

Rabinowitch, Eugene I.; Papers

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M.E. Grenander Department of Special Collections & Archives

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Summary Information

Repository:	M.E. Grenander Department of Special Collections & Archives
Title:	Eugene I. Rabinowitch Papers
ID:	ger075
Date [inclusive]:	1923-1973
Physical Description:	14 cubic ft.
Physical Location:	The materials are located onsite in the department.
Language of the Material:	German , English .
Abstract:	Russian-born chemist and SUNY Albany professor who worked on the Manhattan Project, was an early leader of the Concerned Scientists Movement, and helped organize the Pugwash Conferences on Science and World Affairs. The Rabinowitch Papers document various aspects of his life and career and contain his writings, his involvement with the Pugwash Conferences and the <i>Bulletin of the Atomic Scientists</i> , his research interests in photosynthesis, and his work at the University of Illinois and the State University of New York at Albany.

Preferred Citation

Preferred citation for this material is as follows:

Identification of specific item, series, box, folder, Eugene I. Rabinowitch Papers, 1923-1973. M.E. Grenander Department of Special Collections and Archives, University Libraries, University at Albany, State University of New York (hereafter referred to as the Rabinowitch Papers).

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Biographical Sketch

Eugene I. Rabinowitch was born on April 27, 1901 at St. Petersburg, Russia, the son of Isaac and Zinaida (Weinlud) Rabinowitch. In 1921 Isaac Rabinowitch, a lawyer, moved his family to Berlin to escape the Russian persecution of Jews. Eugene Rabinowitch attended the University of Berlin, earning there his doctorate in chemistry in 1926. After serving as an assistant in physical chemistry at the Kaiser Wilhelm Institute, Rabinowitch went to the University of Göttingen where he was a research associate in physics from 1929 to 1933. With the rise of the Nazi Party in the early 1930s, Jews, such as Rabinowitch, were expelled from their university posts. With the loss of his fellowship Rabinowitch was forced to leave Germany.

Rabinowitch with his wife, Anya Mejerson, whom he married on March 12, 1932, went first to Copenhagen to work with Neils Bohr at the Institute of Theoretical Physics. From here Rabinowitch moved to London to work with F. G. Donnan at University College. Rabinowitch remained in London from 1934 to 1938. It was here that his twin sons, Alexander and Victor, were born on August 30, 1934.

In 1938 Rabinowitch was invited to the United States to lecture. This resulted in the offer of a position with the Cabot Solar Energy Research Project at the Massachusetts Institute of Technology. Rabinowitch was at MIT from 1939 to 1944, when James Franck, a former colleague from Göttingen, invited him to come to Chicago. In Chicago Rabinowitch joined Franck and several other distinguished scientists at what was being called the Metallurgical Laboratory. This was in reality one of the principal research centers of the Manhattan Project. Rabinowitch worked with the Project from 1944 until its completion in 1946, serving as senior chemist and section chief of the Metallurgical Laboratory's Information Division.

In June 1945 Rabinowitch and physicist Leo Szilard authored a memorandum, which became known as the Franck Report. The memorandum, which argued against the military use of the atomic bomb, was signed by seven Metallurgical Laboratory scientists led by Franck and was personally carried by Franck to the government in Washington, D. C. Although it did not persuade the United States government to refrain from use of the atomic bomb without prior demonstration of its capabilities, the Franck Report is one of the earliest statements of the Concerned Scientists Movement of the 1940s and 1950s. This Movement, which marshalled the talent and dedication of several of the scientists who had worked on the atomic bomb, was born out of the scientists' conviction that the scientific community had a right, if not a duty, to speak out on the new and complicated policy issues of the nuclear age. Joined by many colleagues who had not worked on the atomic bomb but who shared their concern, these scientists worked to educate the American public and government about the significance of atomic power. Rabinowitch was an early leader in both the Movement and the educational effort, co-founding with Hyman Goldsmith the *Bulletin of the Atomic Scientists*. As the editor-in-chief for more than twenty years Rabinowitch maintained the Bulletin's quality and independence as a forum for discussion of scientific issues with social and political implications. As such it reflected Rabinowitch's belief in the importance of keeping the

scientific community informed about the impact on society of the twentieth century scientific and technological revolution in which it played a significant part.

In addition to his work on the *Bulletin* and his participation in organizations of the Scientist's Movement, Rabinowitch continued to teach, to write, and to pursue his research interests in the field of photosynthesis. His seminal scientific work, *Photosynthesis and Related Processes*, was published in three parts between 1945 and 1956 and was supplemented by numerous articles on the topic. In 1947 Rabinowitch joined the faculty of the University of Illinois at Urbana as a research professor of botany. Helping to organize the University's Photosynthesis Research Laboratory, he then served as its director. From 1966 to 1968 he was also a member of the University's Center for Advanced Studies.

Rabinowitch's interest in public policy and political affairs was demonstrated in 1955, when he helped to organize the international forum, which became known as the Pugwash Conferences on Science and World Affairs. Initiated in response to increasing world tension, the Pugwash Conferences grew out of the hopes of many distinguished scientists that war could be eliminated as an instrument of foreign policy. The Russell-Einstein Manifesto, calling for the peaceful discussion of scientific issues in an apolitical arena, sparked the convening of the first Pugwash meeting in 1957. Named for the site of the first conference, Pugwash, Nova Scotia, the international meetings provide natural and social scientists with the opportunity to discuss policy issues with their colleagues from around the world. Rabinowitch, a founder of the organization, served as a member of the International Continuing Committee of Pugwash from 1957 to 1973 and was president of the movement from 1969 to 1970.

In 1968 Rabinowitch retired from the University of Illinois and took a position with the State University of New York at Albany as professor of biology and chemistry and as senior advisor to the newly-established Center for Science and the Future of Human Affairs (later called the Center for the Study of Science and Society). Rabinowitch was the guiding force behind the new Center working to obtain funds for it and establishing goals and objectives for it. The Center was to reflect Rabinowitch's own concerns with the way in which science and technology impacted on society. Rabinowitch's son, Victor, was director of the Center from 1968 to 1970. Following Victor's resignation, Eugene Rabinowitch served as acting director from March to September 1970. Rabinowitch retired from SUNY at Albany on August 31, 1972 and was immediately reappointed as a visiting professor for the 1972/1973 school year. At this time Rabinowitch was given a leave of absence from the University in order to accept a fellowship with the Woodrow Wilson International Center for Scholars of the Smithsonian Institute. While in Washington, he continued to write, edit the *Bulletin*, and participate in Pugwash. Eugen I. Rabinowitch died on May 15, 1973 at Washington, D. C., at the age of seventy-two.

Books by Rabinowitch:

1928 *Rare Gases*

1930 *Periodic System*

1945 *Photosynthesis and Related Processes*, Volume I

1950 *Minutes to Midnight*, editor

1950 *Photosynthesis and Related Processes*, Volume II, Part I

1951 *The Chemistry of Uranium*, with J. J. Katz

1956 *Photosynthesis and Related Processes*, Volume II, Part II

1963 *The Atomic Age*, edited with Morton Grodzins

1964 *The Dawn of a New Age*

1964 *Spectroscopy and Photochemistry of Uranyl Compounds*, with R. Linn Belford

1969 *Mau on the Moon*, edited with Richard Lewis

1969 *Photosynthesis*, with Govindjee

1975 *Views of Science, Technology and Development*, edited with Victor Rabinowitch

Awards Received by Rabinowitch:

1955 Guggenheim Fellowship

1960 D.H. L., Brandeis University (honorary)

1964 Dr. Sci., Dartmouth College (honorary)

1966 Kalinga Prize, United Nations Educational, Scientific and Cultural Organization (for popularization of science)

1967 Columbia College, Chicago

1970 Dr. Sci., Alma College, Michigan

1972 American Academy of Arts and Sciences (award for promotion of international cooperation among scientists)

1972 Woodrow Wilson International Center for Scholars Fellowship

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Scope and Contents

The Eugene I. Rabinowitch Papers, 1923-1973, document various aspects of the life and career of Rabinowitch. The papers concern his writings, his involvement with the Pugwash

Conferences and the *Bulletin of the Atomic Scientists*, his research interests in photosynthesis, and his work at the University of Illinois and the State University of New York at Albany.

The papers date primarily from 1968 to 1972 when Rabinowitch was a member of the faculty at the State University of New York at Albany. A small amount of earlier material concerns Rabinowitch's writings and his editorship of the *Bulletin of the Atomic Scientists*. The researcher is also referred to collections of Rabinowitch papers held by the University of Illinois Archives and the University of Chicago Library. In addition, please see the papers of the Center for the Study of Science and Society, also held by the SUNYA University Archives.

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Arrangement of the Collection

The collection is organized into seven series.

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Administrative Information

Publication Statement

M.E. Grenander Department of Special Collections & Archives

Revision Description

EAD file created Encoded in EAD by Conversion and encoding by ArchProteus 2014 2015

Processing Information

Processed in 1984 by Alice K. Titus.

Acquisition Information

All items in this manuscript group were donated to the University Libraries, M.E. Grenander Department of Special Collections and Archives, in 1981 by Dr. Victor Rabinowitch, son of Dr. Eugene Rabinowitch.

Access

Access to this record group is unrestricted.

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Controlled Access Headings

- Bulletin of the Atomic Scientist.
- Rabinowitch, Eugene, 1901-1973.
- American Academy of Arts and Sciences.

Collection Inventory

Correspondence, 1945-1973

Scope and Contents

Consists of general correspondence and subject files dating primarily from 1968 to 1972. The incoming and outgoing correspondence is arranged alphabetically by name of individual, name of organization, or subject. A general file for each letter of the alphabet precedes other files for the same letter of the alphabet (ie.: "A" precedes "American Institute of Chemists"). Items within the files are arranged chronologically by year, month, and day. Partially dated items are placed at the end of the month or year; undated items are placed after dated material. Enclosures are placed after their letter of transmittal. The correspondence concerns a wide range of Rabinowitch's interests including his publications, his lectures, and his work as a teacher and researcher. Files relating to the Atomic Energy Commission, the National Science Foundation, and the Research Foundation of the State University of New York document Rabinowitch's research in the field of photosynthesis and the grants, which supported this research. Rabinowitch's interest in the relation of science and technology to public policy and international affairs is detailed in his correspondence files with men such as Hubert H. Humphrey and Frank Church as well as files such as those concerning the Sakharov Memorandum or the Emergency Committee of Atomic Scientists.

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Bulletin of the Atomic Scientists, 1945-1973

Scope and Contents

The *Bulletin of the Atomic Scientists (BAS)* was begun in December 1945 by Eugene Rabinowitch and Hyman H. Goldsmith. Originally called the *Bulletin of the Atomic Scientists of Chicago*, it served as a newsletter for the Atomic Scientists of Chicago. In 1946 the name was changed to its present form. *The Bulletin* started "as a means of calling public attention to the perils of atomic energy and the urgent need for its control by a civilian agency". The *BAS* evolved into a forum for scientists concerned about science policy and the relationship of science to national and international affairs. It covers topics ranging from genetics to pollution to space exploration. Rabinowitch and Goldsmith co-edited the journal until the latter's death in August 1949. From 1949 until his own death in 1973, Rabinowitch was editor-in-chief of the *Bulletin*. *BAS* continues to be published ten times a year under the auspices of the Educational Foundation of Nuclear Science, Inc. *The Bulletin of the Atomic Scientists, 1945-1972*, files are organized into three sections as listed and described below. Material within the sections is arranged chronologically by year, month, and day. Partially dated material is placed at the end of the month or year; undated items are placed after dated material.

Correspondence, 1945-1972

Scope and Contents

The Correspondence dates primarily from 1964 to 1972. The correspondence with staff and board members details the activities and organization of the BAS. There are also letters from individuals who wished to contribute articles to the journal. Correspondence may also be found from readers commenting on articles in the *Bulletin*, such as one from Bertrand Russell discussing an editorial on Vietnam by Rabinowitch. Individuals figuring prominently in the activities of the BAS and in the correspondence include:

Adams, Ruth Managing Editor.

Betbe, Hans Board of Sponsors.

Blum, Walter J. Legal Counsel.

Feld, Bernard T. Board of Directors.

Goldsmith, Hyman H. Co-founder and Co-editor, 1945-1949.

Gomer, Robert Editorial Board.

Grodzins, Ruth Editorial Staff.

Kalven, Harry, Jr. Board of Directors.

Lewis, Richard Managing Editor.

Penn, Virginia Editorial Staff.

Rabinowitch, Victor Board of Directors.

Rosen, Eunice Editorial Staff.

Shils, Edward Editorial Board and Board of Directors.

Shils, Ruth Editorial Staff.

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The Administration files are arranged alphabetically by subject. They contain minutes, agenda, annual reports, bylaws, financial statements, grant applications, subscription lists, circulation reports, and promotional materials. The files document the day-to-day activities of the *BAS* and detail the organizational structure which supported the journal. Included in these files are minutes and papers dating from 1945 to 1949 of the Atomic Scientists of Chicago. This was the organization which initially sponsored publication of the Bulletin.

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Articles, 1947-1971

Scope and Contents

The Articles are arranged alphabetically by author's name. The files contain correspondence, memoranda, drafts of articles, galley proofs, reprints, resource material for articles, and clippings. The articles were submitted to Rabinowitch for publication in the BAS and may or may not have actually been printed. Articles which Rabinowitch himself may have written for the Bulletin are not included here but have been placed in Series 5 with his other writings.

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Teller, Edward, "Comments on the 'Draft of a World Constitution", 1948 April	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 40
Varsavsky, Carlos M., "Development, Underdevelopment and Misedevelopment", Undated	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 41
Warshauer, Albert D., "Key Information in the Medical and Social Sciences", 1970 August	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 42
White, Gilbert F., "Vietnam: The Fourth Course", 1964 December	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 43
Wilson, Jane, The Double Helix, book review, 1968 May	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 44
Wood, Frederick B., "The Social Responsibility of Engineers and Scientists", 1959 March-1959 April	Box 3 (2-Bulletin of the Atomic Scientists)	Folder 45

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Pugwash Conferences on Science and World Affairs, 1957-1972

Scope and Contents

The Conferences on Science and World Affairs, otherwise known as Pugwash, "is a union of scientists who are concerned about the relations between science and society". Stated simply by Joseph Rotblat, secretary general of the movement, the aim of Pugwash is "to ensure that mankind will not destroy itself. Rabinowitch had an early influence in establishing the Pugwash Movement. In 1954 he opened discussions with Joseph Rotblat of Great Britain's Atomic Scientists' Association, which led to the 1955 International Conference on Science and Society. This conference endorsed the Russell-Einstein Manifesto which had been published shortly before. The Manifesto called for a conference of scientists to review the dangers of nuclear war and discuss means of achieving international understanding. This was fulfilled in the meeting of scientists in July 1957 at Pugwash, Nova Scotia. The name of the site became the name of the movement - Pugwash. The Pugwash Conferences on Science and World Affairs, 1957-1972, consist of a small, fragmentary amount of material dating primarily from the 1960s. The files are arranged in four categories-correspondence, conferences, symposia, and clippings. The conferences are arranged by date of meeting; the symposia are arranged alphabetically by title of meeting. Material within the files is arranged chronologically by year, month, and day. Partially dated items are placed at the end of the month or year; undated items are placed after dated material. Enclosures are placed after their letter of transmittal.

Rabinowitch attended this first conference and was selected to serve on the Continuing Committee whose purpose was to organize future meetings. Rabinowitch remained a member of the Committee until just prior to his death in 1973. Throughout his life Rabinowitch was active in the Pugwash Movement, attending every conference and serving as president of the 1970 conference held at Fontana, Wisconsin. The files consist of incoming and outgoing correspondence, minutes, agenda, reports, financial statements, conference papers, participant lists, and clippings. The correspondence chiefly concerns planning for the various Pugwash conferences. Among the correspondents are Cyrus S. Eaton, who provided the financial backing of the early conferences; Joseph Rotblat, the first secretary general of Pugwash; and Bertrand Russell, who was one of the initiators of the Pugwash Movement. There are small amounts of material concerning eight of the international Pugwash conferences. Of interest among this material is a statement drafted by Rabinowitch for the 1962 conference in London.

During Rabinowitch's lifetime the following conferences were held:

First Conference: Pugwash, Nova Scotia, July 7-10, 1957.

Second Conference: Lac Beauport, France, March 31 - April 11, 1958, "The Dangers of the Present Situation, and Ways and Means of Diminishing Them".

Third Conference: Kitzbubel and Vienna, Austria, September 14-20, 1958, "Dangers of the Atomic Age and What Scientists Can Do About Them".

Fourth Conference: Baden, Austria, June 25 - July 4, 1959, "Arms Control and World Security".

Fifth Conference: Pugwash, Nova Scotia, August 24-29, 1959, "Biological and Chemical Warfare".

Sixth Conference: Moscow, USSR, November 27 - December 5, 1960, "Disarmament and World Security".

Seventh Conference: Stowe, Vermont, September 5-9, 1961, "International Cooperation in Pure and Applied Science".

Eighth Conference: Stowe, Vermont, September 11-16, 1961, "Disarmament and World Security".

Ninth Conference: Cambridge, England, August 25-30, 1962, "Problems of Disarmament and World Security".

Tenth Conference: London, England, September 3-7, 1962, "Scientists and World Affairs".

Eleventh Conference: Dubrovnik, Yugoslavia, September 20-25, 1963, "Current Problems of Disarmament and World Security".

Twelfth Conference: Udaipur, India, January 27 - February 1, 1964, "Current Problems of Disarmament and World Security".

Thirteenth Conference: Karlovy Vary, Czechoslovakia, September 13-19, 1964, "Disarmament and Peaceful Collaboration Among Nations".

Fourteenth Conference: Venice, Italy, April 11-16, 1965, "International Cooperation for Science and Disarmament".

Fifteenth Conference: Addis Ababa, Ethiopia, December 29, 1965 - January 3, 1966, "Science in Aid of Developing Countries".

Sixteenth Conference: Sopot, Poland, September 11-16, 1966, "Disarmament and World Security, Especially in Europe".

Seventeenth Conference: Ronneby, Sweden, September 3-198, 1967, "Scientists and World Affairs".

Eighteenth Conference: Nice, France, September 11-16, 1968, "Current Problems of Peace, Security and Development".

Nineteenth Conference: Sochi, USSR, October 22-27, 1969, "World Security, Disarmament and Development".

Twentieth Conference: Fontana, Wisconsin, September 9-15, 1970, "Peace and International Cooperation: A Programme for the Seventies".

Twenty-first Conference: Sinaia, Romania, August 26-31, 1971, "Problems of World Security, Environment and Development".

Title/Description	Instances	
Correspondence, 1960 May-1972 June, Undated	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 46
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Tenth Conference, London, 1962 January-1962 May	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 48
Thirteenth Conference, Karlovy Vary, Czechoslovakia, 1964 September	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 49
Fifteenth Conference, Addis Ababa, Ethiopia, 1965 December-1966 January, Undated	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 50
Sixteenth Conference, Sopot, Poland, 1966 April-1966 September, Undated	Box 3 (3-Pugwash Conferences on Science	Folder 51

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	and World Affairs)	
Nineteenth Conference, Sochi, USSR, 1969 February-1971 January <u>Digital Object: Online Object Uploaded through Hyrax UI</u>	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 52
Twentieth Conference, Lake Geneva (Fontana), Wisconsin, 1968 October-1970 October	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 53
Twenty-first Conference, Sinaia, Romania, 1971 August-1971 October	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 54
Symposia - Evolution of Science and Technology in the Light of Basic World Problems, 1969 February-1969 March	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 55
Symposia - International Summer School on Disarmament and Arms Control, 1966 June-1969 May	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 56
Symposia - Science and Development Symposia, Stanford University, 1970 January-1972 June	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 57
Symposia - Social Aspects of Technological Change, 1970 October-1971 June	Box 3 (3-Pugwash Conferences on Science and World Affairs)	Folder 58
Symposia - Clippings, 1957 July-1969 October	Box 3 (3-Pugwash Conferences on Science	Folder 59

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Conferences, 1959-1972

Scope and Contents

The Conferences, 1959-1972, files date primarily from 1966 to 1971. The files are arranged alphabetically by title of the conference. Items within the files are arranged chronologically by year, month, and day. Partially dated items are placed at the end of the month or year; undated items are placed after dated material. The files contain correspondence, reports, conference papers, programs, agenda, lecture notes, participant lists, receipts, vouchers, pamphlets, and leaflets. The files represent conferences, which Rabinowitch attended or presented a paper. There are also files concerning conferences to which Rabinowitch was invited but was unable to attend. A number of the conferences reflect Rabinowitch's interests in photosynthesis and photochemistry. Other conferences concern his work in international affairs, such as the Hiroshima Conference.

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Bioastronautics and the Exploration of Space, Fourth International Symposium, 1968 June	Box 3 (4-Conferences)	Folder 60
Brown University Engineering Colloquia, 1967 January-1967 May	Box 3 (4-Conferences)	Folder 61
Center for the Study of Democratic Institutions, Planning Conference, 1966 May-1966 June	Box 3 (4-Conferences)	Folder 62
The Challenge of Building Peace, National Convocation, 1968 December-1971 October	Box 3 (4-Conferences)	Folder 63
Changing Human Relations, 1968 July	Box 3 (4-Conferences)	Folder 64
Colloque Photosynthèse, Undated	Box 3 (4-Conferences)	Folder 65
Colloquium on Science and Public Affairs, 1963 October-1963 December	Box 3 (4-Conferences)	Folder 66
Conference on World Tensions, Undated	Box 3 (4-Conferences)	Folder 67
European Biophysics Conference, 1970 September-1971 September	Box 3 (4-Conferences)	Folder 68
Evolution Conferences, 1960 May-1960 December	Box 3 (4-Conferences)	Folder 69
Evolution Conferences, 1960 December	Box 3 (4-Conferences)	Folder 70
The Future of American Society-Work and Leisure, SUNYA Academic Affairs Colloquium, 1967 April-1967 May	Box 4 (4-Conferences)	Folder 1

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Future of Mankind and the Role of Christian Churches in a World of Science-Based Technology, 1972 January-1972 April	Box 4 (4-Conferences)	Folder 2
Galaxy Conference on Adult Education, 1969 March-1970 January	Box 4 (4-Conferences)	Folder 3
Gordon Research Conferences, 1962 May-1969 June	Box 4 (4-Conferences)	Folder 4
Hiroshima Conference, 1969-November 1970	Box 4 (4-Conferences)	Folder 5
Hiroshima Conference, 1970 December-1971 March, Undated	Box 4 (4-Conferences)	Folder 6
Hiroshima 25 Years Later, American Association for the Advancement of Science, 1970 July-1971 February, Undated	Box 4 (4-Conferences)	Folder 7
Impact of Aerospace Science and Technology on Law and Government, 1968 July	Box 4 (4-Conferences)	Folder 8
International Congress of Photosynthesis Research, 1971 January-1971 June	Box 4 (4-Conferences)	Folder 9
International Future Research Conference, Kyoto, Japan, 1969 July-1969 November	Box 4 (4-Conferences)	Folder 10
Interreligious Understanding, Conference on, 1967 December-1968 January	Box 4 (4-Conferences)	Folder 11
Logic - Physical Reality History International Colloquium, 1966 May	Box 4 (4-Conferences)	Folder 12
Massachusetts Institute of Technology Centennial Conference on Science and Engineering, 1968 April	Box 4 (4-Conferences)	Folder 13
Massachusetts Institute of Technology March Fourth Work Stoppage, 1969 January-1969 October	Box 4 (4-Conferences)	Folder 14
Midwest Conference on Contemporary Soviet Problems, Northwestern University, 1960 January-1960 March, Undated	Box 4 (4-Conferences)	Folder 15
Miscellaneous, 1959 November-1972 May, Undated	Box 4 (4-Conferences)	Folder 16
Nuclear Science Symposium, IEEE, 1971 January	Box 4 (4-Conferences)	Folder 17
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Photochemistry in the Liquid and Solid States Symposium, 1959 March	Box 4 (4-Conferences)	Folder 19
Photosynthesis Bicentennial Symposium, National Academy of Sciences, 1970 August-1972 January	Box 4 (4-Conferences)	Folder 20
The Photosynthetic Unit, 1969 June-1970 October		

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Physique Theorique et Biologie, Conference Internationale, Versailles, 1966 December-1967 June	Box 4 (4-Conferences)	Folder 22
The Political Attitudes of Scientists, American Association for the Advancement of Science, 1969 April-1970 January	Box 4 (4-Conferences)	Folder 23
Primary Photochemistry of Photosynthesis, 1971 May-1971 November, Undated	Box 4 (4-Conferences)	Folder 24
Science and Technology in the Developing Countries Seminar, 1968 February-1968 May	Box 4 (4-Conferences)	Folder 25
Science and the Human Condition, University of Illinois, 1967 November-1967 December	Box 4 (4-Conferences)	Folder 26
Science and the Human Condition, 1968 January-1968 April, Undated	Box 4 (4-Conferences)	Folder 27
Science in Education and Public Life Symposium, 1966 November-1966 December	Box 4 (4-Conferences)	Folder 28
Science, Technology and Foreign Affairs Seminar, Foreign Service Institute, 1965 January-1965 February, Undated	Box 4 (4-Conferences)	Folder 29
Seminar with North American Scientists on Links with I Developing Countries, 1968 May	Box 4 (4-Conferences)	Folder 30
University of Edinburgh, Science Studies Unit Inaugural Seminar, 1966 November	Box 4 (4-Conferences)	Folder 31
Venezuelan Association for the Advancement of Science, Annual Conventions, 1967-March 1968	Box 4 (4-Conferences)	Folder 32
World Assembly for Peace, Berlin, 1968 June	Box 4 (4-Conferences)	Folder 33

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Writings, 1923-1972

Scope and Contents

The Writings, 1923-1972, are organized in two parts Subseries A: Writings by Rabinowitch and Subseries B: Writings by Others. Material within the files is arranged chronologically by year, month, and day. Partially dated material is placed at the end of the month or year; undated items are placed after dated material.

Writings by Rabinowitch, 1923-1972

Scope and Contents

The Writings by Rabinowitch files date primarily from the 1960s. The files are arranged alphabetically by title or subject and contain correspondence, editorial letters, lecture notes, speeches, book reviews, royalty statements, typescript drafts, biographies, reprints, galley proofs, radio broadcast script,

journals, and clippings. The files relate to Rabinowitch's books such as *The Atomic Age*, *The Dawn of a New Age*, *Minutes to Midnight*, and *Photosynthesis*. There are also files concerning Rabinowitch's numerous articles in scientific journals on the subject of photosynthesis. There are notes for and copies of speeches delivered by Rabinowitch. There are also files concerning articles and editorials which Rabinowitch prepared for publication in the *Bulletin of the Atomic Scientists*. In addition there are files relating to works translated by Rabinowitch from English to German or from German to Russian.

Title/Description	Instances	
"Absorption Spectra of Uranyl Compounds in Solution", Argonne National Laboratory, 1953 December	Box 4 (5-Writings)	Folder 34
"Action Spectra of Fluorescence of Spinach Chloroplast Fractions Obtained by Solvent Extraction", 1968 August-1969 December	Box 4 (5-Writings)	Folder 35
"Albert Einstein", Undated <u>Digital Object: Online Object Uploaded through Hyrax UI</u>	Box 4 (5-Writings)	Folder 36
Allison, Samuel King, ObituaryBAS, 1965 September 10, Undated	Box 4 (5-Writings)	Folder 37
<i>American Political Science Review</i> , Book Reviews, 1969 October-1972 April	Box 4 (5-Writings)	Folder 38
<i>American Scientists and Nuclear Weapons Policy</i> , book review, 1962 May	Box 4 (5-Writings)	Folder 39
"Anti Hook", Undated <u>Digital Object: Online Object Uploaded through Hyrax UI</u>	Box 4 (5-Writings)	Folder 40
"The Atom: Its Hazards and Benefits", Town Meeting, 1955 August	Box 4 (5-Writings)	Folder 41
<i>The Atomic Age</i> , Correspondence, 1962 April-1968 January, Undated	Box 4 (5-Writings)	Folder 42
<i>The Atomic Age</i> , Reviews, 1963 August-1965 January, Undated	Box 4 (5-Writings)	Folder 43
"The Atomic Age Doctrine: Common Efforts for Common Aims"BAS, 1960 September	Box 4 (5-Writings)	Folder 44
Atomic Bomb Public Opinion Poll, 1945	Box 4 (5-Writings)	Folder 45
"The Atomic Pool", Undated	Box 4 (5-Writings)	Folder 46
"The Atomic Scientists Speak Up", Life, 1945 October, Undated	Box 4 (5-Writings)	Folder 47
"Atomic Spy Trials: Heretical Afterthoughts", Undated	Box 4 (5-Writings)	Folder 48
<i>Atomnoia teoriia teoriia kvant: I. Atoundia teoriia</i> by P. Kirchberger. Translated by Eugene Rabinowitch, 1923	Box 4 (5-Writings)	Folder 49
"Before Hiroshima", 1946 May		

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<i>Biology Today</i> , Undated	Box 4 (5-Writings)	Folder 52
Biophysics Lecture Notes, 1948-1949, Undated	Box 4 (5-Writings)	Folder 53
Bio Science Editorial, 1971 November	Box 4 (5-Writings)	Folder 54
<i>Brighter Than a Thousand Suns</i> , book review, Undated	Box 4 (5-Writings)	Folder 55
<i>Chemistry of Uranium</i> , 1944 September-1962 July	Box 4 (5-Writings)	Folder 56
"Chlorophyll, a in Anhydrous Ether in Various Drying Agents", 1965 May-1965 June, Undated	Box 4 (5-Writings)	Folder 57
"Compulsory Social Spending Instead of Taxation", 1971 May, Undated	Box 4 (5-Writings)	Folder 58
"Copping Out" <i>Encounter</i> , 1971 September	Box 4 (5-Writings)	Folder 59
"A Dangerous Lull", Undated	Box 4 (5-Writings)	Folder 60
<i>The Dawn of a New Age</i> , Correspondence, 1962 February-1969 May, Undated	Box 5 (5-Writings)	Folder 1
<i>The Dawn of New Age</i> , Reviews, 1963 September-1965, Undated	Box 5 (5-Writings)	Folder 2
"Dogmatismus, Rationalitat und die Demokratie", 1964 December Digital Object: Online Object Uploaded through Hyrax UI	Box 5 (5-Writings)	Folder 3
"East West Cooperation in Technical and Scientific Aid to Developing-Nations", Undated	Box 5 (5-Writings)	Folder 4
<i>Elementare Einführung in die physikalische Statistik</i> , translation by Eugene Rabinowitch, Book Reviews, 1931-1932	Box 5 (5-Writings)	Folder 5
<i>Elementare Einfuhrutg in die Quantenmechanik</i> , translation by Eugene Rabinowitch, Book Reviews, 1933 November-1935, Undated	Box 5 (5-Writings)	Folder 6
<i>Elementare Einführung in die Wellenmechanik</i> , translation by Eugene Rabinowitch, Book Reviews, 1929 July-1934	Box 5 (5-Writings)	Folder 7
Emerson, Robert, Biography, 1969 March-1970 December, Undated	Box 5 (5-Writings)	Folder 8

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<i>Enciclopedia Della Scienza e Della Tecnica</i> , 1964 June-1964 September	Box 5 (5-Writings)	Folder 9
<i>Encyclopedia Britannica</i> , 1947 April-1949 January	Box 5 (5-Writings)	Folder 10
<i>Encyclopedia of Science and Technology</i> , 1957 November-1968 February	Box 5 (5-Writings)	Folder 11
"Eppur si muove" <i>BAS</i> , 1961 January	Box 5 (5-Writings)	Folder 12
"Exit SST", Undated <u>Digital Object: Online Object Uploaded through Hyrax UI</u>	Box 5 (5-Writings)	Folder 13
<i>An Experience in Listening to the Dead: The Perils of Nationalism</i> , Foreword by Eugene Rabinowitch, 1969 January-1969 August, Undated	Box 5 (5-Writings)	Folder 14
<i>Explaining the Atom</i> , 1953 January-1969 April	Box 5 (5-Writings)	Folder 15
"The Failure of the UNAEC", 1948 October	Box 5 (5-Writings)	Folder 16
"Fateful Decision", Undated	Box 5 (5-Writings)	Folder 17
"Five Years After", editorial <i>BAS</i> , 1951 January	Box 5 (5-Writings)	Folder 18
"Fluorescence of Carotenids", 1969 January-1970 April, Undated	Box 5 (5-Writings)	Folder 19
"The Future of COSWA", 1962 December <u>Digital Object: Online Object Uploaded through Hyrax UI</u>	Box 5 (5-Writings)	Folder 20
"General Groves Before the McMahon Committee", Undated	Box 5 (5-Writings)	Folder 21
"Genetic Engineering", <i>BAS</i> , 1971	Box 5 (5-Writings)	Folder 22
"Harrison Brown: A Changed and Changing World" <i>BAS</i> , 1956 October	Box 5 (5-Writings)	Folder 23
"Heroes of Our Time", <i>BAS</i> , 1962 May	Box 5 (5-Writings)	Folder 24
<i>Ice and Fire</i> , Undated	Box 5 (5-Writings)	Folder 25
<i>Ionnaia teorriia</i> by P. Breier. Translated by Eugene Rabinowitch, 1924	Box 5 (5-Writings)	Folder 26
"The Lessons of a Fateful Month", editorial, <i>BAS</i> , 1967 December	Box 5 (5-Writings)	Folder 27
"The Listener" Rejoinder, 1971 April		

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"Measurement of the Fluorescence Life Time of Chlorophyll a in Vivo", 1969 February-1969 May	Box 5 (5-Writings)	Folder 29
"Mechanisms of Excitation Energy Migration Between Pigment Molecules in Biological Systems", Undated	Box 5 (5-Writings)	Folder 30
"Migration of Electronic Energy from Chlorophyll a to Chlorophyll b in Solutions", 1970	Box 5 (5-Writings)	Folder 31
"Migration of Electronic Energy from Chlorophyll a to Chlorophyll b in Solutions", 1971	Box 5 (5-Writings)	Folder 32
"Migration of Excitation Energy from Thionine to Methylene Blue in Micelles", 1969 June-1970 February, Undated	Box 5 (5-Writings)	Folder 33
"Military or Civilian Control", Undated	Box 5 (5-Writings)	Folder 34
"Military Security in the Atomic Age", 1946 April	Box 5 (5-Writings)	Folder 35
<i>Minutes to Midnight</i> , 1950	Box 5 (5-Writings)	Folder 36
Miscellaneous, 1945 September-1972 June, Undated	Box 5 (5-Writings)	Folder 37
"The Mounting Tide of Unreason", BAS, 1971 May	Box 5 (5-Writings)	Folder 38
Nation Article (untitled galley), Undated	Box 5 (5-Writings)	Folder 39
"Eine Neujahrsansprache", translation by Eugene Rabinowitch, 1967 June-1967 August	Box 5 (5-Writings)	Folder 40
<i>New York Times</i> Editorials, 1968 September-1972 January, Undated	Box 5 (5-Writings)	Folder 41
<i>Now It Can Be Told</i> , book review notes, Undated	Box 5 (5-Writings)	Folder 42
<i>One World or None</i> , book review, Undated	Box 5 (5-Writings)	Folder 43
"Photochemical Reduction of Thionine and Other Thiazine Dyes by CO (II) EDTA Complex in a Heterogeneous System", 1970 March-1971 May	Box 5 (5-Writings)	Folder 44
"Photochemical Reduction of Thionine by Cobalt (II) EDTA Complex in Water-Ether Emulsion", October 1969 - February 1970, Undated	Box 5 (5-Writings)	Folder 45
"Photochemistry of Uranyl Compounds", Argonne National Laboratory, 1954 January	Box 5 (5-Writings)	Folder 46

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"The Photogalvanic Effect: Chemical Properties of the Thionine - Iron System", 1940 February	Box 5 (5-Writings)	Folder 48
<i>Photosynthesis</i> , Correspondence, 1940 January-1971 June, Undated	Box 5 (5-Writings)	Folder 49
<i>Photosynthesis</i> , Royalty Statements, 1945 July-1964 December	Box 5 (5-Writings)	Folder 50
<i>Photosynthesis and Energy Migration</i> , Russian Contributions, Undated	Box 5 (5-Writings)	Folder 51
"Photosynthesis and World Needs for Food and Energy", 1965 January	Box 5 (5-Writings)	Folder 52
"Plans for International Control Take Shape" <i>BAS</i> , Undated	Box 5 (5-Writings)	Folder 53
"Polymerization of Dyestuffs in Solution. Thionine and Methylene Blue", 1941 January	Box 5 (5-Writings)	Folder 54
Proposal for the Establishment of an United Nations Council on Scientific Cooperation, Undated	Box 5 (5-Writings)	Folder 55
"Red drop of the Quantum Yield of Fluorescence of Sonicated Chlorella, Anacystis and Porphyridium", 1968 July	Box 5 (5-Writings)	Folder 56
"Responsibility of Scientists in Our Age", Undated	Box 5 (5-Writings)	Folder 57
"Role of Intellectuals in Education", Undated	Box 5 (5-Writings)	Folder 58
<i>Russia's First Atomic Bomb</i> , 1966 October-1966 December, Undated	Box 5 (5-Writings)	Folder 59
"Science and Humanities in Education", 1958 April	Box 5 (5-Writings)	Folder 60
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"Science to the Rescue", Undated	Box 5 (5-Writings)	Folder 62
"Scientific Revolution", Undated	Box 5 (5-Writings)	Folder 63
"The Scientist in Politics", Monmouth College Speech, 1967 January-1967 April	Box 5 (5-Writings)	Folder 64
"Scientists as Citizens", Mellon Institute Speech, Undated	Box 5 (5-Writings)	Folder 65
"The Scientists Examine Their Responsibility", 1959 March		

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"Senate Debate on Atomic Energy Commission" <i>BAS</i> , 1947	Box 5 (5-Writings)	Folder 68
"Snow's Fourth Lecture", Undated	Box 5 (5-Writings)	Folder 69
"The Social Responsibilities of Scientists in the Atomic Age", Mellon Institute Speech, Undated	Box 5 (5-Writings)	Folder 70
Space Editorial <i>BAS</i> , Undated	Box 5 (5-Writings)	Folder 71
<i>Spectroscopy and Photochemistry of Uranyl Compounds</i> , 1960 October-1968 January	Box 5 (5-Writings)	Folder 72
"Spectroscopy of Uranyl Salts in the Solid State", Argonne National Laboratory, 1953 November	Box 5 (5-Writings)	Folder 73
"The Superbomb: Is There No Choice?", Undated	Box 5 (5-Writings)	Folder 74
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"Test Ban Now", Undated	Box 5 (5-Writings)	Folder 76
"Thoughts for 1970" <i>BAS</i> , 1970 February	Box 5 (5-Writings)	Folder 77
"A Three Part Memorandum", 1945 August	Box 5 (5-Writings)	Folder 78
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"Two Proposals", Undated	Box 5 (5-Writings)	Folder 80
"UN Atomic Energy Commission", 1947	Box 5 (5-Writings)	Folder 81
"Uranyl Fluorescence Intensity and Decay", Argonne National Laboratory, 1954 July	Box 5 (5-Writings)	Folder 82
"Vietnam: Politics vs. Geography (Some heretical thoughts)", 1971 October	Box 5 (5-Writings)	Folder 83
"Washington", Undated	Box 5 (5-Writings)	Folder 84
"Which Way to Security - Secrecy or International Control of Atomic Weapons", Undated	Box 5 (5-Writings)	Folder 85

Writings By Others, 1946-1971

Scope and Contents

The Writings by Others files date primarily from 1960 to 1971. The files are arranged alphabetically by author's name and then by title. The files contain correspondence, drafts of manuscripts, reprints, pamphlets, and radio broadcasts. An attempt was made to include in this part unpublished manuscripts or material that would not be readily available from other sources. The manuscripts include documents, which Rabinowitch may have collected because of his specific interest in science or international affairs. Or the manuscripts may have been sent to Rabinowitch by the authors for his review and comment. The writings cover a wide range of topics including nuclear energy, disarmament, population control, chemistry, international politics, and scientific education. Of special interest are the scripts of radio broadcasts entitled "The Fifth Horseman". Broadcast in 1946, this Series was designed to educate the American public about the atomic bomb and the results of its use.

Title/Description	Instances	
Alfven et al., M-70 (untitled), Undated	Box 6 (5-Writings)	Folder 1
Artsimovitch, L. A., "Controlled Nuclear Synthesis - The Basis of Energetics of the Distant Future", Undated	Box 6 (5-Writings)	Folder 2
<i>Atomic Scientists News</i> , 1949 July	Box 6 (5-Writings)	Folder 3
Bardeen, John, "Let's Not Overlook Basic Research", 1966 January	Box 6 (5-Writings)	Folder 4
Bardeen, John, "University - Industry Interaction in Solid State Research", 1966 October	Box 6 (5-Writings)	Folder 5
Bondy, Francois, "Europaeische Demokratie und Angewandtes Weltbuergertum", 1960 June	Box 6 (5-Writings)	Folder 6
Braun, Armand et al., "Approach to the Study of the Legal Problems Raised by the Sciences and Advanced Techniques", 1965 December	Box 6 (5-Writings)	Folder 7
Butler, Warren L., "Absorption of Light by Turbid Materials, Undated	Box 6 (5-Writings)	Folder 8
Clemens, Walter C., Jr., "Sakharov: A Man for Our Times", Undated	Box 6 (5-Writings)	Folder 9
Council for the Study of Mankind, 1963 December-1965 September	Box 6 (5-Writings)	Folder 10
Crosson, Frederick J. <i>Science and Contemporary Society</i> , 1967	Box 6 (5-Writings)	Folder 11
<i>Cybernation and Man</i> , 1965 Fall	Box 6 (5-Writings)	Folder 12
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Massey, H. S. W., "The International Control of Atomic Energy", 1948 June	Box 6 (5-Writings)	Folder 32
Melman, Seymour <i>Inspection for Disarmament</i> , 1958 February	Box 6 (5-Writings)	Folder 33
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Staley, Eugene, "Combinations of Factors and Development Theory", 1966	Box 6 (5-Writings)	Folder 51
Stewart, B., "Great Issues", 1966	Box 6 (5-Writings)	Folder 52
Warshauer, Albert D. <i>Key Information in the Medical and Social Sciences</i> , 1970 August	Box 6 (5-Writings)	Folder 53
Wilken, David, "Abstract of Lecture by Mr. Arnold Frutkin...", Undated	Box 6 (5-Writings)	Folder 54

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Photographs, Undated

Scope and Contents

This Series consists of seven photographs, including portraits of Eugene Rabinowitch, Anya Rabinowitch& and Victor Rabinowitch. There is also a photograph of a conference Rabinowitch attended at the Institute on Man and Science. The final photograph is of the 1970 Pugwash Conference held at Fontana, Wisconsin. In addition this Series contains three photographic negatives and 148 slides of graphs depicting photosynthesis processes.

Title/Description	Instances	
Photographs, Undated	Box 6 (6- Photographs)	Folder 55
Scope and Contents		
Rabinowitch, Eugene I. (2 portraits).		
Rabinowitch, Anya (portrait).		
Rabinowitch, Victor (2 portraits).		
Group photograph, including Eugene Rabinowitch, taken at conference held at the Institute on Man and Science, October 31-November 1, 1968.		

Photographs, Undated	Box 6 (6- Photographs)	Folder 56
Scope and Contents		
Group photograph of participants at 1970 Pugwash Conference at Fontana, Wisconsin.		
Three negatives of photosynthesis graphs.		
Three containers of 148 slides of photo-synthesis graphs.		

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Tape Recordings, 1958, Undated

Scope and Contents

This Series consists of nine reels of tape recordings. In addition, there are fourteen tape cassettes which are duplicates of the reel recordings. The tape recordings include four lectures by Rabinowitch on the subject of photosynthesis; an interview of Rabinowitch by Duncan MacDonald; a Rabinowitch lecture concerning communism and the Soviet Union; a debate between Rabinowitch and Morris Liebman; and a Rabinowitch lecture about the effect of the scientific revolution on man and society. The researcher

should note that the tape recordings are of very poor quality. Material has been recorded at various speeds on the same tape. Tapes have also been reused, so that a lecture may have background music.

Title/Description	Instances	
Eugene I. Rabinowitch lecture on communism and the Soviet Union, Undated <u>Physical Description:</u> 1 cassette <u>Digital Object:</u> Online object uploaded typically on user request.	Box 6 (7-Tape Recordings)	Cassette 1
Eugene I. Rabinowitch lecture on the effect of the scientific revolution on man and society, Undated <u>Physical Description:</u> 1 cassette <u>Digital Object:</u> Online object uploaded typically on user request.	Box 6 (7-Tape Recordings)	Cassette 2
Eugene I. Rabinowitch and Morris Liebman debate sponsored by the Peace Association of America, Undated <u>Physical Description:</u> 1 cassette <u>Digital Object:</u> Online object uploaded typically on user request.	Box 6 (7-Tape Recordings)	Cassette 3
Duncan MacDonald interview of Eugene I. Rabinowitch on station WQXR, 1966 August 19 <u>Physical Description:</u> 1 cassette <u>Digital Object:</u> Online object uploaded typically on user request.	Box 6 (7-Tape Recordings)	Cassette 4
Eugene I. Rabinowitch lecture on photosynthesis, 1958 June 30	Box 6 (7-Tape Recordings)	Cassette 5
3 cassettes, Undated	Box 6 (7-Tape Recordings)	Cassette 6
Eugene I. Rabinowitch lecture on chloroplasts in photosynthesis, 1958 July 1 <u>Physical Description:</u> 2 cassettes	Box 6 (7-Tape Recordings)	Cassette 7
Eugene I. Rabinowitch lecture on chlorophyll as an oxidation reduction catalyst in photosynthesis, 1958 July 7 <u>Physical Description:</u> 2 cassettes	Box 6 (7-Tape Recordings)	Cassette 8
Eugene I. Rabinowitch lecture on the absorption spectrum in photosynthesis, 1958 July 8 <u>Physical Description:</u> 3 cassettes	Box 6 (7-Tape Recordings)	Cassette 9

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