Wallace R. Brode

A Register of His Papers in the Library of Congress

Prepared by Harry G. Heiss



Manuscript Division, Library of Congress

Washington, D.C.

2007

Contact information: http://lcweb.loc.gov/rr/mss/address.html

Finding aid encoded by Library of Congress Manuscript Division, 2007

Finding aid URL: http://hdl.loc.gov/loc.mss/eadmss.ms007098

Collection Summary

Title: Wallace R. Brode Papers **Span Dates:** 1901-1974 **Bulk Dates:** (bulk 1928-1969)

ID No.: MSS62000

Creator: Brode, Wallace R. (Wallace Reed), 1900-

Extent: 8,750 items; 25 containers plus 1 classified; 10 linear feet

Language: Collection material in English

Repository: Manuscript Division, Library of Congress, Washington, D.C.

Abstract: Educator, scientist, and government official. Correspondence, diaries, memoranda, speeches and writings, subject

files, and other papers relating primarily to Brode's career in science and government.

Selected Search Terms

The following terms have been used to index the description of this collection in the Library's online catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically therein.

Personal Names

Astin, Allen Varley, 1904-1984.

Brademas, John, 1927-

Brode, Ione Sundstrom.

Brode, Robert B. (Robert Bigham), 1900-

Brode, Wallace R. (Wallace Reed), 1900-

Bronk, Detlev W. (Detlev Wulf), 1897-1975.

Bush, Vannevar, 1890-1974.

Douglas, William O. (William Orville), 1898-1980.

Duffendack, Ora S. (Ora Stanley) b. 1890.

Dulles, John Foster, 1888-1959.

Eisenhower, Dwight D. (Dwight David), 1890-1969.

Fawcett, Novice G.

Hernaiz, Angel.

Herter, Christian Archibald, 1895-1966.

Humphrey, Hubert H. (Hubert Horatio), 1911-1978.

Kohler, Foy D.

MacArthur, Douglas, 1880-1964.

McGovern, George S. (George Stanley), 1922-

Mitchell, W. P.

Nauheimer, G. Francis.

Piret, Edgar L.

Pollack, Herman W.

Reynolds, Walter L.

Stanerson, B. R.

Weeks, Sinclair, 1893-1972.

Wolfle, Dael Lee, 1906-

Organizations

American Chemical Society.

Naval Ordnance Test Station (Inyokern, Calif.)

United States. Dept. of Commerce.

United States. Dept. of State.

United States. National Bureau of Standards.

United States. Office of Scientific Research and Development.

United States. War Dept. Alsos Mission.

Subjects

Atomic bomb--Germany.

Colors.

Dyes and dyeing.

Indian textile fabrics--Southwest, New.

Indians of North America--Southwest, New.

Internal reflection spectroscopy.

Optics.

Rockets (Ordnance)--Research--California.

World War, 1939-1945--Science.

Locations

United States--Politics and government--1953-1961.

Occupations

Educators.

Public officials.

Scientists.

Administrative Information

Provenance:

The papers of Wallace R. Brode, educator, scientist, and government official, were given by his widow, Ione Sundstrom Brode, to the Library of Congress in 1986.

Processing History:

The papers of Wallace R. Brode were arranged and described in 1996 and the finding aid revised in 2007.

Transfers:

Items have been transferred from the Manuscript Division to other custodial divisions of the Library. A phonograph record has been transferred to the Recorded Sound Section of the Motion Picture, Broadcasting, and Recorded Sound Division. Maps have been transferred to the Geography and Map Division. Photographs have been transferred to the Prints and Photographs Division. Theater guides have been transferred to the Music Division. All transfers are identified in these divisions as part of the Wallace R. Brode Papers.

Copyright Status:

The status of copyright in the unpublished writings of Wallace R. Brode is governed by the Copyright Law of the United States (Title 17, U.S.C.).

Security Classified Documents

Government regulations control the use of security classified items in this collection. Manuscript Division staff can furnish information concerning access to and use of classified material.

Preferred Citation:

Researchers wishing to cite this collection should include the following information: Container number, Wallace R. Brode Papers, Manuscript Division, Library of Congress, Washington, D.C.

Biographical Note

Date Event

1900, June 12 Born, Walla Walla, Wash.

1921 B.S., Whitman College, Walla Walla, Wash. 1922 M.S., University of Illinois, Urbana-Champaign, Ill. 1923-1926 Chemist, National Bureau of Standards, Washington, D.C. 1925 Ph.D., University of Illinois, Urbana-Champaign, Ill. 1926-1928 Guggenheim fellow 1928-1948 Professor, Ohio State University, Columbus, Ohio 1936 Member, solar eclipse expedition 1941 Married Ione Sundstrom 1942-1944 Member, National Defense Research Committee 1942-1945 Member, War Metallurgy Committee 1944-1945 Head, liaison office, Office of Scientific Research and Development, Paris, France Member, Alsos mission 1945 Elected member, National Academy of Sciences 1945-1947 Head, Science department, Naval Ordnance Test Station, Inyokern, Calif. Associate director, National Bureau of Standards, Washington, D.C. 1947-1958 1950-1960 Editor, Journal of the Optical Society of America 1951-1960 Director, American Chemical Society 1954-1957 Chairman, Science Research Society of America 1958 President, American Association for the Advancement of Science Member, President's Committee on Scientists and Engineers Member, board of governors, American Institute of Physics Recipient, Exceptional Service medal, Commerce Department Recipient, Applied Spectroscopy medal, Society of Applied Spectroscopy 1958-1960 Member, President's Science Advisory Committee Science advisor, State Department 1959 Chairman, board of directors, American Association for the Advancement of Science 1960 Member, U.S. Science Manpower Commission Recipient, Priestley medal, American Chemical Society 1960-1963 Member, board of governors, American Institute of Physics

1961 President, Optical Society of America

1961-1962 President, Sigma Xi

1965-1967 Foreign secretary, American Chemical Society

1974, Oct. 10 Died, Washington, D.C.

Scope and Content Note

The papers of Wallace Reed Brode (1900-1974) span the years 1901-1974, with the bulk of the material produced during the period from 1928 to 1969. The collection consists of personal and official correspondence, research files, and speeches and writings documenting Brode's career as a research chemist, university professor, science organization executive, and government science administrator. The papers are organized into the following series: Correspondence, Speeches and Writings, Subject File, and Classified.

The <u>Correspondence</u> series contains letters, memoranda, telegrams, and attachments and is arranged chronologically. The <u>Speeches and Writings</u> series includes typed, printed, or handwritten copies of speeches and writings by Brode, as well as related correspondence and research notes, all arranged by title. The <u>Subject File</u> contains awards, correspondence, currency samples, diaries, financial records, magazine articles, newspaper clippings, patents, personnel records, photographs, press releases, printed matter, research notes, social invitations, travel records, and other items arranged alphabetically by topic or type of material.

Significant correspondents represented in the papers include John Brademas, Robert B. Brode, Detlev W. Bronk, Vannevar Bush, William O. Douglas, Ora S. Duffendack, Novice G. Fawcett, Angel Hernaiz, Christian Archibald Herter, Hubert H. Humphrey, Foy D. Kohler, Douglas MacArthur, George S. McGovern, W. P. Mitchell, G. Francis Nauheimer, Edgar L. Piret, Herman W. Pollack, Walter L. Reynolds, B. R. Stanerson, and Dael Lee Wolfle.

The papers are particularly comprehensive in their coverage of Brode's tenure as director, 1951-1960, and foreign secretary, 1965-1967, of the American Chemical Society; associate director, 1947-1958, of the National Bureau of Standards; and science advisor, 1958-1960, to Secretary of State John Foster Dulles. There is considerable material concerning the dismissal of Allen Varley Astin as director of the National Bureau of Standards by Sinclair Weeks, secretary of commerce during the Eisenhower administration. In that episode Brode testified before Congress that the bureau had been under "terrific pressure" to approve a commercial battery additive which its tests had proved to have no value.

Some papers in the collection pertain to defense positions Brode held during World War II, particularly with the Office of Scientific Research and Development and the Alsos mission to collect information on enemy scientific research, especially atomic energy experimentation. Other defense-related files concern Brode's administrative and technical advisory positions in the rocket research laboratories of the Naval Ordnance Test Station at Invokern, California, from 1945 to 1947.

Brode was one of triplet brothers, all of whom, like their father, Howard Stidham Brode, became professors of science. Papers documenting Brode's teaching career at Ohio State University, 1928-1948, are scant. His work as a chemist, however, is well represented by scientific publications, speeches, and research records. Brode was a recognized leader in the field of spectroscopy and applied optics, and most of his laboratory research and scientific publications, both at Ohio State and the National Bureau of Standards, pertain to steric effects in dyes and absorption spectra related to color and dyes. The collection also contains material about Brode's pioneering efforts to promote the use of molecular models with colored balls and wooden pegs as educational tools for representing the structure of organic molecules.

The collection includes material illustrating an avocational interest Brode and his wife, Ione "Sunny" Sundstrom, had in handcrafted rugs and Indian culture of the American Southwest. Brode was considered an expert on the dyestuffs and dying techniques used by native Americans.

Arrangement of the Papers

This collection is arranged in four series:

- Correspondence, 1919-1971
- Speeches and Writings, 1924-1971
- Subject File, 1901-1974
- Classified, 1960

Description of Series

Container Series

BOX 1 Correspondence, 1919-1971

Letters, memoranda, telegrams, and attachments.

Arranged chronologically.

BOX 1-5 Speeches and Writings, 1924-1971

Typed, printed, or handwritten copies of speeches and writings by Brode with related

correspondence and research notes.

Arranged alphabetically by title of speech or writing.

Subject File, 1901-1974

Awards, correspondence, samples and proof sheets of internatinal currency, diaries, financial records, magazine articles, newspaper clippings, patents, personnel records, photographs, press releases, printed matter, research notes, social invitations, travel records, and miscellaneous items.

Arranged alphabetically by topic or type of material.

BOX CL 1 Classified, 1960

Government classified documents.

Arranged and described according to the series, containers, and folders from which the items were removed.

Container List

Container	Contents
вох 1	Correspondence, 1919-1971
	Letters, memoranda, telegrams, and attachments.
	Arranged chronologically.
вох 1	1919-1971, n.d.
	(4 folders)
вох 1-5	Speeches and Writings, 1924-1971
	Typed, printed, or handwritten copies of speeches and writings by Brode with related correspondence and research notes.
	Arranged alphabetically by title of speech or writing.
BOX 1	"Address to Welcome Illuminating Engineering Society," 1950-1951
BOX 1	"A" miscellaneous, 1926-1951, 1960-1964, n.d.
BOX 1	Book reviews, 1932-1933, 1941-1969, n.d.
BOX 1	"Brown Horses Eat More Than White Horses," 1970-1971
BOX 2	"B" miscellaneous, 1928, 1940-1941, 1954-1960, n.d.
BOX 2	"Chemical Research and Facilities at the National Bureau of Standards," 1948-1956, n.d.
BOX 2	Chemical Spectroscopy , 1943-1944
BOX 2	"Chemistry of the Future," 1957
BOX 2	"Colorful Americans," 1962-1969 See also Container 7, American Indian dyestuffs
вох 2	Critique, "The Recovery of Nerve: Some Implications of the New World of Science and Technology," 1964-1965, n.d.
вох 2	"C" miscellaneous, 1926-1934, 1950, 1950-1960, 1969, n.d. (2 folders)
BOX 2	"Development of a Science Policy," 1959-1960
вох 2	"D" miscellaneous, 1924-1926, 1938, 1969, n.d.
BOX 2	"Exchange, Publication and Intercommunication of Science," 1959
BOX 2	"The Expanding Science Program and Our National Science Policy," 1961, n.d.
BOX 2	"E-F" miscellaneous, 1926-1934, 1942, 1950-1961, n.d.
вох 2	George Kimball Burgess , 1932, 1956-1958, n.d.
вох 3	"Governmental Concerns and Interests in Our National Standards Work," 1964
вох 3	"G" miscellaneous, 1962
вох 3	"Harvey W. Wiley and Our National Science Policy," 1960-1964
вох 3	"H" miscellaneous, 1957, 1968, n.d.
вох 3	"International Collaboration among Scientific Societies Concerning Scientific Information," 1966, n.d.
вох 3	"International Implications of the Development of Science and Technology," 1959
вох 3	"International Science," 1958-1962, n.d.
вох 3	"I-L" miscellaneous, 1936-1941, 1949-1954, 1961-1969, n.d.
вох 3	"Monkeys [sic] Story; Freedom of the Scientific PressAre There Ethical Problems to Consider?" 1956, n.d.
вох 3	"M" miscellaneous, 1927-1932, 1942, 1951, n.d.

948-1961, n.d. cientist," 1960, n.d. h," 1960 970, n.d. ation," 1952, n.d.
948-1961, n.d. cientist," 1960, n.d. h," 1960 970, n.d. ntion," 1952, n.d.
948-1961, n.d. cientist," 1960, n.d. h," 1960 970, n.d. ntion," 1952, n.d.
cientist," 1960, n.d. h," 1960 970, n.d. ution," 1952, n.d.
cientist," 1960, n.d. h," 1960 970, n.d. ution," 1952, n.d.
h," 1960 970, n.d. ntion," 1952, n.d.
970, n.d. ution," 1952, n.d.
ution," 1952, n.d.
tune of Instantable I alsalad Committee
ture of Isotopically Labeled Organic
962, n.d.
nd Education," 1957-1958
rnment Agencies," 1950, n.d.
f Scientific Information," 1950, n.d.
f Science," 1959-1962
eets of internatinal currency, diaries, financial ings, patents, personnel records, photographs, s, social invitations, travel records, and
erial.
w York, N.Y., 1962, n.d.
Science
of Standards, 1954-1958
1065
1965

Container	Contents
вох 7	Headquarters building, 1956-1960, n.d.
	(2 folders)
BOX 7	Lehigh Valley, Pa., section, 1959-63, 1969-71, n.d.
BOX 7	Miscellany, 1938-1941, 1951, 1957, 1969, n.d.
BOX 7	President, 1961-1970, n.d.
BOX 7	President's dinners, 1968-1970
BOX 7	Washington, D.C., section, 1951, 1961-1963, 1969, n.d.
BOX 7	American Indian dyestuffs, 1962, 1969-1970, n.d. See also Container 2, "Colorful Americans"
BOX 7	American Institute of Physics, 1960-1961
BOX 7	American Physical Society, 1953, 1960
BOX 7	Arcs and Sparks, 1962-1963
BOX 7	Assay Commission, Bureau of the Mint, 1952
BOX 8	Awards and honorary degrees, 1945-1962, 1970-1972
BOX 8	Basic Magnesium, Inc., 1942-1945, n.d.
	(2 folders)
BOX 8	Berichte der Deutschen Chemischen Gesellschaft, 1901-1904
BOX 8	Bibliographies, 1930-1933, 1942, 1968, n.d.
BOX 8	Biographical data, ca. 1935, 1945-1968, 1974, n.d.
BOX 8	British Association for the Advancement of Science, 1955-1959
BOX 8	British Commonwealth Scientific Committee, 1958-1960
BOX 8	Brookings Institution, Washington, D.C., 1958
BOX 9	Central Intelligence Agency
BOX 9	General, 1947-1948, 1963, n.d.
вох 9	"The Responsibilities of the Scientific Branch within the Central Intelligence Agency," 1948, n.d.
BOX 9	Chemical Society, London, England, 1968-1969, n.d.
BOX 9	Chemistry in Britain, 1963-1969, n.d.
BOX 9	Chemists Club, 1967
BOX 9	Condon, Edward U., 1948-1952, n.d.
BOX 9	Conferences
BOX 9	British Commonwealth Scientific Conference, 1958-1959, n.d.
BOX 9	Colloquium Spectroscopicum Internationale, 1951-1963
	(2 folders)
BOX 9	Conference on Cultural Relations with the Soviet Union, 1960, n.d.
BOX 9	Conference on Science and Policy, 1958-1959
BOX 9	Crittenden, Eugene Casson, 1956
BOX 9	Currency printing, 1926-1929, n.d.
BOX 9	D. I. Mendeleev All-union Chemical Society, 1969
BOX 9	Diaries
BOX 9	1949-1957
	(2 folders)
BOX 10	1958
BOX 10	Environment, 1961-1962, 1969-1970
BOX 10	Federation of American Scientists, 1953-1956
BOX 10	Ford Foundation, 1961-1962, n.d.
BOX 10	Gessellschaft Deutscher Chemiker, 1969
BOX 10	Glare Research Institute, Chicago, Ill., 1947-1956, n.d.

Subject File, 1901-1974

Container	Contents
вох 10	Glass filters
BOX 10	4356Å Hg line filter, n.d.
BOX 10	Bureau of Ships contract, 1947-1949, n.d.
BOX 10	Corning glass filter no. 5120, 1949, n.d.
BOX 10	Corning glass filters (Mr. Hague), n.d.
BOX 10	Filter combinations, n.d.
BOX 10	German interference filters nos. 15 and 17, n.d.
BOX 10	Jena, Bausch & Lomb, Pittsburgh Plate Glass, and Corning Glass, n.d.
BOX 10	Manufacturing guide, section II, 1947
BOX 10	Miscellaneous filters with irregular cutoff, n.d.
BOX 10	Ohio State University, Columbus, Ohio, data, n.d.
BOX 10	(2 folders)
вох 11	Patents
BOX 11	Brode, Wallace R., and Robert J. Morris, 1945-1952, n.d.
BOX 11	Duffendack, Ora S., and Ralph A. Wolfe, 1934
BOX 11	Plastic infrared filters investigation report, 1949
BOX 11	Guggenheim fellowship, 1924-1931, n.d.
BOX 11	Harvard University-Massachusetts Institute of Technology expedition to Russia <u>See Container</u>
201211	23, Solar eclipse expedition
BOX 11	Humphrey, Hubert H., 1955-1972, n.d.
	(2 folders)
BOX 11	International Commission for Optics, 1959, n.d.
BOX 11	International Council of Scientific Unions, 1958, n.d.
BOX 11	International Union of Pure and Applied Chemistry, 1955-1961, 1969
BOX 11	Invitations, social, 1958-1960, 1969, n.d.
BOX 11	Journal of Chemical Education, 1941, 1948
BOX 11	Manpower
BOX 11	1954-1964
BOX 12	1968-1972, n.d.
BOX 12	Massachusetts Institute of Technology, Cambridge, Mass., 1936-1941
BOX 12	Massachusetts Institute of Technology-Harvard University expedition to Russia <u>See Container</u> 23, Solar eclipse expedition
POV 12	Miscellany, 1925, 1935, 1950-1969, n.d.
BOX 12 BOX 12	Mitchell Optical Co.
BOX 12 BOX 12	Correspondence, 1950-1956, n.d.
BOX 12	(4 folders)
вох 12	Research reports and notes
BOX 12 BOX 12	1948-1955
BOX 12	(2 folders)
вох 13	1956, n.d.
BOX 13	(2 folders)
вох 13	Molecular models, 1931-1949, 1958-1968, n.d.
BOX 13	National Academy of Sciences, 1936, 1958-1962, 1969, n.d.
BOX 13	National Bureau of Standards
BOX 13	Associate director, 1947-1948, 1957-1962, 1969, n.d.
BOX 13	Battery additives
DOA 13	Duttery addition

Contents
1934-1939, 1947-1952
(4 folders)
1953, Jan. 5-Apr. 16
(5 folders)
1953, Apr.16-24
(6 folders)
1953, Apr. 25-1954, Jan. 19
(6 folders)
1954, Jan. 20-1958, Jan.
(9 folders)
1958, Apr1961, 1969-1970, n.d.
(8 folders)
Committee assignments, 1948-1957
Miscellany, 1948-1955, n.d.
Security officer, 1947-1955, n.d.
National science policy
1953-1961
(4 folders)
1962-1965, n.d.
(2 folders)
Naval Ordnance Test Station, Inyokern, Calif., 1945-1951, 1961-1970, n.d.
(3 folders)
Office of Scientific Research and Development
1931, 1943-1945, Mar.
(2 folders)
1945, Apr1954, n.d.
(3 folders)
Ohio State University, Columbus, Ohio
General correspondence, 1928-1932, 1943-1948, 1958, n.d.
Miscellany, ca. 1933-1947, 1955, 1970-1971, n.d.
(2 folders)
Organic chemistry notebook, 1937
Optical Society of America, 1949-1951, 1957-1966, n.d.
People-to-People, Inc., n.d.
Personnel records, 1921-1929, 1937-1963, n.d.
(2 folders)
Photographs, 1956-1963, 1969-1970, n.d.
(2 folders)
President's Commission on National Goals, 1960, n.d.
President's Commission on Scientists and Engineers, 1958
President's Science Advisory Committee, 1959-1965, n.d.
"Prize Winners in Chemistry," 1936
Rand Corp., 1961-1965, n.d.
Remsen, Ira, 1928, 1972, n.d.
Royal Society, 1959-1960
Science advertising, 1934
Scientific Research Society of America, 1950-1973
Selentific Research Society of America, 1750-1775

Subject File, 1901-1974

Container	Contents
вох 23	Scientists and Engineers for Johnson-Humphrey <u>See Container 11</u> , Humphrey, Hubert H.
BOX 23	Sigma Xi <u>See same container</u> , Scientific Research Society of America
BOX 23	Société Chimique de France, n.d.
BOX 23	Society for Applied Spectroscopy, 1940, 1958-1962, 1968-1971
BOX 23	Solar eclipse expedition, 1927-1938, n.d.
BUX 23	(2 folders)
BOX 23	Spectrochimica Acta editorial advisory board, 1956-1957, n.d.
BOX 23	State Department, science advisor
BOX 23	Appointment
BOX 23	Congratulatory correspondence, 1958
	(2 folders)
BOX 23	General, 1958-1959
BOX 23	Financial records, 1953-1959, n.d.
BOX 24	Miscellany, 1957-1960
BOX 24	Resignation, 1960, n.d.
BOX 24	Science attaché program <u>See also Classified</u>
BOX 24	1948-1967
	(7 folders)
BOX 25	Undated
	(2 folders)
BOX 25	Travel, 1955-1966, n.d.
	(3 folders)
BOX 25	University of Illinois, Urbana-Champaign, Ill., 1924-1925
BOX 25	Vietnamese conflict, 1966, n.d.
BOX 25	Vinal, George Wood, 1948-1950, n.d.
BOX 25	Whitman College, Walla Walla, Wash., 1921, 1941, 1953-1967
BOX 25	Wiley, John P., 1924, 1968-71, n.d.
BOX 25	World War II, notes from the Allied front, n.d.
BOX CL 1	Classified, 1960
	Government classified documents.
	Arranged and described according to the series, containers, and folders from which the items were removed.
BOX CL 1	Subject File
BOX CL 1	State Department, science advisor
BOX CL 1	Science attaché program, 1960 (Container 24)