William Walden Rubey Papers

A Finding Aid to the Collection in the Library of Congress

Prepared by Kathleen M. Dondanville with the assistance of Sherralyn F. McCoy
Revised by Michael W. Giese

Manuscript Division, Library of Congress

Washington, D.C.

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Collection Summary

Title: William Walden Rubey Papers
Span Dates: 1920-1974
Bulk Dates: (bulk 1951-1971)
ID No.: MSS38471
Creator: Rubey, William Walden, 1989-1974
Extent: 32,250 items; 95 containers plus 1 oversize; 38 linear feet
Language: Collection material in English
Repository: Manuscript Division, Library of Congress, Washington, D.C.
Abstract: Geologist and educator. Correspondence, memoranda, manuscripts of articles, book reviews, speeches, reports, research notes, press releases, printed materials, maps, illustrations, and other papers pertaining primarily to Rubey's career with the United States Geological Survey, as consultant on geological projects, and as member of professional, scientific, and educational organizations.

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.

People
Aldrich, Henry R. (Henry Ray), b. 1891--Correspondence.
Hubbert, M. King (Marion King), 1903- --Correspondence.
Longwell, Chester R. (Chester Ray), 1887- --Correspondence.
Oriel, Steven S.--Correspondence.
Rubey, William Walden, 1898-1974.

Organizations
Geological Society of America. Committee on the War Effort.
Geological Survey (U.S.)
Geological Survey (U.S.). Strategic Minerals Program.
Lunar Science Institute.
Mohole project.

Subjects
Biosphere.
Earthquakes--Colorado--Denver Region.
Geological mapping--Middle West.
Geological mapping--West (U.S.)
Geology--Middle West.
Geology--Nomenclature.
Geology--Societies, etc.
Geology--West (U.S.)
Submarine geology.
Thrust faults (Geology)
Vanadium.
World War, 1939-1945--Science.

Places
Earth--Crust.
Earth--Mantle.

Occupations
Educators.

Geologists.

Administrative Information

Provenance

The papers of William Walden Rubey, geologist and educator, were given to the Library in 1974 by Mrs. Susan M. Rubey. A small addition was received by bequest of the Rubey estate in 1976.

Processing History

The papers of William Walden Rubey were arranged and described in 1992. The finding aid was revised in 2004.

Copyright Status

The status of copyright in the unpublished writings of William Walden Rubey is governed by the Copyright Law of the United States (Title 17, U.S.C.).

Preferred Citation

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

Biographical Note

Date	*Event*
1898, Dec. 19	Born, Moberly, Mo.
1919, Nov. 27	Married Susan Elsie Manovill
1920	A.B., University of Missouri, Columbia, Mo.
1920-1960	Geologist, United States Geological Survey
1922-1924	Instructor of geology, Yale University, New Haven, Conn.
1950-1951	Director, American Geological Institute
1953	D.Sc., University of Missouri, Columbia, Mo.
1955-1956	Visiting professor of geology at California Institute of Technology, Pasadena, Calif., and Johns Hopkins University, Baltimore, Md.
1960-1969	Professor of geology and geophysics, University of California, Los Angeles, Calif.
1960-1974	Member, National Science Board
1974	Died, Los Angeles, Calif.

Scope and Content Note

The papers of William Walden Rubey (1898-1974) span the years 1915-1974, with the bulk of the items concentrated in the period 1951-1971. The collection primarily documents Rubey's career with the United States Geological Survey, his consultant work on various geological projects, and his activities as a member of professional, scientific and educational organizations. Also included are materials relating to Rubey's technical speeches and writings in the earth sciences field. The collection is divided into the following series: General Correspondence, Speeches and Writings, Subject File, and Oversize.

The General Correspondence series, 1921-1974, primarily contains incoming and outgoing correspondence between Rubey and associates involved in the earth science fields. Much of the earlier correspondence relates to his work as a geologist for the United States Geological Survey and includes letters written and received while Rubey was performing geological field work in areas of the Midwest, Southwest, the northern Great Plains, and the northern Rocky Mountains. Later correspondence primarily pertains to his involvement with numerous scientific and educational associations and his interest in the research and writings of colleagues.

The Speeches and Writings series, 1923-1974, is mostly comprised of research notes, drafts, correspondence, final copies, printed versions, and other related materials pertaining to Rubey's articles, book reviews and introductions, speeches, and reports. Research notes in this series are highly technical and often contain complex mathematical and scientific formulations. The series features many of Rubey's ground-breaking articles, along with related correspondence, illustrative materials, and research notes. Included are materials pertaining to such seminal works as “The Geologic History of Sea Water,” “The Development of the Hydrosphere and Atmosphere,” and the controversial “Role of Fluid Pressure in the Mechanics of Overthrust Faulting.” Co-authored with M. King Hubbert, the latter article was the cause of much dissension in the geological field. Letters from colleagues in this file primarily pertain to the validity of Rubey and Hubbert's fluid pressure hypothesis. The authors' replies to published discussions and critiques of their theory are also found in this series.

The Subject File, 1915-1974, is comprised of correspondence, memoranda, reports, newspaper clippings, press releases, printed matter, geological maps, research notes, and other materials relating to Rubey's professional activities as a geologist. Although the series contains extensive files pertaining to projects Rubey conducted for the United States Geological Survey, complete documentation of his Survey career as a whole is lacking. Notable files include records documenting his work in standardizing the nomenclature and symbols used for defining carbonaceous and stratigraphic materials, several projects that took place in the western states, and various geological mapping projects. Other significant files relate to Rubey's work with the Survey's Strategic Minerals Program, in which he was charged with supervising surveys for vanadium, an important ore used by steel manufacturers during World War II as a steel hardener.

Also contained in the Subject File are correspondence, memoranda, and reports pertaining to Rubey's work as a member of many professional, educational, and scientific organizations. Included are correspondence, memoranda, and reports documenting his efforts in the Mohole project, a joint effort in the 1960s between the National Science Foundation and the United States government to obtain a complete core record of the layers of the earth's crust and the upper part of the underlying mantle. The project was later discontinued by Congress due to dissension between scientists and government representatives over the administration of the project, congressional charges of political influence and irregularities in the awarding of the engineering contract, and other factors. Correspondence in this file contains Rubey's candid impressions of what he felt were the root causes of the project's failure.

Other significant files pertain to Rubey's role in establishing the Lunar Science Institute, his work as a member of the Geological Society of America's Committee on the War Effort, which made recommendations to the army on the strategic employment of geologists in the battlefield during

World War II, and his efforts in conjunction with the United States Army Corps of Engineers to determine the cause of a series of earthquakes plaguing the Denver, Colorado, area.

Frequent correspondents include Henry R. Aldrich, M. King Hubbert, Chester R. Longwell, and Steven S. Oriel.

Arrangement of the Papers

The collection is arranged in four series:

- General Correspondence, 1920-1974
- Speeches and Writings, 1923-1974
- Subject File, 1915-1974
- Oversize, 1962-1966

Description of Series

Container	*Series*
BOX 1-12	General Correspondence, 1920-1974
	Incoming and outgoing correspondence with attachments between Rubey and friends, colleagues, and organizations.
	Arranged alphabetically by name of correspondent or organization and therein chronologically.
BOX 13-37	Speeches and Writings, 1923-1974
	Manuscripts in various stages of preparation, including notes, correspondence, illustrative materials, drafts, final copies, and printed versions of articles, book reviews, book introductions, miscellaneous writings, critiques of manuscripts written by colleagues, reports, and speeches.
	Arranged alphabetically by type of material and therein chronologically.
BOX 38-95	Subject File, 1915-1974
	Correspondence, memoranda, reports, notes, press releases, minutes of meetings, newspaper clippings, maps, photographs, and printed matter pertaining to Rubey's activities as a geologist for the United States Geological Survey and as a member of various scientific, professional, and educational organizations.
	Arranged alphabetically by topic or type of material and therein chronologically.
BOX OV 1	Oversize, 1962-1966
	Graphs concerning earthquakes and well-head pressure in Colorado.
	Organized and described according to the series, containers, and folders from which the items were removed.

Container List

Container	*Contents*
BOX 1-12	General Correspondence, 1920-1974
	Incoming and outgoing correspondence with attachments between Rubey and friends, colleagues, and organizations.
	Arranged alphabetically by name of correspondent or organization and therein chronologically.
BOX 1	Abelson, Philip N., 1953-1962
	Altschuler, Z. S., 1959-1962, undated
	Anderson, Charles A., 1942-1966
	Armstrong, Frank, 1945-1965
	"A" miscellaneous, 1939-1974, undated (2 folders)
	Ball, Max W., 1928-1950
	Bateman, Alan M., 1925-1957
	Behre, Charles H., Jr., 1929-1945, undated
	Bell, A. H., 1928-1930
	Berkner, Lloyd V., 1962-1973
	Berry, Edward W., 1925-1944
	Billings, Marland P., 1944-1949
	Birch, Francis, 1939-1973
	Boardman, Leona, 1928-1946
	Bradley, Wilmot H., 1924-1973
	Bowen, Norman L., 1938-1953
	Bramlette, Milton N., 1924-1969, undated
	Branson, E. B., 1926-1939
	Bronk, Detlev W., 1948-1963
	Bryan, Kirk, 1926-1949
	Bucher, Walter H., 1928-1968 (2 folders)
	Buddington, A. F., 1949-1960
BOX 2	Byerly, Perry, 1943-1968
	"B" miscellaneous, 1926-1974 (8 folders)
	Cairns, Robert W., 1964
	Campbell, Ian, 1951-1969
	Cannon, Ralph S., 1949-1968
	Chamberlin, Rollin T., 1934-1945
	Cloos, Ernst, 1944-1962
	Cloud, Preston E., 1951-1973, undated
	Cobban, William, 1947, 1959
	Cornell, S. D., 1954-1956
	Cottam, Clarence, 1967

Container	*Contents*
	Creagh, Agnes, 1959-1963
	Crosby, Gary W., 1967-1971
	Crosby, Irving B., 1935-1941
	Crowell, John, 1961-1973
	Curtis, Winterton C., 1931-1963
	"C" miscellaneous, 1925-1973 (4 folders)
BOX 3	Davis, Gregory, 1972-1973
	Denison, Rodger A., 1943-1957
	DeWolf, Frank W., 1921-1942
	Dille, Glenn S., 1929-1930
	Dobbin, C.E., 1930-1935
	Dodge, Homer L., 1944-1953
	Dorr, John A., 1969-1974
	Dott, Robert H., 1965-1973
	Duncan, Robert, 1970-1971
	"D" miscellaneous, 1921-1971, undated (4 folders)
	Eardley, A. J., 1936-1953
	Emberson, Frances G., 1945
	Ewing, Maurice, 1946-1974
	"E" miscellaneous, 1932-1972 (2 folders)
	Farrell, Agnes M., 1922-1926 (2 folders)
	Faul, Henry, 1946-1961
	Fenner, C. N., 1933-1934
	Flint, Richard F., 1928-1960
	Fox, Sidney W., 1956-1974
	Fryxell, Fritiof M., 1951-1955
BOX 4	"F" miscellaneous, 1929-1970, undated (3 folders)
	Gardner, Louis S., 1938-1949
	Garrels, Robert M., 1950-1968
	Gault, Richard H., 1947-1960
	Getting, Ivan A., 1971
	Gilluly, James, 1929-1973
	Glock, Waldo S., 1925-1946
	Graham, Clarence H., 1957-1960
	Green, Burdett, 1953-1968
	Green, Harry W., 1967-1969
	Griggs, David T., 1933-1973 (3 folders)
	"G" miscellaneous, 1928-1973 (7 folders)
	Hale, Lyle A., 1954-1960
	Hamilton, Warren, 1960-1967

Container	*Contents*
	Heald, Kenneth C., 1925-1962
BOX 5	Heard, Hugh, 1963-1966
	Hedbert, Hollis, 1936-1961
	Heroy, William B., 1944-1958
	Hess, Harry Hammond, 1939-1971
	(2 folders)
	Horberg, Leland, 1933-1953
	Horton, Robert E., 1933-1935
	Hubbert, King M., 1935-1974
	(4 folders)
	Hull, J. P. D., 1927-1950
	Hunt, Charles B., 1930-1958
	Hutchinson, Evelyn G., 1948-1971
	"H-J" miscellaneous, 1920-1972
	(8 folders)
BOX 6	Keller, Walter D., 1933-1966
	Kennedy, George, 1949-1970
	Klopsteg, Paul E., 1952-1968
	Knopf, Adolph, 1927-1951
	Krauskopf, Konrad B., 1945-1953
	Krumbein, William C., 1935-1958
	Kuiper, Gerard P., 1951-1956
	"K" miscellaneous, 1929-1974
	(4 folders)
	Lafon, Michel G., 1974
	Lane, E. W., 1933-1953
	Leighton, M. M., 1928-1971
	(2 folders)
	Leith, Andrew, 1956-1971
	Leonard, Al, 1962-1962
	Leopold, Luna B., 1951-1971
	Leverett, Frank, 1923-1929
	Levorser, Arville I., 1942-1947
	Library of Congress, 1962-1966
	Longwell, Chester R.
	1921-1942
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BOX 7	1943-1973
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	Love, David J., 1936-1955
	Lovering, T. S., 1933-1951
	"L" miscellaneous, 1924-1974
	(3 folders)
	McGookey, Donald P., 1959-1970
	McKnight, Edwin T., 1928-1966
	MacDonald, Gordon J., 1958-1967
	Mackin, Joseph H., 1944-1969

Container	*Contents*
	Macy, A. J., 1924-1929
	McKelvey, Vincent E., 1945-1972
	Melton, Frank A., 1923-1948
	Menard, Henry W., 1957-1963
	Middlebush, Frederick A., 1953
BOX 8	Middleton, E. R., 1965-1966
	Moore, Raymond C., 1921-1967
	Moulton, Gail F., 1923-1944
	"M" miscellaneous, 1926-1973
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	Newell, Norman D., 1939-1949
	Newhouse, Walter H., 1948-1949
	Nolan, Thomas B., 1934-1974, undated
	Nye, Selden S., 1945-1963
	"N" miscellaneous, 1927-1969
	Oriel, Steven S.
	1961-1965
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BOX 9	1966-1971
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	Osborn, Elburt F., 1965-1968
	"O" miscellaneous, 1925-1972
	Peck, Raymond E., 1939-1964
	Pecora, William T., 1951-1971
	Pettijohn, Francis F., 1952-1971
	Pettersson, Hans, 1947-1954
	Platt, Lucian B., 1956-1964
	Potter, Paul Edwin, 1951-1959
	Powers, Sidney, 1926-1927
	Press, Frank, 1962-1973
	Pye, Willard D., 1944-1945
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	Raleigh, Berry, 1961-1966
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BOX 10	Robbins, William J., 1954-1963
	Robert, Walter O., 1963-1967
	Robinove, Charles J., 1956-1957
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	Ronov, Alexander B., 1956-1973
	Ruby, Glenn M., 1925-1944, 1970-1971
	"R" miscellaneous, 1925-1973
	(3 folders)
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Container	*Contents*
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	Slichter, Louis B., 1950-1966
	Smith, Waldo E., 1947-1960
	Spieker, Edmund M., 1928-1972 (2 folders)
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BOX 11	"Shep-Swi" miscellaneous, 1929-1974 (5 folders)
	Taylor, S. Ross, 1968-1971
	Thom, W. Taylor, 1923-1959
	Tracey, Joshua I., 1953-1963
	Trask, Parker D., 1928-1956
	Tunell, George, 1948-1966
	Turano, Rosalind D., 1960-1961, undated
	Tuttle, Frank O., 1956-1958
	Titensor, Sidney, 1927-1950
	"T" miscellaneous, 1924-1973
	Urey, Harold C., 1950-1973
	"U-V" miscellaneous, 1926-1972 (2 folders)
	Voight, Berry, 1973-1974
BOX 12	Waters, Aaron C., 1946-1965, undated
	Weaver, Charles E., 1939-1949
	White, Lynn, Jr., 1958-1962
	Wentworth, Chester K., 1928-1959, undated
	Weller, Marvin J., 1928-1955, undated (2 folders)
	Wetherill, George W., 1959-1967
	Whipple, Fred L., 1949-1950
	Wilkinson, Cecil J., 1934-1952
	Williams, James S., 1920-1955, undated
	Wilmot, Sydney, 1937-1938
	Wilson, John Tuzo, 1953-1971
	Woodford, Alfred O., 1932-1955
	"W" miscellaneous, 1927-1974 (4 folders)
	Yen, John T., 1946-1965
	"Y-Z" miscellaneous, 1923-1956 (2 folders)
BOX 13-37	Speeches and Writings, 1923-1974
	Manuscripts in various stages of preparation, including notes, correspondence, illustrative materials, drafts, final copies, and printed versions of articles, book reviews, book introductions, miscellaneous writings, critiques of manuscripts written by colleagues, reports, and speeches.

Container	*Contents*
	Arranged alphabetically by type of material and therein chronologically.
BOX 13	Articles
	1926, "Determination and the Use of Thicknesses of Incompetent Beds in Oil Field Mapping and General Structural Studies," *Economic Geology*
	1927, "The Effect of Gravitational Compaction on the Structure of Sedimentary Rocks: A Discussion," *Bulletin of the American Association of Petroleum Geologists*
	1928, "Gullies in the Great Plains Formed by Sinking of the Ground," *American Journal of Science*
	1929, "Origin of the Siliceous Mowry Shale of the Black Hills Region," *Shorter Contributions to General Geology*, United States Geological Survey
	1930
	"Lithologic Studies of Fine-grained Upper Cretaceous Sedimentary Rocks of the Black Hills Region," *Shorter Contributions to General Geology*, United States Geological Survey
	"Shortening of Folded Strata and Scale of Structure Section"
	Drafts
	Research notes
	Computations
	Depth of folding
	H and B structure
	Laboratory model
	Mechanics of rupture
	Miscellaneous structure
	1933
	"Equilibrium Conditions in Debris-laden Streams," *Transactions of the American Geophysical Union*
	"Settling Velocity of Gravel, Sands, and Silt Particles," *American Journal of Science*
	Correspondence and drafts, 1932-1933
	Printed version
	"The Size Distribution of Heavy Minerals within a Water-laid Sandstone", *Journal of Sedimentary Petrology*
	Correspondence and notes, 1932-1933
	Drafts
	Printed version
BOX 14	1938
	"The Force Required to Move Particles on a Stream Bed," *Shorter Contributions to General Geology*, United States Geological Survey
	For additional material see Container 34, 1935, Apr. 10
	Printed version
	Research notes
	Coefficient of frictional resistance
	General
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	G. K. Gilbert's experiment
	(2 folders)

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	Mean velocities
	Settling velocities
	Stream profiles
BOX 15	Discussion of "The Passage of Turbid Water through Lake Mead," by N. C. Grover and G. S. Howard, *American Society of Civil Engineers*
	1951, "Geologic History of Sea Water: An Attempt to State the Problem," *Bulletin of the Geological Society of America*
	Correspondence
	Illustrative materials
	(2 folders)
	Printed version
	Requests for copies, 1951-1954, 1973, undated
	Research notes
	Abundance of gases
	Area of continents and thickness of sediments
	Average shale
	$CaCO_2$
	CO_2 equivalent
	Deposition and saturation
	Population and effect on CO_2 equilibrium
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	Composition of earth's crust
	Composition of Sandstone, Shale, Limestone
	Deep sea sediments
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	Calculations of a and c, Recent-Eocene
	Deep sea and continental sediments (2 folders)
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	Isostatics and differentials
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	Partial melting
	pH of primitive oceans (2 folders)
	Pressure vs. depth
	Spitzer equation
	Thermal springs
	Thickness
	Water
BOX 19	1955
	"The Development of the Hydrosphere and Atmosphere, with Special Reference to Probable Composition of the Early Atmosphere," Crust of the Earth Symposium, *Geological Society of America*, special paper *See also Container 35*, 1954, Oct. 14
	Correspondence, 1953-1955
	Drafts (4 folders)
	Printed version
	Research notes, 1954-1955
	Atmosphere from cosmic abundance
	Atmosphere from excess volatiles
	Revision notes
	"Early Structural History of the Overthrust Belt of Western Wyoming and Adjacent States," *Wyoming Geological Association Guidebook*, 1952-1955
	1959
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting," co-authored with M. King Hubbert, *Bulletin of the Geological Society of America* *See also Container 37*, 1957, Nov. 5
	Corrections
	Correspondence, 1957-1961 (6 folders)

Container	*Contents*
BOX 20	Critiques and editing by colleagues, 1958
	Drafts, 1958
	(6 folders)
	Errata
BOX 21	Illustrative materials
	Printed version
	Requests for copies, 1959-1969, undated
	Research notes
	Abnormal pressure and rate of sedation
	Diagrammatic structure sections
	Fault thrusts
BOX 22	General
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	Geologic rates in past, world maximum thickness
	Gulf coast
	(2 folders)
	[K^1/a^3 vs. $\in$]
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	Permeability
	Krumbein and Casagrande
	Overthrust belt
	Perry-porosity diagram, 1958-1959
	Rates of deformation
	Rates of geosynclinal sinking
	Relative thickness of differential ages
	Slide origins of thrusts
	Terzaghi, Macey
	Theory
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting: A Discussion by D. T. Griggs and C. B. Raleigh," *Bulletin of the Geological Society of America*
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting: A Discussion by Walter L. Moore and Lymon C. Reese," *Bulletin of the Geological Society of America*
BOX 23	1960
	"Mechanics of Overthrust Faulting and the Development of Abnormal Fluid Pressure," co-authored with G. T. Griggs and C. B. Raleigh
	Correspondence, 1959-1960
	(8 folders)
	Draft
	"Orogeny," *McGraw-Hill Encyclopedia*, 1958-1960
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting: Reply to a Discussion by Hans P. Laubscher," *Bulletin of the Geological Society of America*
	Correspondence, 1959-1960
	Drafts
	(2 folders)

Container	*Contents*
	Printed version
BOX 24	1961
	"Age of the Evanston Formation, Western Wyoming," *Wyoming Geological Association Guidebook and Short Papers in the Geologic and Hydrologic Sciences*, United States Geologic Survey
	"Diamictite Facies of the Wasatch Formation in the Fossil Basin, Southwestern Wyoming," *Short Papers in the Geologic and Hydrologic Sciences*, United States Geological Survey
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting: Reply to Discussion by Francis Birch," co-authored with M. King Hubbert, *Bulletin of the Geological Society of America*
	"Role of Fluid Pressure in Mechanics of Overthrust Faulting: Reply to Discussion by Walter L. Moore," co-authored with M. King Hubbert, *Bulletin of the Geological Society of America*
	1965, "Role of Fluid Pressure in Mechanics of Overthrust Faulting: Reply to Discussion by Gregory A. Davis," co-authored with M. King Hubbert, *Bulletin of the Geological Society of America*
	(3 folders)
	1966
	"Orogeny," *McGraw-Hill Encyclopedia*, 1966-1967
	"Tectonic Implications of Gypsum Dehydration," co-authored with Hugh C. Heard, *Bulletin of the Geological Society of America*
	Correspondence, 1963-1965
	Critiques and editing by colleagues, 1964-1965
	Drafts
	(3 folders)
	Printed version
	Requests for copies
	Research notes
	General
	Gypsum and ophiolites
	Revisions
BOX 25	1968, "The Denver Earthquakes," *Science* *For additional material see Containers 45-47*, Denver earthquakes
	Award, Intersociety Committee for Rock Mechanics
	Correspondence, 1967-1969
	Drafts
	Illustrative materials
	Printed version
	Research notes
	Bleed off period
	CO_2 and photosynthesis
	Calculations
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	Carbon cycle and brucite deposition
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	Months
	Transient earth strains
	Van Poollen reports
	Volcanic gas calculations
	Water content and temperature of silicate melts
	Well head pressure, injection volumes, and quakes
	Z, confidence limits, etc., by days
	Revisions
BOX 27	1969, "Role of Cohesive Strength in the Mechanics of Overthrust Faulting and of Landsliding: Discussion," *Bulletin of the Geological Society of America*
	1971, "Orogeny," *McGraw-Hill Encyclopedia*
	1973, "New Cretaceous Formations in the Western Wyoming Thrust Belt," *Geological Survey Bulletin*, United States Geological Survey
	Correspondence and distribution list
	Printed version
	Biographical memoirs of colleagues
	1957, Charles K. Leith
	1970, Harry H. Hess
	Book introductions
	1963, *The Earth*, Life Nature Library series
	1968, *The Earth*, Life Nature Library series
	1974, "Fifty Years of the Earth Sciences; A Renaissance," introductory chapter to *Annual Review of Earth and Planetary Sciences*
	Correspondence, 1972-1974
	Drafts
	Notes
	Printed version
	Book reviews
	1934, *The Deformation of the Earth's Crust*, by Walter H. Bucher
	1941, *Strength and Structure of the Earth*, by Reginald A. Daly
	1966, *Advances in Earth Sciences*, ed. by P. M. Hurley

Container	*Contents*
	1968, *Government in Science: The U.S. Geological Survey*, by Thomas G. Manning
	Manuscripts critiqued by Rubey
	1926, "Oil Possibilities of the Black Hills Region," by E. G. Sinclair
	1927, "The Effect of Gravitational Compaction on the Structure of Sedimentary Rocks," by H. D. Hedberg
	1928, "The Compressibility of Sand-mica Mixtures," by Glennon Gilby
	1935, "Sedimentary Size Frequency Curves," by William C. Krumbein
	1941, "Some Experiments on the Transportation of Suspended Load," by V. A. Vononi and "Rational Equation of River-bed Profile," by S. A. Shulits
	1942, "Phosphorite Deposits on the Sea Floor off Southern California," by R. S. Dietz, O. Emery, and F. P. Shepard, 1941-1942
	(2 folders)
BOX 28	1950, "Water in Primordial and Derivative Magma and its Relations to the Pre-forming Fluid," by John D. Ridge
	1952, "Hypsometric Analysis of Erosional Topography," by Arthur N. Strahler
	1954, "Role of Water in Metamorphism," by Hatten S. Yoder, Jr.
	1960, "Evolution of Ocean Basins," by Harry H. Hess
	1962, "The Sodium Cycle and the Age of the Ocean," by D. A. Livingstone
	Correspondence and drafts
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	1963, "Rate of Growth of Continents," by Frank A. Menard
	1968, "Geometric and Physical Sealing of River Dimensions on the Earth and Moon," by J. J. Gilvarry
BOX 29	1973, "The Amsden Formation (Mississippian and Pennsylvanian) of Wyoming," by William J. Sando, MacKenzie Gordon, Jr., and J. T. Dutro
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	"Mineralogy, Petrography, and Petrology of the Carbonate and Phosphate Rocks of the Phosphatic Shale Member of the Phosphoria Formation at Coal Canyon, Wyoming," by R. A. Gulbrandsen
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	"The Graded Slopes and Profiles and the Adjusted Cross-sections of Streams"
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	1923, "Progress Report on a Subsurface Study of the Pershing Oil and Gas Field, Osage County, Oklahoma"
	1936, "Mineral Resources of the Region around Boulder Dam"
	1967, "Chemical Composition of Sedimentary Rocks in Colorado, Kansas, Montana, Nebraska, North Dakota, South Dakota, and Wyoming"
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	1926, Jan. 13, “Stream Piracy in North-eastern Wyoming,” Geological Society of Washington, Washington, D.C.
	1927, Feb. 9, “The Origin of the Mowry Shale,” Geological Society of Washington, Washington, D.C.
	1928, Jan. 11, “Possible Varves in Marine Cretaceous Shale in Wyoming,” Geological Society of Washington, Washington, D.C.
	1931
	Feb. 25, “The Illinois River, a Problem in Channel Equilibrium,” Geological Society of Washington, Washington, D.C.
	“A Need for Closer Cooperation among Students of Stream Work,” American Geophysical Union, Washington, D.C.
	1932, May 11, “Alluvial Islands: Their Origin and Effect upon Stream Regimen,” Geological Society of Washington, Washington, D.C.
	1933, “Equilibrium Conditions in Debris-laden Streams,” American Geophysical Union, Washington, D.C.
	1935, Apr. 10, “The Force Required to Move Particles on a Stream Bed,” Geological Society of Washington, Washington, D.C.
	1940, Feb. 28, “Chemical Evidence Bearing on Origin of a Group of Hot Springs,” Geological Society of Washington, Washington, D.C.
	1943, “Vanadiferous Shale in the Phosphoria Formation, Wyoming and Idaho,” American Institute of Mining and Metallurgical Engineers, New York, N.Y.
	1948, Dec., “The Problem of Changes in Composition of Sea Water and Atmosphere during the Geologic Past,” Geological Society of Washington, Washington, D.C. *For additional material see Containers 15-18*, 1951, “Geologic History of Sea Water”
	1949
	Apr. 8, “Formation of the Earth's Atmosphere,” Historical Geophysics Seminar, Carnegie Institution of Washington, Washington, D.C.

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	Apr. 13, "Possible Mechanism for Continuous Supply of Volatiles at the Earth's Surface," Geological Society of Washington, Washington, D.C
	Dec. 13, "Sea-water and Atmosphere through the Past: A Problem in General Geology," Geological Conference, Harvard University, Cambridge, Mass.
	1950
	Jan., "Lines of Evidence for Estimating Volume of Primitive Ocean," Unidentified group, Santa Fe, N. Mex.
	Mar. 28, "The Problem of Origin of the Atmosphere and Ocean," classroom lecture
	Oct. 12, "Geologic Evidence regarding the Science of the Earth's Hydrosphere and Atmosphere," National Academy of Sciences, Schenectady, N.Y.
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	Nov. 16, "Geologic History of Sea Water," Geologic Society of America, Washington, D.C.
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	1952, "Seismic and Chemical Evidence on the Depth of Differentiation below the Continents," Conference on Nuclear Abundances of Elements, Yerkes Observatory, Williams Bay, Wisc.
	Agendas and correspondence
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	Feb. 11, "Possible Tectonic Effects of Fractional Melting and Crustal Spreading," Geological Society of Washington, Washington, D.C.
	Drafts
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	Apr. 11, "Hypothesis regarding the Origin of Continents and the Ocean," South Carolina Academy of Sciences, Columbia, S.C.
	May 5, "Tectonic Consequences of Crustal Growth by Selective Fusion," American Geophysical Union, Washington, D.C.
	June 9-11, "Geochemistry," Conference on Biochemistry, Paleoecology, and Evolution, Shelter Island, N.Y.
	Dec. 29, "The Origin of Ocean Water," American Association for the Advancement of Science," Boston, Mass.
	1954
	Oct. 14, "The Development of the Hydrosphere and Atmosphere," Crust of the Earth Symposium, Columbia University, New York, N.Y. *See also Container 19*, 1955, same title
	Dec. 16, lecture given at Scripps Oceanographic Institute, San Diego, Calif.
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	Oct. 20-22, "Role of Volatiles in Geological Process," Geophysical Laboratory, Washington, D.C.
	Lecture given at the California Institute of Technology, Pasadena, Calif.
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	July 15, "Partial Fusion of the Deep Interior as a Continuing Source of the Earth's Atmospheric Hydrosphere and Crust," Shell Laboratories, Houston, Tex.
	Nov. 5, "Role of Fluid Pressure in Mechanics of Overthrust Faulting," co-authored and presented with M. King Hubbert, Geological Society of America, Atlantic City, N.J. *See also Containers 19-22*, 1959, same title
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	1962, Dec. 4, "Geochemistry of Sediments," University of California, Los Angeles, Calif.
	1963, Nov. 20, "Possible Tectonic Significance of Transformation of Gypsum to Anhydride plus Water," Geological Society of America
	1965
	Apr. 19, "Mountain Building," University of California, Los Angeles, Calif.
	May 15, "Geology, Where, Wither?" University of Missouri, Columbia, Mo.
	Correspondence and printed materials
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	Jan. 16, re overthrust tectonics, Colorado Scientific Society, Denver, Colo.
	Apr. 3, "Waste Disposal and Earthquakes in the Denver area," Indiana University, Bloomington, Ind.
	Oct. 19-20, "The Geologic History of the Hydrosphere and Atmosphere," Western Michigan University, Kalamazoo, Mich.
	Oct. 28-29, "The Geologic History of the Hydrosphere and Atmosphere," University of Wisconsin, Madison, Wisc. *For additional material see same container*, 1967, Oct. 19-20
	1968
	May 13, re Denver earthquakes, Scripps Oceanographic Institute, San Diego, Calif.

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	Aug. 7, re Denver earthquakes, Lockheed Propulsion Company Branch, Scientific Research Co. of America, Redlands, Calif.
	Oct. 7, "Primitive Oceans and the Atmosphere," Cornell University, Ithaca, N.Y.
	1971, May 21, lecture on the history of science during the twentieth century
	1972, Aug. 25, "Mountain-making in Western Wyoming," International Geologic Congress, Montreal, Canada
	Undated, "Stream Piracy in Northeastern Wyoming,"
	Television appearances, "The Rains Came," episode of "Our World in Space," 1956
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