

**Edward Lindley Bowles Papers**  
**A Finding Aid to the Collection in the Library of Congress**



**Manuscript Division, Library of Congress**  
**Washington, D.C.**  
**2021**

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Additional search options available at: <https://hdl.loc.gov/loc.mss/eadmss.ms010308>

Prepared by Manuscript Division Staff

Finding aid encoded by Library of Congress Manuscript Division, 2010  
Revised 2020 February

## Collection Summary

**Title:** Edward Lindley Bowles Papers

**Inclusive Dates:** 1869-1990

**Bulk Dates:** 1920-1982

**ID No.:** MSS67993

**Creator:** Bowles, Edward Lindley, 1897-1990

**Extent:** 37,800 items

**Extent:** 108 containers plus 1 classified

**Extent:** 43.2 linear feet

**Language:** Collection material in English

**Location:** Manuscript Division, Library of Congress, Washington, D.C.

**LC Catalog record:** <https://lcn.loc.gov/mmm88067993>

**Summary:** Inventor, engineer and educator. Correspondence, memoranda, diaries, manuscripts, speeches, transcripts of recorded recollections, reports, minutes, subject files, notes, legal documents, printed material, photographs, and other papers relating primarily to Bowles's career as an engineer and consultant in private industry and in government, his association with research universities, and work relating to the securing and defense of patents.

## Selected Search Terms

The following terms have been used to index the description of this collection in the LC Catalog. They are grouped by name of person or organization, by subject or location, and by occupation and listed alphabetically.

### People

Adams, Charles F. (Charles Francis), 1866-1954--Correspondence.

Alexanderson, E. F. W. (Ernst Fredrik Werner), 1878-1975.

Archer, Gleason L., 1880-1966. Gleason L. Archer papers.

Armstrong, Edwin H. (Edwin Howard), 1890-1954.

Arnold, Henry Harley, 1886-1950--Correspondence.

Bowen, Harold Gardiner, 1883-1965--Correspondence.

Bowles, Edward Lindley, 1897-1990.

Bush, Vannevar, 1890-1974--Correspondence.

Bush, Vannevar, 1890-1974.

Cady, Walter G. (Walter Guyton), 1874-1974.

Calosi, Carlo Luigi, 1905-1997--Correspondence.

Calosi, Carlo Luigi, 1905-1997.

Campbell, George A. (George Ashley), 1870-1954. George A. Campbell papers.

Compton, K. T. (Karl Taylor), 1887-1954.

Draper, C. S. (Charles Stark)

Guillemin, Ernst A. (Ernst Adolph)

Hayes, Hammond Vinton, 1860-1947. Hammond Vinton Hayes papers.

King, Ernest Joseph, 1878-1956.

Loomis, Alfred L. (Alfred Lee), 1887-1975--Correspondence.

Morison, Samuel Eliot, 1887-1976.

Nicholson, Alexander McLean.

Pierce, George Washington, 1872-1956.

Rines, David, 1884-1978.

Stratton, Julius Adams, 1901-1994--Correspondence.

Watson-Watt, Robert Alexander, Sir, 1892-1973--Correspondence.

Watson-Watt, Robert Alexander, Sir, 1892-1973.

Yarnell, Harry E. (Harry Ervin), 1875-1959. Harry E. Yarnell papers.

### Organizations

Bell Telephone Company.

Bentley College.

Kodály Musical Training Institute.  
Massachusetts Institute of Technology.  
Massachusetts Institute of Technology. Round Hill Research Division.  
Massachusetts Institute of Technology. School of Industrial Management.  
Project Rand (United States. Air Force)  
Radio Corporation of America.  
Rand Corporation.  
Raytheon Company.  
Raytheon Company. Submarine Signal Division.  
Samson Electric Company.  
Sloan School of Management.  
Sperry Gyroscope Company.  
Stockton Profile Gauge Corporation.  
United Artists Corporation.  
United States. Council of National Defense. National Defense Research Committee.  
United States. Department of Defense.  
United States. Office of Scientific Research and Development. National Defense Research Committee.  
United States. Office of Scientific Research and Development. National Defense Research Committee. Radiation Laboratory.  
United States. War Department.  
White Consolidated Industries.  
Whitin Machine Works (Whitinsville, Mass.)

### **Subjects**

Anti-submarine warfare.  
Architecture, Domestic--Design and construction.  
Arts.  
Electrical engineering--Study and teaching.  
Electrical engineering.  
Foreign relations.  
Korean War, 1950-1953.  
Law.  
Military research.  
Military weapons.  
Nuclear energy.  
Nuclear weapons.  
Patents.  
Radar.  
Science.  
Strategy.  
Telephone systems.  
Television frequency allocation.  
Torpedoes.  
Travel.  
Universities and colleges--Massachusetts.  
World War, 1939-1945.

### **Places**

United States--Armed Forces--Organization.  
United States--Defenses.  
Westphalia (Mo.)--Social life and customs.

### **Occupations**

Educators.  
Engineers.

Inventors.

## Acquisition Information

The papers of Edward Lindley Bowles, inventor, engineer and educator, were given to the Library of Congress by him in 1972 and 1988-1989. An addition was received from a family member in 1992. A second addition was received from the Bentley University Library in 2015.

## Processing History

The collection was processed by Bradley E. Gernand with the assistance of Patrick M. Kerwin and John R. Monagle in 1993. The finding aid was revised in 2010. Material received in 2015 was processed by Rachel Telford in 2020.

## Transfers

Sound and video recordings have been transferred to the Library's Motion Picture, Broadcasting, and Recorded Sound Division where they are identified as part of these papers.

## Copyright Status

Copyright in the unpublished writings of Edward Lindley Bowles in these papers and in other collections of papers in the custody of the Library of Congress has been dedicated to the public.

## Access and Restrictions

Restrictions apply governing the use, photoduplication, or publication of items in this collection. Consult a reference librarian for information concerning these restrictions.

## Security Classified Documents

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

## Preferred Citation

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

## Biographical Note

Date	Event
1897, Dec. 9	Born, Westphalia, Mo.
1918	United States Army, Camp Zachary Taylor, Ky., and Fort Sheridan, Ill.
1920	B.S., Washington University, St. Louis, Mo.
1921	M.S., Massachusetts Institute of Technology, Cambridge, Mass.
1921-1922	Radio editor, <i>Boston Evening Transcript</i> , Boston, Mass.
1921-1925	Assistant instructor, Massachusetts Institute of Technology, Cambridge, Mass.
1922	Married Lois Wuerpel

1925-1927	Assistant professor, Massachusetts Institute of Technology, Cambridge, Mass.
1926-1937	Director, Round Hill Research Division, Massachusetts Institute of Technology, South Dartmouth, Mass.
1927-1937	Associate professor, Massachusetts Institute of Technology, Cambridge, Mass.
1937-1947	Professor, Massachusetts Institute of Technology, Cambridge, Mass.
1940-1942	Secretary, Microwave Committee, National Defense Research Committee, Cambridge, Mass.
1942-1947	Leave of absence, Massachusetts Institute of Technology Consultant to secretary of war
1943-1947	Consultant to commanding general, United States Army Air Forces
1945	D.Sc., Norwich University, Northfield, Vt. Distinguished Service Medal, United States Army Air Forces
1947-1957	Scientific consultant, United States Air Force
1947-1963	Consulting professor, Massachusetts Institute of Technology, Cambridge, Mass.
1947-1966	General consultant to president, Raytheon Co., Waltham, Mass.
1948	Honorary commander, civil division, Most Excellent Order of the British Empire Presidential Medal of Merit
1950-1952	Scientific warfare adviser, Weapons Systems Evaluation Group, Office of the Secretary of Defense
1951-1954	Consultant to secretary of the army
1955-1958	Chairman, Ad Hoc Advisory Committee on [television] Allocations, Senate Committee on Interstate and Foreign Commerce
1959-1964	Director, Scientific Development Corp., Watertown, Mass.
1963-	Professor emeritus, Massachusetts Institute of Technology, Cambridge, Mass.
1964-1967	Consultant and special assistant to president, Analex Corp., Boston, Mass.
1965-1966	Director, Jarrell-Ash Co., Waltham, Mass.
1965-1966	President, Whitin Machine Works, Whitinsville, Mass.
1965-1968	Consultant, director, Anderson-Nichols & Co., Boston, Mass.
1966-1977	Director, White Consolidated Industries, Cleveland, Ohio
1968-1970	Chairman of the board and president, Information Transfer Corp., Wellesley, Mass.
1969-1977	Director, Bentley College, Waltham, Mass.
1970-1974	Director, Kodály Musical Training Institute, Wellesley, Mass.
1981-	Trustee, Newton-Wellesley Hospital, Newton, Mass.
1990, Sept. 9-1990	Died, Weston, Mass.

## Scope and Content Note

The papers of Edward Lindley Bowles (1897-1990) span the years 1869-1990, with the bulk of the items concentrated in the period 1920-1982. Every aspect of Bowles's life is documented extensively by these papers except for the time during which he directed the Massachusetts Institute of Technology's (M.I.T.) research station in South Dartmouth, Massachusetts, for which there is relatively little record, and the last years of his life during which he suffered from Parkinson's disease.

Bowles was an inventor, educator, and consultant. He was associated with academic institutions, corporations, and government, often simultaneously. His scientific interests were focused, but the ways in which he manifested these interests were diverse. His papers, reflecting this diversity, are grouped into nine series: [Correspondence File](#), [Subject File](#), [Corporate File](#), [Government File](#), [University File](#), [Patent File](#), [Oral History File](#), [Writings File](#), [2020 Addition and Classified](#).

Incoming and outgoing correspondence of a general nature make up the [Correspondence File](#), including a reading file of outgoing material documenting more than two decades of Bowles's life.

The [Subject File](#) consists of a broad range of information not confined to any one institution, activity, or time in Bowles's life. There are files for Vannevar Bush and Carlo Luigi Calosi, each mentioned elsewhere in these papers, but each of whom Bowles knew in more than one institution or activity. There are also files regarding the Italian magnetic torpedo (Siluro Italiano Calosi) of World War II, Samuel Eliot Morison, David Rines, and Sir Robert Alexander Watson-Watt. Also,

these files contain papers of Gleason Leonard Archer, president of Suffolk University; George A. Campbell, a prominent early inventor in telephone communications; Hammond Vinton Hayes, former chief engineer of American Telephone and Telegraph Company; and Admiral Harry E. Yarnell's activities during World War II.

Bowles's ties to the corporate world began while he was a student at M.I.T. and became extensive after World War II, when he became general consultant to the president of Raytheon Company and president of Whitin Machine Works. He also served as consultant to or on the boards of directors of other firms. The [Corporate File](#) holds material concerning all such interests, but the documentation concerning Raytheon and Whitin is the most extensive. Principal correspondents in the Raytheon papers include Charles F. Adams (1866-1954), and Calosi. The principal subjects include direction and governance of the company, its research aims, and the Submarine Signal Division. There are many handwritten notes from Adams, who was president of Raytheon during Bowles's tenure. Whitin Machine Works was purchased by White Consolidated Industries, to whose board of directors Bowles was then appointed. The Whitin papers document the end of Whitin as an independent company and the affairs of White from Bowles's perspective on the governing board, as well as the affairs of subsidiaries White Motor Company, J.D. Ferry Company, and American Type Founders Company.

Bowles served the federal government in numerous capacities, most notably as consultant to the War Department during World War II, scientific warfare advisor to the secretary of war during the Korean conflict, and as chair of a United States Senate ad hoc advisory committee on television frequency allocations. Additionally, he served on the National Defense Research Committee, or NDRC (later part of the Office of Scientific Research and Development, or OSRD), and on a congressional ad hoc committee on reforming the patent system. Papers regarding all of these ventures are found in the [Government File](#). Bowles's work in the War Department during World War II is well represented and features correspondence with Henry Harley Arnold, Harold Gardner Bowen, Vannevar Bush, Alfred L. Loomis, and Watson-Watt concerning the development and deployment of radar, the United States Air Force's Project RAND and its evolution into Rand Corporation, antisubmarine warfare, and the temperament and tactics of Ernest Joseph King, as well as scientific research efforts in general. The armed forces retained Bowles's services through the late 1950s, and correspondence and reports reflect his concern for battle effectiveness, prevailing military strategies, research methodology, unification of the armed forces, and weapons development.

The [University File](#) documents Bowles's associations with Washington University and M.I.T., and two institutions he served as director, Bentley College and Kodály Musical Training Institute. M.I.T.'s development is reflected in correspondence with Julius Adams Stratton and other contemporaries. Files concern M.I.T.'s Round Hill research division and the Edward H. R. Green estate on which it was located, electrical engineering laboratory and courses, Sloan School of Industrial Management, the NDRC radiation lab, and Vannevar Bush, K. T. Compton, C. S. Draper, and Ernst A. Guillemin.

The [Patent File](#) documents Bowles's activities as a private consultant for companies and individuals securing or defending patents, including the Radio Corporation of America, Samson Electric Company, Sperry Gyroscope Company, Stockton Profile Gauge Corporation, United Artists Corporation, and Ernst Fredrik Werner Alexanderson, Edwin H. Armstrong, Walter G. Cady, Alexander McLean Nicholson, and George Washington Pierce. Correspondence in this file contains information regarding patent applications and research in general. A companion subseries contains Bowles applications and assignments. Interferences, or challenges to applications, are filed as part of the contested applications.

The [Oral History File](#) consists of transcripts of Bowles's recollections. These recollections were recorded between 1979 and 1984 and primarily concern his years in Westphalia, Missouri, M.I.T., Bell Telephone Company and the development of telephone communication, World War II, Henry Harley Arnold, Vannevar Bush, Henry L. Stimson, NDRC, OSRD, and Project RAND.

The [Writings File](#) consists of articles, newspaper columns, and speeches by Bowles concerning various subjects.

The [2020 Addition](#) consists of a subject file covering a broad range of information pertaining to Bowles's personal and professional interests, including atomic material, travel, foreign relations, construction and design, arts, science, and the law.

## Arrangement of the Papers

The collection is arranged in ten series:

- [Correspondence File, 1942-1988](#)

- Subject File, 1869-1990
- Corporate File, 1920-1987
- Government File, 1930-1988
- University File, 1918-1988
- Patent File, 1872-1989
- Oral History File, 1979-1984
- Writings File, 1922-1966
- 2020 Addition, 1901-1989
- Classified

## Description of Series

Container	Series
BOX 1-4	<p><b><u>Correspondence File, 1942-1988</u></b></p> <p>General correspondence and a reading file of outgoing correspondence. Arranged chronologically.</p>
BOX 5-16	<p><b><u>Subject File, 1869-1990</u></b></p> <p>Correspondence, legal documents, manuscripts, newspaper clippings, notes, photographs, publications, reports, speeches, and other papers. Arranged alphabetically by subject or type of material.</p>
BOX 17-27	<p><b><u>Corporate File, 1920-1987</u></b></p> <p>Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, photographs, and reports regarding the numerous companies in which Bowles held a financial interest or for which he consulted. Arranged alphabetically by corporate title and thereunder by type of material.</p>
BOX 27-48	<p><b><u>Government File, 1930-1988</u></b></p> <p>Awards and commendations, correspondence, diaries, memoranda, minutes of meetings, notes, photographs, reports, and research proposals regarding the agencies, committees, and departments for which Bowles consulted. Arranged alphabetically by agency or organization and thereunder by type of material.</p>
BOX 49-63	<p><b><u>University File, 1918-1988</u></b></p> <p>Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, publications, reports, subject files, and teaching notes regarding the academic institutions with which Bowles was affiliated as a student, instructor, or as a director. Arranged alphabetically by institutional name and thereunder by type of material.</p>
BOX 64-84	<p><b><u>Patent File, 1872-1989</u></b></p> <p>Correspondence, court documents, and miscellaneous material concerning patents and inventions and the applications and assignments of patents entered by Bowles and others. Arranged in the following groupings: applications, assignments, consultantships, general correspondence, and miscellany, and thereunder alphabetically by corporate or personal name, subject, or type of material.</p>
BOX 84-90	<p><b><u>Oral History File, 1979-1984</u></b></p> <p>Transcripts of recorded recollections by Bowles. Arranged as numbered transcripts, in two separate series, and miscellaneous, unrelated transcripts. Transcript numbers are preceded by the letters W, T, or J, bearing no relation to the numbering, which is sequential.</p>
BOX 90-92	<p><b><u>Writings File, 1922-1966</u></b></p> <p>Articles, papers, and a report by Bowles. Arranged by format and thereunder chronologically.</p>
BOX 93-108	<p><b><u>2020 Addition, 1901-1989</u></b></p> <p>Clippings, reports, printed matter, and other material. Arranged alphabetically by topic or type of material.</p>



BOX CL 1

Classified, 1941-1963

Correspondence, notes, reports, and miscellany.

Arranged and described according to the series and folders from which the material was removed.

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<b>BOX 5-16</b>	<b>Subject File, 1869-1990</b> Correspondence, legal documents, manuscripts, newspaper clippings, notes, photographs, publications, reports, speeches, and other papers. Arranged alphabetically by subject or type of material.
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BOX 10	Record, 1902 (2 folders)
BOX 11	Record, 1902 (2 folders)
	Pupin, Michael Idvorsky, Nos. 519346-1561278
BOX 12	Cerow, Gordon D., 1944-1949 Cosmos Club, Washington, D.C., 1942-1966 Currency and coins, 1928-1944 Curtis, Edward P., 1956 Dreher, Carl, 1959-1962 Ellyard, David, 1983 Gibson, Tom L., 1950-1955, 1963 Guns, 1969 Hale, Mary Margaret Griffith, 1968-1978 Hargrove, Thomas, 1949-1951 Hayes, Hammond Vinton Biographical information, undated Career at American Telephone and Telegraph Co., 1907, undated Correspondence From Bowles to Hayes, 1922-1970, undated From Hayes, 1895-1946 Last will and testament and estate, 1946-circa 1948 Notes by Bowles, 1947, undated Patents, 1888-1900 Speeches, 1914, undated Writings About Hayes, 1885-1920

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	Institute of Radio Engineers, 1947-1961
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	Green, Murray, 1966-1971
	(2 folders)
	Norberg, Arthur L., 1977-1982
	(2 folders)
	Pang, Alex, 1986
	Romanowski, Roslyn Rachel, 1982
	Thompson and Harris, Signal Corps Historical Division, Army Air Corps, 1958
	Investments, 1929-1954
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	Necrologies, 1940-1978
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<b>BOX 17-27</b>	<b>Corporate File, 1920-1987</b> Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries, photographs, and reports regarding the numerous companies in which Bowles held a financial interest or for which he consulted. Arranged alphabetically by corporate title and thereunder by type of material.
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BOX 43	Sept. 1945-Aug. 1946 (6 folders)
BOX 44	Oct. 1946-May 1953, undated (8 folders)
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## Government File, 1930-1988

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Notes, undated  
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1950-1958, undated
- BOX 48** Radiation Laboratory, 1941-1945  
Reports, Nov. 1940-Aug. 1944, undated  
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Research proposals, 1940-1942
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Correspondence, legal documents, memoranda, minutes of meetings, notes, office diaries,  
publications, reports, subject files, and teaching notes regarding the academic institutions  
with which Bowles was affiliated as a student, instructor, or as a director.  
Arranged alphabetically by institutional name and thereunder by type of material.
- BOX 49** Bentley College, Waltham, Mass.  
Correspondence, May 1957-Apr. 1987  
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