folder 497	
Polanyi, Michael: The Scientific Monthly: The Autonomy of Science, 1945 February	box 57	folder 497	
Wald, Abraham: Annals of Mathematics: Generalization of a Theorem by v. Neumann Concerning Zero Sum Two Person Games, 1945 April	box 57	folder 497	
The Sloan-Kettering Institute for Cancer Reasearch: The Weeds and the Grass: Research for the Conquest of Cancer, 1948	box 57	folder 497	
Dingle, Hebert: Science Progress: Science and Professor Bernal, 1949 April	box 57	folder 497	
Planck, Max: Science: The Meaning and Limits of Exact Science, 1949 September 30	box 57	folder 497	
Shannon, C.E.: Bell System Technical Journal: Communication Theory of Secrecy Systems, 1949 October	box 57	folder 497	
Dingle, Hebert: Thinker's Digest: The Nature of Scientific Philosophy, 1949 Winter	box 57	folder 497	
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Langmuir, Irving: Science: The American Association for the Advancement of Science, Common Sense, and Decency, 1943 January 1	box 58	folder 498	
Osborn, Henry Fairfield: Science: The New York Zoological Society, 1943 March 19	box 58	folder 498	
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Hook, Sidney: The New York Times: The Scientist in Politics, 1950 April 9	box 58	folder 499	
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Bridgman, P.W.: The British Journal for the Philosophy of Science: The Nature of Some of Our Future Physical Concepts, 1950 April	box 58	folder 499	
Houston, W.V.: Physics Today: Physics for Adventure, 1950 June	box 58	folder 499	
Huff, Darell: Harper's Weekly: How to Lie with Statistics, 1950 August	box 58	folder 499	
Fisher, R.A.: Cambridge University Press: Creative Aspects of Natural Law, 1950 November 2	box 58	folder 499	
McCulloch, Warren S.: Tire' de Dialectica: Why the Mind is in the Head?, 1950	box 58	folder 499	
Swann, W.F.G.: Journal of the Franklin Instutite: Science Today and Yesterday, 1951 January	box 58	folder 499	
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Moe, Henry Allen: The Pacific Spectator: The Power of Freedom, 1951 Autumn	box 58	folder 499	
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Institute for the Unity of Science (Proceedings of the American Academy of Arts and Sciences): Contributions, The Analysis and Synthesis of Knowledge, 1952 May	box 58	folder 500	
Bartlett, M.S.: Biometrika: The Statistical Significance of Odd Bits of Information, 1952 December	box 58	folder 500	
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Bar-Hillel, Yehoshua: Language: A Quasi-Arithmetical Notation for Syntactic Description, 1953 January-March	box 58	folder 500	
Weis, Paul: Journal of Mount Sinai Hospital: Medicine and Society: The Biological Foundations, 1953 March-April	box 58	folder 500	
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Synthese: Proceedings of the Ninth International Significant Summer Conference, 1953 August 10-15	box 58	folder 500	
Brillouin, L.: Journal of Applied Physics: The Negentropy Principle of Information, 1953 September	box 58	folder 500	
Burks, Arthur W., and Jesse B. Wright: Proceedings of the I.R.E.: Theory of Logical Nets, 1953 October	box 58	folder 500	
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Swann, W.F.G.: Journal of the Franklin Instutite: Beauty, the Ideal of the Arts, and the Sciences, 1954 June	box 58	folder 501	
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Tukey, John W.: Journal of American Statistical Association: Unsolved Problems of Experimental Statistics, 1954	box 58	folder 501	
Muller, H.J.: Science: Genetics Damage Produced by Radiation, 1955 January 17	box 58	folder 501	
Grant, John B.: Journal of Medical Education: Medical Regionalization and Education, 1955 February	box 58	folder 501	
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Tukey, John W.: The American Mathematical Monthly: Mathematical Consultants Computational Mathematics and Mathematical Engineering, 1955 October	box 58	folder 501	

Whyte, L.L.: The British Journal for the Philosophy of Science: One-Way Processes in Physics and Biophysics, 1955 November	box 58	folder 501	
Tukey, John W.: Biometrica: Interpolations and Approximations Related to the Normal Range, 1955 December	box 58	folder 501	
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David, Herbert T.: The Annals of Mathmatical Statistics: The Wager Sequential t-Test Reaches A Decision with Probability One, 1956 September	box 59	folder 502	
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Wheeler, John A.: American Scientist: A Septet of Sibyls: Aids in the Search for Truth, 1956 October	box 59	folder 502	
Brown, Arthur Judson: The Church Peace Union: Address (at the honor of his 100th birthday), 1956 December 3	box 59	folder 502	
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# Photographs and Special Formats, 1926-1970s

<u>Physical Description</u>: 10253 item(s) 35mm kodachrome slides, silver gelatin prints, color prints, nitrate sheet film negatives, 35mm nitrate and acetate roll film negatives, and 35mm color negatives. The total number of items in all formats for this collection is 10,253.

#### **Scope and Contents**

Family photographs, Photographs taken during numerous trips to foreign countries, Landscape/Botanical interests, Group and individual portraits of the American Association of Mathematicians, dating from 1926 to the mid 1930's, and Publicity photographs of Warren Weaver.

The family photographs date predominantly from the early 1920's through the 1950's, and are mostly of the Weaver children at various ages, family groups, holidays, graduations, weddings, vacations, and the construction of their house at Second Hill in the 1950's. WW seems to have had a particular interest in landscapes, and flower gardens.

A large amount of the images dating from the mid 1960's to the late 1970's focus on nature scenes, gardens, and roses in particular. There is a vast amount of material taken during trips to Europe, Mexico, and Asia, dating from the late 1930's through 1968.

Subjects of these images include architecture, historic landmarks, landscapes, cityscapes, and genre scenes.

#### **Immediate Source of Acquisition:**

# **Immediate Source of Acquisition**

RAC Accession 2001:015.

#### **Processing Information:**

# **Processing Information**

The inventory presented for Series 13 lists by format, and then by box, all photographic materials received in this accession. Labels from packaging or notations that can serve as identifiers have been used whenever possible. The number of items in an envelope, and the total for each format is listed with the entry. Spelling errors have been retained.

#### **Related Materials:**

### **Related Materials**

Rockefeller Foundation photographs, Series 100 Portraits.

#### **Conditions Governing Access:**

# **Conditions Governing Access**

Photographic negatives cannot be handled or viewed by researchers due to the fragile nature of the format. To request duplication of an image(s), please contact an Archivist.

# **Other Finding Aids**

A container list for this series is available as a PDF.

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