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# Josiah Willard Gibbs Papers

GEN MSS 1175



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October 2014

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## Collection Overview

**REPOSITORY:** Beinecke Rare Book and Manuscript Library  
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(203) 432-2977  
beinecke.library@yale.edu  
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**CALL NUMBER:** GEN MSS 1175

**CREATOR:** Gibbs, J. Willard (Josiah Willard), 1839-1903

**TITLE:** Josiah Willard Gibbs papers

**DATES:** 1811-1947

**BULK DATES:** 1863-1903

**PHYSICAL DESCRIPTION:** 11.09 linear feet (25 boxes)

**LANGUAGE:** English

**SUMMARY:** The collection consists of the papers of Josiah Willard Gibbs (1839-1903), which include correspondence, scientific papers, lecture notes taken by one of Gibbs' students, photographs, scientific illustrations, and honors and awards, as well as correspondence of his father, J. Willard Gibbs (1790-1861).

**ONLINE FINDING AID:** To cite or bookmark this finding aid, please use the following link: <https://hdl.handle.net/10079/fa/beinecke.jwgibbsbein>

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## Requesting Instructions

To request items from this collection for use in the Beinecke Library reading room, please use the request links in the HTML version of this finding aid, available at <https://hdl.handle.net/10079/fa/beinecke.jwgibbsbein>.

To order reproductions from this collection, please send an email with the call number, box number(s), and folder number(s) to [beinecke.images@yale.edu](mailto:beinecke.images@yale.edu).

Key to the container abbreviations used in the PDF finding aid:

b.      box  
f.      folder

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## Administrative Information

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### Immediate Source of Acquisition

The Josiah Willard Gibbs Papers are almost entirely the bequest of Addison Van Name, 1922. A few items were donated to Beinecke Library by Theodora Van Name Palmer in 1961.

## Conditions Governing Access

The materials are open for research.

This collection may be housed off-site at Yale's Library Shelving Facility (LSF). To determine if all or part of this collection is housed off-site please check the library's online catalog, Orbis; material for which the location is given as "LSF" must be requested 36 hours in advance. Please consult with Beinecke Access Services for more information.

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## Conditions Governing Use

The Josiah Willard Gibbs Papers are the physical property of the Beinecke Rare Book and Manuscript Library, Yale University. Literary rights, including copyright, belong to the authors or their legal heirs and assigns. For further information, consult the appropriate curator.

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## Preferred Citation

Josiah Willard Gibbs Papers. General Collection, Beinecke Rare Book and Manuscript Library, Yale University.

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## Processing Information

Collections are processed to a variety of levels, depending on the work necessary to make them usable, their perceived research value, the availability of staff, competing priorities, and whether or not further accruals are expected. The library attempts to provide a basic level of preservation and access for all collections, and does more extensive processing of higher priority collections as time and resources permit.

This finding aid was produced in 2014 from a previously existing card set in the Manuscripts Catalog. All pertinent bibliographical information has been retained.

Former call number: MS Vault Gibbs.

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## Josiah Willard Gibbs (1839-1903)

Josiah Willard Gibbs, mathematician and physicist, was born in New Haven on February 11, 1839, the son of Josiah Willard Gibbs, professor of sacred literature at Yale, and Mary Anna Van Cleve. He received a B.A. from Yale in 1858, an M.A. in 1861, and a Ph.D. in 1863. After serving as tutor in Latin (1863-65) and natural philosophy (1865-66), Gibbs went to Europe to study for three years. He returned to New Haven in 1869 and was appointed professor of mathematical physics at Yale in 1871, a position he held until his death.

Best known for developing the theory of thermodynamics, Gibbs wrote a number of extremely important and influential scientific works, the most significant being "Graphical Methods in the Thermodynamics of Fluids" (1873), "A Method of Geometrical Representation of the Thermodynamic Properties of Substances by Means of Surfaces" (1873), "On the Equilibrium of Heterogeneous Substances" (1876, 1878), "Electrochemical Thermodynamics" (1886, 1888), and *Elementary Principles in Statistical Mechanics* (1902).

He lived at the home of his sister and brother-in-law, Julia Gibbs and Addison Van Name, and died unmarried in New Haven on April 28, 1903.

For additional biographical information, see the *Dictionary of American Biography*, IV, pp. 248-51; Muriel Rukeyser, *Willard Gibbs* (1942), and Lynde Phelps Wheeler, *Josiah Willard Gibbs, the History of a Great Mind* (1951).

## Scope and Contents

The collection consists of the papers of Josiah Willard Gibbs (1839-1903), which include correspondence, scientific papers, lecture notes taken by one of Gibbs' students, photographs, scientific illustrations, and honors and awards, as well as correspondence of his father, J. Willard Gibbs (1790-1861). Series I., Josiah Willard Gibbs Correspondence, consists almost entirely of professional and scientific correspondence. Major correspondents include Wilder Dwight Bancroft; Hugo Buchholz; Franklin Bowditch Dexter; Timothy Dwight; Smith B. Goodenow; Wilhelm Ostwald; Karl Planck; and Sir Joseph Thomson. Series II., Notebooks and Scientific Papers, includes documentation of Gibbs' work in vector analysis of orbits; statistical mechanics; and electromechanics. Series III., Class Notes by George P. Starkweather, contains lecture notes taken by Starkweather on subjects including electricity and magnetism; thermodynamics; the electromagnetic theory of light; and vector applications. Series IV., Portraits and Illustrations, contains portraits of J. Willard and of Josiah Willard Gibbs, among other subjects. Series V., Correspondence of J. Willard Gibbs, contains personal and professional correspondence of Josiah Willard Gibbs' father, a theologian and Yale professor. Correspondents include William Henry Beecher; Elijah Coleman Bridgeman; George Edward Day; William Allen Macy; and Benjamin Silliman.

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## Arrangement

Organized into five series: I. Josiah Willard Gibbs Correspondence, 1876-1915; II. Josiah Willard Gibbs Notebooks, Scientific Papers and Personal Papers, 1863-1947; III. Lecture Notes by George P. Starkweather, 1892-1896; IV. Photographs and Illustrations, 1860s; V. Letters by and to J. Willard Gibbs (1790-1861), 1811-1860.

## Collection Contents

### Series I: Josiah Willard Gibbs (1839-1903) Correspondence, 1876–1915

1.04 linear feet (3 boxes)

Organized into three subseries: Letters by Gibbs; Letters to Gibbs, and Collected Correspondence and Related Papers

#### Letters by Gibbs

b. 1, f. 1	Autograph letter (draft) to Wilder D. Bancroft on the equations of electric motion. [New Haven]. 1 Accompanied by a manuscript copy of the letter as sent, in an unidentified hand.	1899 May
b. 1, f. 2	4 autograph letters, signed, and 1 autograph letter (draft) to Carl Barus. New Haven.	1897-1900
b. 1, f. 3	Autograph letter (draft) to George F. Becker. New Haven.	1886 September 13
b. 1, f. 4	Autograph letter, signed, (draft) to [Henry Pickering] Bowditch. [New Haven?]	1891 May 6
b. 1, f. 5	Autograph letter, signed, (draft) to Bernard Brunhes. New Haven.	1902 November 8
b. 1, f. 6	Autograph letter, signed, (draft) to Hugo Bucholz. New Haven.	1898 October
b. 1, f. 7	<a href="#">Autograph letter, signed, (draft) to Henri Louis Le Chatelier. New Haven.</a>	1899 October 28
b. 1, f. 8	Autograph letter, signed, (draft) to Josiah Parsons Cooke. New Haven.	1889 June 10
b. 1, f. 9	Autograph letter, signed, and autograph letter (drafts) to Thomas Craig. New Haven.	1888 July 13 and August 14
b. 1, f. 10	<a href="#">Autograph letter, signed, (draft) to [Pierre Maurice Maire Duhem]. New Haven.</a>	1887 February 2
b. 1, f. 11	Autograph letter, signed, (draft) to Thomas S. Fiske. New Haven.	1891 February 6
b. 1, f. 12	4 autograph letters, signed, to D. C. Gilman, president of Johns Hopkins University, concerning a projected visit to the university as a lecturer. New Haven.	1879 May 17 and June 5, 1880 March 30 and April 29
b. 1, f. 13	Autograph letter (draft) to B. A. Gould. [New Haven].	1889 September 23
b. 1, f. 14	Autograph letter, signed, (draft) to Hermann Ernst Grassman. New Haven.	1887 February 2
b. 1, f. 15	<a href="#">Autograph letter (draft) to William Thomson, Lord Kelvin. New Haven.</a>	1902 September 26
b. 1, f. 16	Autograph letter (draft) to [Samuel Pierpont] Langley. New Haven.	1894 May 30

Letters by Gibbs (continued)

b. 1, f. 17	3 autograph letters, signed, (drafts) to Oliver J. Lodge, secretary of the Electrolysis Committee of the British Association for the Advancement of Science. New Haven.	1887 January 8 and November [21], 1888 March 14
b. 1, f. 18	Autograph letter, signed, (draft) to Joseph Lovering. New Haven.	1881 January 5
b. 1, f. 19	Autograph letter (draft) to Alexander McAuley. [New Haven?].	1892 January 21
b. 1, f. 20	5 autograph letters, signed, (drafts) to Wilhelm Ostwald. New Haven.	1887-1891
b. 1, f. 21	Positive photostats of 2 letters and negative photostats of 4 letters to Wilhelm Ostwald, University of Leipzig, Germany. New Haven and Goshen, Massachusetts.  Accompanied by a photostat of a page from the Zeitschrift fur Physikalische Chemie, vol. 43 (1903) and a manuscript transcription of the letters made by Fraulein Grete Ostwald.  The original letters are preserved in the Wilhem Ostwald Archive, Grossbothen, Saxony.	1888-1896
b. 1, f. 22	Autograph letter (draft) to Charles Santiago Sanders Peirce. New Haven.	1881 December 1
b. 1, f. 23	Autograph letter (draft) to [Victor] Schlegel. [New Haven?]	1888 August 1
b. 1, f. 24	<a href="#">Autograph letter, signed, (draft) to Joseph Ellis Trevor. New Haven.</a>	1899 March 6
b. 1, f. 25	3 autograph letters, signed, (drafts) to Messrs. Veit & Comp. New Haven.	1889 January 17, February 16, and March 20

Letters to Gibbs

b. 2, f. 26	Abbe, Cleveland - 1 autograph letter, signed, and 3 typed letters, signed to Josiah Willard Gibbs. Washington.	1885 Spetember 28, 1893 May 6, 1902 April 10 and 14
b. 2, f. 27	Abraham, Max (1875-1922) - autograph letter, signed to Josiah Willard Gibbs. Berlin. In German.	1899 November 30
b. 2, f. 28	Aitken, John (1839-1919) - 2 autograph letters, signed to Josiah Willard Gibbs. Selkirk.	1876 December 15, 1877 January 24
b. 2, f. 29	Bakhuis Roozeboom, Hendrik Willem (1854-1907) - Autograph note, signed to [Josiah Willard Gibbs]. Amsterdam.	1902 April 3
b. 2, f. 30	Ball, Sir Robert Stawell (1840-1913) - Typed letter, signed to Josiah Willard Gibbs. Cambridge, England.	1902 March 29
b. 2, f. 31	<a href="#">Bancroft, Wilder Dwight (1867-) - 5 autograph letters, signed to Josiah Willard Gibbs. Ithaca, New York.</a>	1898 January 13, 1899 March 18 and May 20 and June 4 and July 4
b. 2, f. 32	Barth, Johannes A. - Copy of an autograph letter, signed, to Scribners.	1902 July 10

Letters to Gibbs (continued)

b. 2, f. 33	Baynes, Robert Edward (1849-1921) - Autograph letter, signed to Josiah Willard Gibbs. Oxford.	1879 January 27
b. 2, f. 34	Becker, George Ferdinand (1847-1919) - Autograph letter, signed to Josiah Willard Gibbs. Newport, Rhode Island.	1886 August 18
b. 2, f. 35	Bentze, Frederick - Copy of an autograph letter, signed, written in Gibbs' hand, to Josiah Willard Gibbs, concerning the translation of Vector Analysis into German. Austria.	1903 January 3
b. 2, f. 36	Besant, William Henry (1828-1917) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, England.	1885 August 8
b. 2, f. 37	<a href="#">Boltzmann, Ludwig (1844-1906) - Letter, signed, partially in autograph, to [Josiah Willard Gibbs]. Munchen.</a>	1892 May 12
b. 2, f. 38	Bosscha, Johannes (1831-1911) - Autograph letter, signed, to Josiah Willard Gibbs. Haarlem.	1902 April 3
b. 2, f. 39	Bowditch, Henry Pickering (1840-1911) - 2 autograph letters, signed, to Josiah Willard Gibbs. Boston.	1891 May 3 and May 9
b. 2, f. 40	<a href="#">Brunhes, Bernard - 2 autograph letters, signed, to Josiah Willard Gibbs. France.</a> French	1902 October 26 and November 14
b. 2, f. 41	Bucherer, Alfred Heinrich - Autograph letter, signed, to Josiah Willard Gibbs. Bonn.	1902 January 30
b. 2, f. 42	Buchholz, Hugo (1866- ) - 2 autograph letters, signed, to Josiah Willard Gibbs. Jena and Gottingen.	1898 August 1 and September 16
b. 2, f. 43	Buchholz, Hugo (1895- ) - 2 autograph letters, signed, and 1 postcard to Ralph Gibbs Van Name, concerning the publication of The Scientific Papers of J. Willard Gibbs. Halle and Jena.	1906 December 8, 13 and 28
b. 2, f. 44	<a href="#">Bumstead, Henry Andrews (1870-1920) - Typed letter, signed, to Edwin Bidwell Wilson, regarding Gibbs' interest in statistical mechanics. New Haven.</a>	1915 December 22
b. 2, f. 45	Burbury, Samuel Hawksley (1830-1911) - 8 autograph letters, signed, to Josiah Willard Gibbs. London.	1902-1903
b. 2, f. 46	Byerly, William Elwood (1849-1935) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, Massachusetts.	1881 November 26
b. 2, f. 47	Chamberlain, Joshua Lawrence (1828-1914) - Autograph letter, signed, to Josiah Willard Gibbs. Brunswick, Maine.	1873 November 12
b. 2, f. 48	Chambers, Charles (1834-1896) - Autograph letter, signed, to Josiah Willard Gibbs. Bombay.	1880 January 31
b. 2, f. 49	Le Chatelier, Henri Louis (1850-1936) - Typed letter, signed, to [Josiah Willard Gibbs]. Paris. French	1902 April 29



Letters to Gibbs (continued)

b. 2, f. 50	Le Chatelier, Henri Louis (1850-1936) - Typed letter, signed, to Ralph Gibbs Van Name, concerning the publication of The Scientific Papers of J. Willard Gibbs. Paris. French	1907 January 31
b. 2, f. 51	Cooke, Josiah Parsons (1827-1894) - 2 autograph letters, signed, to Josiah Willard Gibbs. Cambridge, Massachusetts.	1889 June 5 and 13
b. 2, f. 52	Couturat, Louis (1868-1914) - Autograph letter, signed, to Josiah Willard Gibbs. Paris. French	1899 November 30
b. 2, f. 53	Craig, Thomas (1855-1900) - 3 autograph letters, signed, to Josiah Willard Gibbs. Baltimore.	1882 May 24, 1883 April 26, 1888 August 6
b. 2, f. 54	Dana, James Dwight (1813-1895) - Autograph letter, signed, to Josiah Willard Gibbs. New Haven.	1880 April 26
b. 2, f. 55	Darwin, Sir George Howard (1845-1912) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge.	1902 April 18
b. 2, f. 56	Dewar, Sir James (1842-1923) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge.	1883 March 23
b. 2, f. 57	Dexter, Franklin Bowditch (1842-1920) - 3 autograph letters, signed, to Josiah Willard Gibbs, concerning his salary as professor at Yale. New Haven.	1880 April 28 and June 29, 1893 November 15
b. 2, f. 58	<a href="#">Duhem, Pierre Maurice Maire (1861-1916) - 4 autograph letters, signed, to [Josiah Willard Gibbs]. Paris.</a> French	1887 January 10 and February 16, 1900 May 29, 1902 April 9
b. 2, f. 59	<a href="#">Dwight, Timothy (1828-1916) - 2 autograph letters, signed, to Josiah Willard Gibbs, concerning his salary as professor at Yale. New Haven.</a>	1893 November 15, 1896 January 25
b. 2, f. 60	<a href="#">Eddy, Henry Turner (1844- ) - Autograph letter, signed, to Josiah Willard Gibbs. Cincinnati.</a>  Enclosed is a reprint of Eddy's paper, "Radiant heat an exception to the second law of thermodynamics."	1883 March 13
b. 2, f. 61	Engel, Friedrich (1861- ) - Autograph letter, signed, to [Josiah Willard Gibbs]. Leipzig. German	1893 January 8
b. 2, f. 62	Engelmann, Wilhelm (1808-1878) - 2 autograph letters, signed, to Josiah Willard Gibbs. Leipzig. German	1892 March 10, 1895 December 23
b. 2, f. 63	Foppl, A. - Autograph letter, signed, to Josiah Willard Gibbs. Munchen. German	1902 January 6
b. 2, f. 64	<a href="#">Freeman, Alexander - 8 autograph letters, signed, to Josiah Willard Gibbs.</a>	1875-1890

Letters to Gibbs (continued)

b. 2, f. 65	Gibbs, Wolcott (1822-1908) - 3 autograph letters, signed, to Josiah Willard Gibbs. Newport, [Rhode Island?].	1881 December 4, 1897 June 15, 1902 April 19
b. 2, f. 66	Gilman, Daniel Coit (1831-1908) - 4 autograph letters, signed, to Josiah Willard Gibbs. Baltimore.	1879 May 13, 29, and June 13, 1880 April 8
b. 2, f. 67	Glazebrook, R. T. - Invitation to a meeting of the British Association for the Advancement of Science, to J. Willard Gibbs, with a manuscript note.	1893 June 5
b. 2, f. 68	Goodenow, Smith B. - 18 autograph letters, signed, to Josiah Willard Gibbs, concerning a theory of Goodenow's on the velocity of sound. Battle Creek, Iowa. Accompanied by 2 drafts of Gibbs' reply to the letter of 1888 July 4.	1888-1889
b. 2, f. 69	Gould, Alice Bache - Autograph letter, signed, to Josiah Willard Gibbs. [Chicago].	1897 March 15
b. 2, f. 70	Gould, Benjamin Apthorp, Jr. (1824-1896) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, [Massachusetts].	1889 October 16
b. 2, f. 71	Grassman, Hermann Ernst (1857- ) - 2 autograph letters, signed, and 3 autograph postcards, signed, to Josiah Willard Gibbs. Halle. German	1888-1893
b. 2, f. 72	Griffiths, Ernest Howard (1851-1932) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, [England].	1895 December 18
b. 2, f. 73	Hagen, John George (1847- ) - 2 autograph letters, signed, to Josiah Willard Gibbs. Washington.	1893 March 16 and June 20
b. 2, f. 74	Hall, Asaph (1829-1907) - Autograph letter, signed, to Josiah Willard Gibbs.	1886 September 2
b. 2, f. 75	Heaviside, Oliver (1850-1925) - 2 autograph letters, signed, to Josiah Willard Gibbs. London and Paignton, Devon.	1888 July 3, 1894 April 6
b. 2, f. 76	Herman et Cie (publishers) - Postcard to Josiah Willard Gibbs concerning a reprint of his "On the equilibrium of heterogeneous substances." Paris. Accompanied by a draft of Gibbs' reply, 1898 March 10.	1898 February 6
b. 2, f. 77	Herman et Cie (publishers) - Typed letter, signed, to [Addison?] Van Name, concerning a reprint of J. Willard Gibbs' Statistical Mechanics. Paris.	1912 November 18
b. 2, f. 78	Hertz, Heinrich Rudolph (1857-1894) - Autograph letter, signed, to Josiah Willard Gibbs.	1889 March 3
b. 2, f. 79	Hill, Thomas (1818-1891) - 2 autograph letters, signed, to Josiah Willard Gibbs. Portland, Maine.	1890 January 7 and February 17
b. 2, f. 80	Kamerlingh Onnes, Heike (1853-1926) - 2 autograph letters, signed, to [Josiah Willard] Gibbs. Leiden.	1900 May 8, 1901 June 19
b. 2, f. 81	<a href="#">Kelvin, William Thomson, 1st baron (1824-1907) - 2 autograph letters, signed, and 1 typed letter, signed, to Josiah Willard Gibbs. [London] and Ayrshire.</a>	1901 July 29, 1902 April 11 and October 14

Letters to Gibbs (continued)

b. 2, f. 82	Klein, Felix (1849-1925) - 3 autograph letters, signed, to Josiah Willard Gibbs. Göttingen and Evanston, Illinois. German	1892 September 22, 1893 September 17, 1895 June 27
b. 2, f. 83	Knott, Cargill Gilston (1856-1922) - Autograph letter, signed, to Josiah Willard Gibbs. Edinburgh.	1893 April 26
b. 2, f. 84	Kronecker, Leopold (1823-1891) - Autograph letter, signed, to [Josiah Willard Gibbs]. Berlin.	1891 June 2
b. 3, f. 85	Langley, Samuel Pierpont (1834-1906) - 1 autograph letter, signed, and 3 typed letters, signed, to Josiah Willard Gibbs. Allegheny, Pennsylvania and Washington.	1886 June 9, 1894 April 13 and June 9, 1895 January 25
b. 3, f. 86	Lodge, Sir Oliver Joseph (1851-1940) - Autograph postcard, signed, to Josiah Willard Gibbs. Liverpool.	1887 January 20
b. 3, f. 87	<a href="#">Lorentz, Hendrik Antoon (1853-1928) - Autograph postcard, signed, and autograph letter, signed, to Josiah Willard Gibbs. Leiden.</a>	1884 April 8, 1902 April 1
b. 3, f. 88	Loverling, Joseph (1813-1892) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, [Massachusetts].	1881 December 31
b. 3, f. 89	Macfarlane, Alexander (1851-1913) - 3 autograph letters, signed, to Josiah Willard Gibbs. South Bethlehem, Pennsylvania; Chatham, Ontario.	1899 February 22, 1901 June 18 and July 12
b. 3, f. 90	<a href="#">Massieu, Francois Jacques Dominique (1832-1896) - Autograph letter, signed, to Josiah Willard Gibbs. Rennes.</a> French	1878 October 9
b. 3, f. 91	McAulay, Alexander (1863-1931) - Autograph letter, signed, to Oliver Heaviside. Hobart, Tasmania.	1894 February 18
b. 3, f. 92	Meldola, Raphael (1849-1915) - Autograph letter, signed, to [Josiah Willard Gibbs]. Toronto.	1897 August 23
b. 3, f. 93	Mellor, Joseph William (1873-1938) - Autograph letter, signed, to Josiah Willard Gibbs. Newcastle-under-Lyme, Staffordshire.	1902 September 17
b. 3, f. 94	Meyerhoffer, Wilhelm (1864- ) - Autograph letter, signed, to Josiah Willard Gibbs. Wien. German	1893 June 23
b. 3, f. 95	<a href="#">Michelson, Albert Abraham (1852-1931) - 6 autograph letters, signed, to [Josiah Willard] Gibbs. Cleveland.</a>	1884-1890
b. 3, f. 96	Moore, Eliakim Hastings (1862-1932) - Autograph letter, signed, and typed letter, signed, to [Josiah Willard] Gibbs. Evanston, Illinois and [Chicago].	1890 January 27, 1902 June 21
b. 3, f. 97	Muir, M. M. Pattison - Autograph letter, signed, to J. Willard Gibbs. Cambridge, [England].	1880 February 14
b. 3, f. 98	Newcomb, Simon (1835-1909) - 2 autograph letters, signed, to [Josiah Willard] Gibbs. Washington.	1901 November 22, 1902 March 15

Letters to Gibbs (continued)

b. 3, f. 99	Newton, Hubert Anson (1830-1896) - Autograph letter, signed, to Josiah Willard Gibbs. Florence.	1880 May 31
b. 3, f. 100	Ostwald, Wilhelm (1853-1932) - 11 autograph letters, signed, and 1 autograph postcard, signed, to Josiah Willard Gibbs. Riga, Russland, and Leipzig. German	1887-1895
b. 3, f. 101	<a href="#">Peirce, Charles Santiago Sanders (1839-1914) - Autograph letter, signed, to [Josiah Willard Gibbs]. Baltimore.</a>	1881 [November 20]
b. 3, f. 102	Pierce, J. M. - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge, Massachusetts.	1884 March 10
b. 3, f. 103	Pirie, George (1843-1904) - 2 autograph letters, signed, to Josiah Willard Gibbs. Cambridge, England.	1878 January 16 and April 10
b. 3, f. 104	<a href="#">Planck, Karl Ernst Ludwig (1858-1947) - Autograph letter, signed, to [Josiah Willard Gibbs]. Berlin.</a> German	1902 March 29
b. 3, f. 105	Poincare, Henri (1854-1912) - Autograph note, signed, to [Josiah Willard Gibbs]. Paris. French	1901 April 29
b. 3, f. 106	Ramsay, William - 3 autograph letters, signed, to Josiah Willard Gibbs. Bristol, London.	[1884?], 1885 March 5, 1897 June 17
b. 3, f. 107	Rayleigh, Lord - 3 autograph letters, signed, one with typescript, to Josiah Willard Gibbs. Essex.	1892 June 5, [1901], 1902 March 3
b. 3, f. 108	Rood, Ogden Nicholas (1831-1902) - Autograph letter, signed, to [Josiah Willard] Gibbs. New York.	1893 October 8
b. 3, f. 109	Rowland, Henry Augustus (1848-1901) - 2 autograph letters, signed, and 1 letter, signed, to [Josiah Willard] Gibbs. Baltimore.	1879 March 3 and May 28, [1884?] July 29
b. 3, f. 110	Schlegel, Victor (1843-1908) - 2 autograph letters, signed, to [Josiah Willard Gibbs]. Hagen. German	1888 July 15, 1891 August 16
b. 3, f. 111	Stallo, John Bernard (1823-1900) - Autograph letter, signed, to Josiah Willard Gibbs. Cincinnati.	1884 July 30
b. 3, f. 112	Study, E. - Autograph letter, signed, to Josiah Willard Gibbs. Marburg. German	1889 July 30
b. 3, f. 113	Sylvester, James Joseph (1814-1897) - 2 autograph letters, signed, to Josiah Willard Gibbs. Baltimore.	1883 April 12, 1886 November 18
b. 3, f. 114	Taft, William H. - Autograph letter, signed, to H. A. Newton. Cincinnati.	1884 July 18
b. 3, f. 115	Thomson, Sir Joseph John (1856-1940) - 5 autograph letters, signed, to Josiah Willard Gibbs. Cambridge, [England].	1884-1902, no date

Letters to Gibbs (continued)

b. 3, f. 116	Todhunter, Isaac (1820-1884) - Autograph letter, signed, to Josiah Willard Gibbs. Cambridge.	1879 July 7
b. 3, f. 117	<a href="#">Trevor, Joseph Ellis (1864-1941) - 5 autograph letters, signed, and 2 typed letters, signed, to Josiah Willard Gibbs. Ithaca.</a>	1895-1899
b. 3, f. 118	Trobridge, John - 3 autograph letters, signed, to Josiah Willard Gibbs. Cambridge.	1880 June 9, 1881 January 5 and 13
b. 3, f. 119	Veit & Comp (publishers) - 2 letters to Josiah Willard Gibbs. Leipzig. German	1888 December 30, 1889 May 5
b. 3, f. 120	Vieweg, F. und sohn - Copy of an autograph letter, signed, to Josiah Willard Gibbs. German	1902 July 7
b. 3, f. 121	Waals, Johannes Diderik van der (1837-1923) - Autograph letter, signed, to Josiah Willard Gibbs. Amsterdam.	1898? June 20
b. 3, f. 122	Wald, Frantivek (1861-1930) - 2 autograph letters, signed, to [Josiah Willard Gibbs]. Kladno, Bohmen. German	1895 January 18 and December 7
b. 3, f. 123	Young, Charles Augustus (1834-1908) - Autograph letter, signed, to Josiah Willard Gibbs. Princeton.	1884 March 20
Collected correspondence and other papers		
b. 3, f. 124	Correspondence concerning proposed German translation of "Statistical Mechanics" (1902)	1902
b. 3, f. 125	Correspondence between Josiah Willard Gibbs and Longmans, Green & Co. concerning the reprint of Gibbs' thermodynamics papers, including contract.  The execution of the contract was interrupted by Gibbs' death, 1903 April 28. See also next folder.	1903
b. 3, f. 126	Final contract for "Scientific papers" and correspondence regarding the contract between Addison Van Name and Longmans, Green & Co.	1903-1906
b. 3, f. 127	Notes on Scientific Correspondence	1903-1952
b. 3, f. 128	Mailing Lists (recipients of Gibbs' published papers)	1876-1886
b. 3, f. 129	Miscellaneous notes by Josiah Willard Gibbs.	1888
b. 3, f. 130	Reviews of "Velocity of light in air..." and "Theoretische optik" by Josiah Willard Gibbs.	[1885?]

**Series II: Notebooks and Scientific Papers, 1855–1903***2.28 linear feet (13 boxes)*

Arranged in no particular order.

b. 4, f. 131	<a href="#">"On the Form of the Teeth of Wheels in Spur Gearing" - bound manuscript.</a> Bound in green cloth with gold lettering on spine: "Josiah Willard Gibbs, PH.D. Thesis, Yale College, 1863".	1863
b. 4, f. 132	Notes on electromagnetic theories of Ampere and Grassman	[1870s]
b. 4, f. 133	"Method of Computing an Orbit from Three Observations" - manuscript notebook of observations, calculations, etc.	undated
b. 4, f. 134	<a href="#">Varia - bound volume containing the manuscripts of Gibbs' solutions to the prize problems of 1855, 1856, and 1857, and a paper on "Unit of Length, etc." read before the Connecticut Academy of Arts and Sciences, 1866 March 21.</a> Bound in green cloth, with gold lettering on spine: "Josiah Willard Gibbs, Varia". Gift of Miss Theodora Van Name, 1925	1855-1866
b. 4, f. 135	Electricity - manuscript notebook. Berlin. Gift of Miss Theodora Van Name, 1925	1867 October
b. 4, f. 136	Electricity - manuscript notebook. Gift of Miss Theodora Van Name, 1925	undated
b. 4, f. 137	Electricity - manuscript notebook. Gift of Miss Theodora Van Name, 1925	undated
b. 5, f. 138	Turbine - autograph manuscript.	1866
b. 5, f. 139	Units and the Fundamental Equation of Theoretical Mechanics - autograph manuscript draft.	undated
b. 5, f. 140	Notes on Carmichael's calculus operation - autograph manuscript.	undated
b. 5, f. 141	Bibliography of Boltzmann on thermodynamics and statistical mechanics - autograph manuscript notes.	undated
b. 5, f. 142	Spherical Harmonies - autograph manuscript notes.	undated
b. 5, f. 143	Newton: autograph manuscript notes and newspaper clippings relating to Professor Hubert Anson Newton.	undated
b. 5, f. 144	Draft of a letter to Nature and other autograph manuscript notes.	undated
b. 5, f. 145	Thermodynamics Lecture Notes - autograph manuscript notes	1891-1900
b. 5, f. 146	Thermodynamics Lecture Notes - manuscript notebook of notes taken by a student.	1894-1895
b. 5, f. 147	<a href="#">Railroad Car Brakes - autograph manuscript of the nature and object of the brake; correspondence with Munn &amp; Co.; and U.S. Patent No. 53,971, with drawings.</a>	1865-1886
b. 5, f. 148	<a href="#">Steam Engine Governor - autograph manuscript notes.</a>	undated

b. 6, f. 149	On the Values of Potentials in Liquids for Substances Which Form but a Small Part of the Whole Mass - autograph manuscript notes.	undated
b. 6, f. 150	Electrolysis and Latent Differences - autograph manuscript notes.	1900, 1903
b. 6, f. 151	Electrolysis and Solubilities - autograph manuscript notes. Includes four of Gibbs' original folders, labelled as follows: Electrolysis (Bibliography); Electrolysis and solubilities; Solubilities and electrolysis; Similarity in thermodynamics.	undated
b. 6, f. 152-153	Verification of E. H. S. Equations, Van der Waals' Equations - autograph manuscript notes. <i>2 Folders</i>	1884
b. 6, f. 154	Multiple Algebra: Lecture notes - autograph manuscript notes.	1884-1885, 1889-1891, 1893-1894, 1901-1902
b. 6, f. 155	Multiple Algebra: Curvature, Quaternations, Applications to Ellipsoids - autograph manuscript notes.	undated
b. 6, f. 156	Multiple Algebra: Ausdehnungs-Lehre and Multiple Algebra, Tait's Quaternations, Quaternations and the Ausdehnungslehre, Notes for an A. A. A. S. address - autograph manuscript notes. Includes 2 autograph letters, signed, from E. H. Moore on multiple algebra subjects while Moore was studying with Kronecker in Berlin, 1885 December 21, 1886 July 23.	undated
b. 6, f. 157-158	Multiple Algebra Studies: Peircian analysis, Salmon's higher algebra, Freeman's problem, Extracanon, etc. - autograph manuscript notes. <i>2 Folders</i>	undated
b. 7, f. 159	Orbits - survey of Gibbs' papers on Orbits	undated
b. 7, f. 160	Orbits: Geometry of Ellipsoid - autograph manuscript notes.	1884-1885
b. 7, f. 161	Orbits - autograph manuscript notes.	1889-1890
b. 7, f. 162	Orbits - autograph manuscript notes.	1892-1893
b. 7, f. 163	Orbits: Elliptic Motion - autograph manuscript notes.	1884
b. 7, f. 164	Orbits - autograph manuscript notes.	1898-1899
b. 7, f. 165	Orbits: National Academy - autograph manuscript notes.	undated
b. 7, f. 166	Orbits: Astronomical Miscellany - autograph manuscript notes.	undated
b. 7, f. 167	Orbits: Theory of Elliptic Motion - autograph manuscript notes.	1882
b. 7, f. 168	Orbits: Method of 3 Distances with three additional terms - autograph manuscript notes.	undated
b. 7, f. 169	Orbits: W. Ames Ceres - autograph manuscript notes.	undated
b. 7, f. 170	Orbits: Elliptic Motion with Differentiation of Elements - autograph manuscript notes.	undated

b. 7, f. 171	Orbits: Rough Estimate of Perturbations - autograph manuscript notes.	undated
b. 7, f. 172	Orbits: First Stages in the Determination of Orbits - autograph manuscript notes.	undated
b. 7, f. 173	Orbits: 2 Additional Terms - autograph manuscript notes.	undated
b. 7, f. 174	Orbits: Parabolic Orbits Determined by Equation in 3 Distances - autograph manuscript notes.	undated
b. 7, f. 175	Orbits: Ceres III Hypo and Residuals, Ceres Theoria Motus - autograph manuscript notes.	undated
b. 7, f. 176	Orbits: Correction of Formulae - autograph manuscript notes.	undated
b. 7, f. 177	Orbits: Comet 1892a, Reference Formula and Derivations - autograph manuscript notes.	undated
b. 7, f. 178	Orbits: Parameter and Areas, Moore's Problem for Hyperbola's Elements - autograph manuscript notes.	undated
b. 7, f. 179	Orbits: Method of three distances - autograph manuscript notes.	1886
b. 7, f. 180	Orbits: Comets 1882 - autograph manuscript notes.	undated
b. 7, f. 181	Orbits: Perturbations - autograph manuscript notes.	undated
b. 7, f. 182	Orbits: Solution of Fundamental Equations - autograph manuscript notes.	undated
b. 7, f. 183	Orbits: Comet Klinkertues, Gould - autograph manuscript notes.	undated
b. 8, f. 184	Orbits: Ames on Ceres - autograph manuscript notes.	undated
b. 8, f. 185	Orbits: Swift's Comet - autograph manuscript notes.	undated
b. 8, f. 186	Orbits: Theory of Ellipses: Two Tangents, Calculations - autograph manuscript notes.	undated
b. 8, f. 187	Orbits: Fundamental Formula for Orbits - autograph manuscript notes.	undated
b. 8, f. 188	Orbits: Comet 1892a Elliptic Orbit - autograph manuscript notes.	undated
b. 8, f. 189	Orbits: Memior on Orbits - autograph manuscript notes.	undated
b. 8, f. 190	Orbits: Ellipse from 3 Positions, Heliometer observations - autograph manuscript notes.	undated
b. 8, f. 191	Orbits: Heliometer - autograph manuscript notes.	undated
b. 8, f. 192	Orbits: Residuals of Hyp. II - autograph manuscript notes.	undated
b. 8, f. 193	Orbits: Perturbations by Differences - autograph manuscript notes.	undated
b. 8, f. 194	Orbits: Swift's Comet, Memoir Ceres Correction - autograph manuscript notes.	undated
b. 8, f. 195	Orbits: Pallas Theoria Motus - autograph manuscript notes.	undated
b. 8, f. 196	Orbits: Theory of Improved Fundamental Equation in Orbits - autograph manuscript notes.	1889



b. 8, f. 197	Orbits: Determination of Orbits: Method of 3 Heliocentric Distances - autograph manuscript notes.	undated
b. 8, f. 198	Orbits: N1, N2, N3, Method of 3 Distances with One Additional Term - autograph manuscript notes.	undated
b. 8, f. 199	Orbits: Parabola: Search for Additional Terms in Fundamental Equations - autograph manuscript notes.	undated
b. 8, f. 200	Orbits: Calculations on Determination of Orbits - autograph manuscript notes.	undated
b. 8, f. 201	Orbits: Determination of Orbits - Formulae - autograph manuscript notes.	undated
b. 8, f. 202	Orbits: Parabolic Motion - autograph manuscript notes.	1891
b. 8, f. 203	Orbits: Comet 1892a - autograph manuscript notes.	undated
b. 8, f. 204	Orbits: Ceres: Control of Numbers in Memior - autograph manuscript notes.	undated
b. 8, f. 205	Orbits: Unidentified leaves - autograph manuscript notes.	undated
b. 9, f. 206	Electromagnetic Theory of Light - list of folders	undated
b. 9, f. 207-209	Electromagnetic Theory of Light - autograph manuscript notes <i>3 Folders</i>	1887
b. 10, f. 210	Vector Analysis - autograph manuscript notes for lectures.	1879-1902
b. 10, f. 211-214	Vector Analysis: Mimeographed course synopsis - autograph manuscript notes. <i>4 Folders</i>	undated
b. 10, f. 215-218	Electricity and Magnetism - autograph manuscript notes. <i>4 Folders</i>	1885-1900
b. 11, f. 219	Statistical Mechanics: autograph manuscript notes for book.	undated
b. 11, f. 220	Statistical Mechanics: Statistical Equilibrium cases - autograph manuscript notes for book	undated
b. 11, f. 221	Statistical Mechanics: Chapter VIII, Chapter XIV - autograph manuscript notes for book.	undated
b. 11, f. 222	Statistical Mechanics: Thermodynamics of Ether (Queries) - autograph manuscript notes.	undated
b. 11, f. 223	Statistical Mechanics: Equilibrium in Sub-continus - autograph manuscript notes.	1894
b. 11, f. 224	<a href="#">Statistical Mechanics: Examples of Intermolecular Action - autograph manuscript notes.</a>	undated
b. 11, f. 225	Statistical Mechanics: Statistical Mechanics Generalities - autograph manuscript notes.	undated
b. 11, f. 226	Statistical Mechanics: $V_q$ from $V$ when $N$ is Odd - autograph manuscript notes.	undated
b. 11, f. 227	Statistical Mechanics: $\Psi$ and $\Theta$ as Force Functions - autograph manuscript notes.	undated
b. 11, f. 228	Statistical Mechanics: Examples of Ideal Gases - autograph manuscript notes.	undated

b. 11, f. 229	Statistical Mechanics: Units and Zeros (Dimensions) - autograph manuscript notes.	undated
b. 11, f. 230	Statistical Mechanics: Micro: Notes on Microcanonical Distribution - autograph manuscript notes.	undated
b. 11, f. 231	Statistical Mechanics: Coexistent Phases and Unstable States - autograph manuscript notes.	undated
b. 11, f. 232	Statistical Mechanics: Chapter XII, Tendencies, etc. - autograph manuscript notes.	undated
b. 11, f. 233	Statistical Mechanics: Chapter XV, Systems of Molecules - autograph manuscript notes.	undated
b. 11, f. 234	Statistical Mechanics: Empty folder covers	undated
b. 11, f. 235	Statistical Mechanics: Miscellaneous loose sheets on various topics	undated
b. 11, f. 236	Statistical Mechanics: Canonical Averages - autograph manuscript notes.	undated
b. 11, f. 237	Statistical Mechanics: Molecular Mechanics and Thermodynamics - autograph manuscript notes.	undated
b. 11, f. 238	Statistical Mechanics: Chapter V (old) i.e. Residuum of V, VI, and VII - autograph manuscript notes.	undated
b. 11, f. 239	Statistical Mechanics: Chapter III - autograph manuscript notes for book.	undated
b. 11, f. 240	Statistical Mechanics: Chapter IV - autograph manuscript notes for book.	undated
b. 11, f. 241	Statistical Mechanics: Empty folder covers	undated
b. 11, f. 242	Statistical Mechanics: Loose sheets on various topics - autograph manuscript notes.	undated
b. 11, f. 243	Statistical Mechanics: Chapter V, Chapter XI: Maximum and Minimum Properties - autograph manuscript notes.	undated
b. 11, f. 244	Statistical Mechanics: unidentified leaf.	undated
b. 12, f. 245	Dynamics - autograph manuscript notes.	undated
b. 12, f. 246	Bibliographies - autograph manuscript notes.	1878
b. 12, f. 247	Multiple Algebra for Dynamics - autograph manuscript notes.	1896
b. 12, f. 248	Photostats of 2 autograph letters, signed, from Lynde Wheeler regarding Gibbs' Multiple Algebra for Dynamics	1957 November 11 and 22
b. 12, f. 249	The Last Unpublished Notes of J. Willard Gibbs - booklet by Edwin B. Wilson	1961
b. 12, f. 250	Lynde Wheeler's manuscript notes from Multiple Algebra for Dynamics.	1957
b. 12, f. 250a	Microfilm of "Gibbs's notes" requested by Lynde P. Wheeler from Yale University Library Rare Book Room	undated
b. 12, f. 251	Photostats of a portion of Gibbs' notes on Multiple Algebra for Dynamics.	undated

b. 12, f. 252	Rayleigh on Sound - autograph manuscript notes on J. W. S. Rayleigh's Theory of Sound.	undated
b. 12, f. 253	Abstract for "Konigsberger's Repertorium" - autograph manuscript notes.	1879
b. 13, f. 254-256	Elementary Principles in Statistical Mechanics - autograph manuscript notes. <i>3 Folders</i>	undated
b. 13, f. 257-259	Elementary Principles in Statistical Mechanics - proof sheets. <i>3 Folders</i>	undated
b. 13, f. 260	Unidentified scientific papers in autograph manuscript.	undated
b. 14, f. 261	List of Awards, Honors, Memberships, etc.	undated
b. 14, f. 262-264	Awards, Honors, Memberships in Learned Societies, etc. <i>3 Folders</i>	1879-1902
b. 14, f. 265	Certificate appointing Gibbs to the National Conference of Electricians, from President Chester Arthur.	1884 July 22
b. 14, f. 266	Honorary degrees, Memberships in Learned Societies, etc.	1884
b. 14, f. 267	Certificate of Admission to Yale College	1854 July
b. 14, f. 268	Notes on Death	1904 May
b. 14, f. 269	Personal Recollections and Impressions of J. Willard Gibbs by His Neice, Nephews, and Certain of His Pupils - bound volume. Deposited in the Yale University Library by Lynde P. Wheeler and Ralph G. Van Name, 1947 October 15	1947
b. 14, f. 270	<a href="#">Programs and other papers relating to Gibbs' continental studies.</a>	undated
b. 15 (Oversize)- 15c	Honors, Awards, and Memberships	1880-1902

### Series III: Class Notes by George P. Starkweather, 1892–1897

0.83 linear feet (2 boxes)

Arranged in chronological order.

b. 16, f. 271	Manuscript notebook of lecture notes taken by George P. Starkweather on Maxwell's Electricity and Magnetism, Volume I.	1895-1896
b. 16, f. 272	Manuscript notebook of lecture notes taken by George P. Starkweather on Maxwell's Electricity and Magnetism, Volume II.	1895-1896
b. 16, f. 273	Manuscript notebook of lecture notes taken by George P. Starkweather on Maxwell's Electricity and Magnetism, Volume III.	1895-1896
b. 16, f. 274	Manuscript notebook of lecture notes taken by George P. Starkweather on Thermodynamics, Volume I.	1893-1894
b. 16, f. 275	Manuscript notebook of lecture notes taken by George P. Starkweather on Thermodynamics, Volume II.	1893-1894
b. 16, f. 276	Manuscript notebook of lecture notes taken by George P. Starkweather on Thermodynamics, Volume III.	1893-1894
b. 17, f. 277	Manuscript notebook of lecture notes taken by George P. Starkweather on Electromagnetic Theory of Light, Volume I.	1892-1893, 1896-1897
b. 17, f. 278	Manuscript notebook of lecture notes taken by George P. Starkweather on Electromagnetic Theory of Light, Volume II.	1892-1893
b. 17, f. 279	Manuscript notebook of lecture notes taken by George P. Starkweather on Electromagnetic Theory of Light, Volume II.	1892-1893, 1896-1897
b. 17, f. 280	Manuscript notebooks of lecture notes taken by George P. Starkweather on Elliptic and Parabolic Motions and Computation of Orbits, Volumes I and II.	undated
b. 17, f. 281	Manuscript notebooks of lecture notes taken by George P. Starkweather on Vector Applications, Volumes I and II.	1894-1895
b. 17, f. 282	Manuscript notebooks of lecture notes taken by George P. Starkweather on Dynamics and Thermodynamics, Volumes I and II.	1894-1895

**Series IV: Photographs and Illustrations, 1860–1903***1.13 linear feet*

Arranged in no particular order.

b. 18, f. 283	Architectural plans of Yale College	undated
b. 18, f. 284	Photographs of Hopkins Grammar School	1860s
b. 18, f. 285	<a href="#">Photographs of a model of the thermodynamic surface of water</a>	undated
b. 18, f. 286	Photographic portrait of J. Willard Gibbs by Filley(?), New Haven.	undated
b. 18, f. 287	<a href="#">Photographic portrait of J. Willard Gibbs by Pach Bros., New York.</a>	undated
b. 18, f. 288	<a href="#">Photographic portrait of J. Willard Gibbs by Pach Bros., New York.</a>	undated
b. 18, f. 289	<a href="#">Photographic portrait of J. Willard Gibbs by Wilhelm Engelmann, Leipzig.</a>	1895?
b. 18, f. 290	Draft Gear Illustration	1947
b. 18, f. 291	Assorted negatives	undated
b. 18, f. 292	<a href="#">Photographic portraits of Gibbs as a young man, Gibbs as an adult, and Mary Anna Van Clare Gibbs.</a>	undated
b. 18, f. 293	<a href="#">71 High Street, New Haven, home of J. Willard Gibbs (later 121 High Street).</a>	undated
b. 18, f. 294	Portraits of Gibbs, and correspondence between Ruth Adams and Ralph Van Name.	1957
b. 19 (Oversize)	Portraits of Gibbs	undated

## Series V: Letters by and to J. Willard Gibbs (1790-1861) , 1811–1860

0.83 linear feet

Organized into two subseries: Letters by J. Willard Gibbs and Letters to J. Willard Gibbs

### Letters by J. Willard Gibbs

b. 20, f. 295	Autograph letter, signed, to Messrs. Baldwin and Forbes. New Haven.	1828 March 24
b. 20, f. 296	Autograph letter, signed, to Reverend E. C. Bridgman. New Haven.	1845 October 15
b. 20, f. 297	Copy of a letter, in Mrs. Gibbs' hand, to James Carnahan. New Haven.	1853 July 11
b. 20, f. 298	Autograph letter, signed, to Professor Jeremiah Day, accompanied by a manuscript confession of faith. Salem.	1811 November 7, 1811 December 2
b. 20, f. 299	2 autograph letters, signed, to Joseph Henry. New Haven.	1849 November 10, 1852 November 27
b. 20, f. 300	Autograph letter, signed, to Samuel J. Hitchcock. Salem.	1820 July 18
b. 20, f. 301	Certificate, signed, for William A. Macy. New Haven.	1845 October 15
b. 20, f. 302	2 autograph letters, signed, to J. Robert Morrison. New Haven.	1843 June 26 and September 5
b. 20, f. 303	Minutes concerning a teacher for the Morrison Education Society.	1843 May 16
b. 20, f. 304	Copy of an autograph letter, signed, to the Trustees of Morrison Education Society. New Haven.	1844 October 18
b. 20, f. 305	Autograph letter, signed, to the Trustees of the Morrison Education Society. New Haven.	1845 October 15
b. 20, f. 306	Certificate, signed, for Oscar Smith. New Haven.	1858 July 24
b. 20, f. 307	Autograph letter, signed, to Increase N. Tarbox. New Haven.	1851 July 14

### Letters to J. Willard Gibbs

b. 20, f. 308	List of Correspondence	
b. 20, f. 309	Adamson, James - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Capetown, South Africa.	1850 July 29
b. 20, f. 310	Adler, George J. (1821-1868) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1858 September 27, 1860 July 26 and October 4
b. 20, f. 311	Appleton, D. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1858 December 16
b. 20, f. 312	Arnoux, William Henry - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1860 February 21
b. 20, f. 313	Ball, Dyer - Printed circular on "Chinese Chistomathy" with manuscript note to Josiah Willard Gibbs (1790-1861). Macao, [China].	1842 January 15

Letters to J. Willard Gibbs (continued)

b. 20, f. 314	Barnard, Henry - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Hartford.	1856 November 15
b. 20, f. 315	Barnes, Jona[than] E. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Middletown.	1858 December 6
b. 20, f. 316	Bartlett, S. F. - Autograph letter, signed, to Reverend Chauncey Goodrich. Lyon, Connecticut.	1843 November 20
b. 20, f. 317	Beecher, William Henry - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). North Brookfield, Massachusetts.	1859 February 22
b. 20, f. 318	Blodget, Henry (1825-1903) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Waterville, Maine.	1853 October 25
b. 20, f. 319	Bonney, Samuel W. - 4 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York and Hong Kong.	1844 October 3, 19, and 29, 1845 April 2
b. 20, f. 320	Bradley, Charles William (1807-1865) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New Haven and Singapore.	1852 July 15, 1855 April 13
b. 20, f. 321	Brewer, Josiah (1796-1872) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Wethersfield, Connecticut; Hartford; and New Haven.	1839 July 11, 1843 November 11, 1844 August 9
b. 20, f. 322	Bridgeman, Elijah Coleman (1801-1861) - 10 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Various places.	1837-1845
b. 20, f. 323	Brigham, J. C. - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1841 May 12, 1858 August 4
b. 20, f. 324	Brown, D. F. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Xenia Greene County, Ohio.	1858 June 1
b. 20, f. 325	Brown, Samuel Robbins (1810-1880) - 4 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Macao and Hong Kong.	1839 September 13 and November 4, 1842 April 1, 1844 October 22
b. 20, f. 326	Budington, William Ives (1815-1879) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Andover, Massachusetts.	1851 August 30
b. 20, f. 327	Bulkley, Chauncey - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1859 April 15
b. 20, f. 328	Bushnell, Horace (1802-1876) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Hartford.	1854 April 4
b. 20, f. 329	Byington, Cyrus (1793-1868) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Includes the Lord's Prayer in Choctaw.	1833 July
b. 20, f. 330	Carnahan, James (1775-1859) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Princeton.	1853 July 6
b. 20, f. 331	Cary, J. Addison - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1844 September 28

Letters to J. Willard Gibbs (continued)

b. 20, f. 332	Chapin, Joel - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Trumbull.	1850 August 9 and September 2
b. 20, f. 333	Chesebrough, Amos I. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Chester, Connecticut.	1851 June 26
b. 20, f. 334	Clapp, L. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Wisconsin.	1849 December 6
b. 20, f. 335	Cleveland, Charles Dexter (1802-1869) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1858 December 10, 1860 September 24
b. 20, f. 336	Conant, Thomas Jefferson (1802-1891) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Rochester.	1855 September 14
b. 20, f. 337	Converse, A. - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1845 May 1 and December 18
b. 20, f. 338	Crowell, Edward P. - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Amherst, Massachusetts.	1858 December 31, 1859 February 15
b. 20, f. 339	Cushing, T. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Boston.	1846 May 8
b. 20, f. 340	Dabney, Jonathan Peele (d. 1868) - 8 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Salem and Boston.	1836-1844
b. 20, f. 341	Day, George Edward (1815-1905) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Tubingen, Germany; Northampton; Lane Seminary.	1844 August 5, 1848 October 12, 1852 March 25
b. 20, f. 342	Der-Sahazyan, Hohanness B. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Ada-Razar.	1849 September 26
b. 20, f. 343	D'Israel, Mr. - Autograph confession of faith to Josiah Willard Gibbs (1790-1861).	1843 June
b. 20, f. 344	Dixwell, Epes Sargent (1807-1899) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Cambridge, Massachusetts.	1858 June 1
b. 20, f. 345	Dobie, David - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Plattsburgh, New York.	1852 November 1
b. 20, f. 346	Dwight, Benjamin Woodbridge (1816-1889) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Clinton, New York.	1841 September 25, 1860 November 13
b. 20, f. 347	Edmands, John - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1856 April 23, 1858 December 14
b. 20, f. 348	Eichthal and Bernhard - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1843 July 28
b. 20, f. 349	Edwards, B. B. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Andover.	1848 November 15



Letters to J. Willard Gibbs (continued)

b. 20, f. 350	Elton, Romeo (1790-1870) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Exeter, England.	1859 March 31
b. 20, f. 351	Eames, Theodore - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Brooklyn.	1839 August 10
b. 20, f. 352	Francis, Convers - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Cambridge.	1859 January 1
b. 20, f. 353	Fletcher, Mr. - Printed circular, Massachusetts Herald, to Josiah Willard Gibbs (1790-1861).	1839 October 12
b. 20, f. 354	Fisher, George Park (1827-1909) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Andover, Massachusetts.	1854 August 17
b. 20, f. 355	Fowler, William C. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Amherst.	1853 December 26
b. 20, f. 356	Foote, Charles - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Middletown.	1831 January 3
b. 20, f. 357	Gildemeister, Edward - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1841 May 24
b. 20, f. 358	Goldsmith, B. M. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Southport.	1843 September 28
b. 20, f. 359	Green, John C. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1840 June 23
b. 20, f. 360	Grout, Lewis (1815-1905) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Africa.	1850 July 29, 1853 February 17 and August 29
b. 20, f. 360a	Hadley, James Jr. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1844 August 30
b. 20, f. 361	Hackett, Horation Balch (1808-1875) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Newton Center, Massachusetts.	1847 May 25
b. 20, f. 362	Hammond, Charles - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Groton.	1858 May 24
b. 20, f. 363	Hart, Lucius - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1844 September 28
b. 20, f. 364	Henry, Joseph - 3 autograph letters, signed, 1 letter, signed, and 1 copy of a letter to Josiah Willard Gibbs (1790-1861). Washington, D. C.	1849-1852, no date
b. 20, f. 365	Herrick, E. C. - 1 autograph letter, signed, and 1 autograph note, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1851 July 23 and August 4
b. 20, f. 366	Higginson, Stephen (1770-1834) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Cambridge.	1829 February 8 and April 28, 1833 June 11
b. 20, f. 367	Hillhouse, Augustus Lucas (1791-1859) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1811 November 8

Letters to J. Willard Gibbs (continued)

b. 20, f. 368	Hillier, C. M. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Hong Kong.	1846 April 15
b. 20, f. 369	Homer, Jona - Reprint from a newspaper with manuscript note to Josiah Willard Gibbs (1790-1861). Includes newspaper clipping.	1830 August 28
b. 20, f. 370	Homes, Henry Augustus (1812-1887) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Boston and Albany.	1841 April 2, 1855 April 23
b. 20, f. 371	Hordynsky, Henry de - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Latin	1844 October 17, October 30
b. 20, f. 372	Hosington, H. W. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Williamstown.	1852 May 1
b. 20, f. 372a	Hoyt, J. B. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Coventry.	1852 August 19
b. 20, f. 373	Hunt, Ralph - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1843 July 12
b. 20, f. 374	Huntington, Frederic Dan (1819-1904) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Cambridge.	1858 December 13
b. 20, f. 375	Hutchinson, Enoch - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Boston.	1841 June 22
b. 21, f. 376	Jewett, Stephen - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Derby.	1831 March 21
b. 21, f. 377	Johnson, Ebenezer Alfred (1813-1891) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1852 June 11
b. 21, f. 378	Kilbourn, Payne K. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Litchfield. Includes one page of proof.	1848 February 11
b. 21, f. 379	Kent, Aratus - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Galina.	1860 June 20
b. 21, f. 380	Larned, William Augustus (1806-1862) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Millbury and Troy.	1835 September 11 and December 14
b. 21, f. 381	Laughlin, William - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Canal Onondaga, New York.	1858 April 17
b. 21, f. 382	Leavitt, Joshua (1794-1873) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1835 April 25
b. 21, f. 383	Lee, Charles M. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Rochester.	1832 April 11

Letters to J. Willard Gibbs (continued)

b. 21, f. 384	Lee, Johnathan (1786-1866) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Salisbury.	1846 January 19, 1850 August 13, 1853 September 2
b. 21, f. 385	Lindsay, J. W. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Middletown.	1858 December 13
b. 21, f. 386	Lobdell, Henry (1827-1855) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Auburn, New York; Danbury, Connecticut; Mosul, Turkey.	1850 February 5, 1851 July 3, 1854 January 5
b. 21, f. 387	Lockwood, Peter - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Berkshire, New York.	1844 July 27 and August 5
b. 21, f. 388	Lord, David Nevins (1792-1880) - 10 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1850-1856
b. 21, f. 389	Lowrie, Walter - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1845 June 28
b. 21, f. 390	Maclean, John (1800-1886) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Princeton.	1853 August 19
b. 21, f. 391	MacWhorter, Alexander - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861).	1857 May 22
b. 21, f. 392	Macy, William Allen (1825-1859) - 7 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Various places.	1845-1858
b. 21, f. 393	Marsh, George Perkins (1801-1882) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Burlington.	1860 October 23
b. 21, f. 394	Martin, Benjamin Nicholas (1816-1883) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Albany.	1852 May 25
b. 21, f. 395	Meigs, Benjamin C. (1789-1862) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Jaffna, Ceylon.	1843 October 16
b. 21, f. 396	Meigs, L. H. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1852 March 2
b. 21, f. 397	Moffat, James Clement (1811-1890) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Princeton.	1859 April 8
b. 21, f. 398	Morrison, J. Robert - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Macao, China.	1836 January 1
b. 21, f. 399	Morrison, Robert - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Macao, China.	1842 April 9
b. 21, f. 400	Murdock, Abraham - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Columbus, Mississippi.	1859 August 13, 1860 January 14
b. 21, f. 401	Nazro, John Coffin - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). White's White Mountain House.	1850 August 29
b. 21, f. 402	New Haven, Secretary of the Horticultural Society of - Typed letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1821 December 1

Letters to J. Willard Gibbs (continued)

b. 21, f. 403	Nordheimer, Isaac - Prospectus of a Hebrew Concordance.	1842 January 1
b. 21, f. 404	Olyphant, Talbot - 4 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1840 June 2, 1845 September 27 and October 8 and 10
b. 21, f. 405	Park, Edwards Amasa (1808-1900) - 7 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Andover.	1851-1860
b. 21, f. 406	Parker, Peter - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861).	1841 October 6
b. 21, f. 407	Perkins, B. - Printed circular, American Quarterly Observer, with manuscript note to Josiah Willard Gibbs (1790-1861).	1833 March 26
b. 21, f. 408	Perkins, Henry - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1835 December 15
b. 21, f. 409	Philbrick, John D. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Boston.	1859 June 21
b. 21, f. 410	Pickering, John - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Boston.	1841 March 25
b. 21, f. 411	Pickering, Mary - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Salem.	1857 April 14
b. 21, f. 412	Porcher, Frederick A. (1809-1888) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Charleston.	1852 January 27
b. 21, f. 413	Porter, Noah (1781-1866) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Farmington.	1838 April 4, 1842 April 12
b. 21, f. 414	Porter, Samuel (1810-1901) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Hartford.	1841 February 15
b. 21, f. 415	Pratt, Andrew Tully (1826-1872) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Anitab.	1855 August 1
b. 21, f. 416	Ripley, George (1802-1880) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1860 May 16 and June 6 and October 30
b. 21, f. 417	Rockwell, Elijah Frink (1809-1888) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Davidson College, North Carolina.	1858 May 13, 1859 March 23
b. 21, f. 418	Rubinson, T. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Philadelphia.	1851 November 1
b. 21, f. 419	St. John, Samuel - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Canaan.	1837 February 18
b. 21, f. 420	Salem, Massachusetts Exchange Bank - Printed note to Josiah Willard Gibbs (1790-1861). Salem.	1830 February 2
b. 21, f. 421	Salisbury, Edward Elbridge (1814-1901) - 3 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Oxford, New Haven.	1836 July 9, 1842 November 8, 1848 June 29

Letters to J. Willard Gibbs (continued)

b. 21, f. 422	Sawyer, George - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Exeter, New Hampshire; Utica.	1858 March 15, 1859 January 16
b. 21, f. 423	Silliman, Benjamin - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New Haven. The 1843 letter includes a note from Day to Gibbs.	1843 August 21, 1858 November 15
b. 21, f. 424	Smalley, George W. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Worcester.	1851 September 16
b. 21, f. 425	Smith, Francis O. J. - Printed telegraph alphabet to Josiah Willard Gibbs (1790-1861). Boston.	1846 August 1
b. 21, f. 426	Smythe, C. W. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Newton, North Carolina.	1858 December 9
b. 21, f. 427	Sophocles, Evangelinus Apostolides (1807-1883) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Cambridge.	1857 July 16
b. 21, f. 428	Sprague, William Buell (1795-1876) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Albany.	1849 March 2 and December 4
b. 21, f. 429	Sprigg, Samuel - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Northampton.	1831 January 26, 1832 January 19
b. 21, f. 430	Stoeber, M. L. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Pennsylvania College.	1848 August 18
b. 21, f. 431	Stone, A. L. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1843 August 17
b. 21, f. 432	Stone, James A. B. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Gloucester. Includes a printed prospectus of Hexaglott New Testament.	1841 May 13
b. 21, f. 433	Stuart, Moses - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861).	1829 May 23
b. 21, f. 434	Tappan, Lewis (1788-1873) - 5 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York.	1841 July 23- December 1
b. 21, f. 435	Tarbox, Increase - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Boston.	1851 July 10
b. 21, f. 436	Thatcher, Thomas A. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1853 July 2
b. 21, f. 437	Thompson, A. C. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Roxbury.	1860 April 10
b. 21, f. 438	Thompson, Joseph P. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1857 July 3
b. 21, f. 439	Tooley, Henry - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Natchez and New Haven.	1846 August 27 and September 16

Letters to J. Willard Gibbs (continued)

b. 21, f. 440	Turner, Samuel H. (1790-1861) - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861).	1831 January 22, 1852 December 21
b. 21, f. 441	Turner, William W. (1810-1859) - 5 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). New York and Washington, D.C.	1843-1853
b. 21, f. 442	Waite, A. M. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New Haven.	1851 July 11
b. 21, f. 443	Waterman, C. - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1851 April 27
b. 21, f. 444	Wheatland, Henry (1812-1893) - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Salem.	1858 May 4
b. 21, f. 445	White, Henry - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). New York.	1843 May 19
b. 21, f. 446	Wilson, Jacob - 2 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Canajohanie.	1860 November 12 and 26
b. 21, f. 447	Withington, William - Autograph letter, signed, to Josiah Willard Gibbs (1790-1861). Dorchester, Massachusetts.	1835 June 14
b. 21, f. 448	Worcester, Joseph Emerson (1784-1865) - 10 autograph letters, signed, to Josiah Willard Gibbs (1790-1861). Cambridge.	1846-1860
b. 21, f. 449	Miscellaneous materials and notes relating to Josiah Willard Gibbs (1790-1861).	1813-1855

## 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.

### Subjects

Mathematics -- Study and teaching  
Orbits  
Physicists -- United States  
Physics -- Study and teaching  
Scientists -- United States

### Occupations

Physicists -- United States -- 19th century  
Scientists -- United States -- 19th century

### Names

Bancroft, Wilder D. (Wilder Dwight), 1867-1953  
Beecher, William Henry, 1802-1889  
Bridgeman, Elijah Coleman  
Buchholz, Hugo, 1866-1921  
Day, George Edward, 1815-1872  
Dexter, Franklin Bowditch, 1842-1920  
Dwight, Timothy, 1828-1916  
Gibbs, J. Willard (Josiah Willard), 1839-1903  
Gibbs, Josiah W. (Josiah Willard), 1790-1861  
Goodenow, Smith B. (Smith Bartlett), 1817-1897  
Macy, William Allen  
Ostwald, Wilhelm, 1853-1932  
Planck, Max, 1858-1947  
Silliman, Benjamin, 1779-1864  
Starkweather, George P.  
Thomson, J. J. (Joseph John), 1856-1940

### Families

Gibbs family

### Corporate Body

Yale University