



Smithsonian

Institution Archives

Samuel P. Langley Papers,
1866-1906, 1909, 1914, 1942

Finding aid prepared by Smithsonian Institution Archives

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu
Title:	Samuel P. Langley Papers
Date:	1866-1906, 1909, 1914, 1942
Identifier:	Record Unit 7003
Creator::	Langley, S. P. (Samuel Pierpont), 1834-1906
Extent:	19.67 cu. ft. (22 document boxes) (2 half document boxes) (11 12x17 boxes) (4 16x20 boxes) (8 microfilm reels) (6 oversize folders)
Language:	English

Administrative Information

Preferred Citation

Smithsonian Institution Archives, Record Unit 7003, Samuel P. Langley Papers

Descriptive Entry

Samuel P. Langley (1834-1906) was the third Secretary of the Smithsonian Institution. Apparently, many of Langley's papers were accidentally burned after his death. Langley papers in the Smithsonian are housed in the Smithsonian Archives and the National Air and Space Museum (NASM). The Allegheny Observatory holds papers from Langley's years there, from which copies of Langley's correspondence, 1867-1887, have been made for this collection.

These papers document important aspects of Langley's scientific and administrative career. Most of the material documents the progress of his aeronautical research from his first flying model of 1891 through the failure of his Aerodrome A of 1903. Also, information files housed in the National Air and Space Museum Library include secondary accounts and photographs relating to Langley's aeronautical studies. Related materials in the NASM Library include the Stephen M. Balzer papers, 1898-1902, which consist of correspondence with Langley and his associate, Charles M. Manly, regarding Balzer's aerodrome engines.

Materials in this collection consist of publications, including a bound collection of writings, and original manuscripts of many of Langley's publications, 1869-1905; diaries and shorthand notebooks, mostly kept by Langley's secretary, 1889-1905; bolograph curve and line spectrum readings; microfilm and photocopies of Langley's outgoing correspondence from the Allegheny Observatory, 1867-1887; astrophysical research correspondence; scrapbooks, 1890-1903; aeronautical research, including correspondence, wastebooks, and notes of Langley and Manly and their assistants, E. C. Huffaker, L. C. Maltby, B. L. Rhinehart, and R. L. Reed; and oversize aerodrome drawings and bolometer readings.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Aeronautics
Astronomy and astrophysics

Types of Materials:

Black-and-white photographs
Manuscripts

Names:

Allegheny Observatory
Balzer, Stephen M.
Huffaker, Edward C.
Langley, S. P. (Samuel Pierpont), 1834-1906
Maltby, L. C.
Manly, Charles Matthews, 1876-1927
Reed, R. L.
Rinehart, Bentley L.
Smithsonian Institution
Smithsonian Institution. Office of the Secretary

Container Listing

Box 1

- Box 1 of 39
- Folder 1 Collected Writings of Samuel P. Langley, [Volume 4], 1891-1901:
- Notes:
- Table of Contents
 - 116. "Experiences d'Aerodynamique," *Revue de l'Aeronautique*, Paris, 1891
 - 117. "Smithsonian Standards for Physical Apparatus," letter to the editor of *Nature*, December 31, 1891, p. 197
 - 118. Address at the Celebration of the Beginning of the Second Century of the American Patent System, Washington, D.C., April 8-9, 1891, published by the Executive Committee, 1892
 - 119. "Mechanical Flight," *The Cosmopolitan*, May 1892, pp. 55-58
 - 120. "The Internal Work of the Wind," *Smithsonian Contributions to Knowledge*, Number 884, Washington, D.C., 1893

- Box 1 of 39
- Folder 2 Collected Writings of Samuel P. Langley, [Volume 4], 1891-1901:
- Notes:
- 121. "Le Travail Interieur du Vent," *Revue de l'Aeronautique*, Paris, 1893
 - 122. "The Meterological Work of the Smithsonian Institution," extract from the papers of the Chicago Meteorological Congress, August 1893
 - 123. "The Internal Work of the Wind," from the *American Journal of Science*, Volume XLVII, January 1894
 - 124. "Mr. Langley's Recent Progress in Bolometer Work at the Smithsonian Astro-physical Observatory," abstract of a communication made to the Philosophical Society of Washington, May 27, 1893, *Astronomy and Astro-physics*, January 1894
 - 125. "The Meteorological Work of the Smithsonian Institution," abstract prepared for the Chicago Congress of Meteorology, *The American Meteorological Journal*, January 1894
 - 126. "On the Recent Solar Spectrum Work at the Smithsonian Observatory," abstract of a paper read to the National Academy of Sciences, April 18, 1894, from *Le memorie della Societa degli spettroscopisti italiani*, Volume XXIII, 1894
 - 127. "On Recent Researches in the Infra-red Spectrum, Read to Section A of the British Association, at the Oxford Meeting, on August 11, 1894," *Nature*, November 1, 1894, pp. 12-16
 - 128. "On Recent Researches in the Infra-red Spectrum," from the Report of the Oxford Meeting of the British Association for the Advancement of Science, 1894

- 129. "Nouvelles recherches sur la infra-rouge du spectre solaire," *Comptes rendus des Seances de l'Academie des Sciences*, Paris, Volume CXIX, Number 7, 13 August 1894
- 130. "Nouvelles recherches sur la region infra-rouge du spectre solaire," *Comptes rendus des Seances de l'Academie des Sciences*, Volume CXIX, 13 August 1894
- 131. Obituary notice of Montgomery Cunningham Meigs, read before the Society, March 26, 1891, *Philosophical Society of Washington Bulletin*, Volume XIII, March 1895
- 132. "More Recent Observations in the Infra-red Spectrum," summary of a paper read before the Philosophical Society of Washington, April 11, 1896, *Science*, Volume III, Number 69, April 24, 1896
- 133. "Description du vol mecanique," Institut de France, *Comptes rendus des Seances de l'Academie des Sciences*, Volume CXXII, 26 May 1896

Box 1 of 39

Folder 3 Collected Writings of Samuel P. Langley, [Volume 4], 1891-1901:
Notes:

- 134. "A Successful Trial of the Aerodrome," *Science*, Friday, May 22, 1896, p. 753
- 135. "Experiments in Mechanical Flight," *Nature*, May 28, 1896, p. 80
- 136. "L'Aeroplan de M. Samuel Pierpont Langley," *L'Aeronaute*, 29e Annee, Number 7, July 1896
- 137. Biographical Sketch of William Crawford Winlock, *Astronomische Nachrichten*, Number 3401, December 8, 1896
- 138. George Brown Goode biographical notice, reprinted from *Science*, Volume IV, November 6, 1896, pp. 661-668
- 139. Biographical Sketch of William Crawford Winlock, *Popular Astronomy*, January 1897, pp. 351-352
- 140. Memoir of George Brown Goode, 1851-1896, read before the National Academy, April 21, 1897
- 141. "The New Flying Machine," *The Strand Magazine*, Volume IX, Number 2, June 1897, pp. 701-718
- 142. "The 'Flying Machine'," *McClure's Magazine*, June 1897, pp. 647-660
- 143. "George Brown Goode," *Science*, Volume 5, Number 114, March 5, 1897, pp. 369-372
- 144. "The Bolometer," from the *American Journal of Science*, Volume V, April 1898, pp. 241-245
- 145. "The Bolometer," reprinted from the *American Journal of Science*, April 1898, *Nature*, April 28, 1898
- 146. "The Structure of the Inner Corona," letter to the editor of *Nature*, March 8, 1900, p. 443

- 147. "A Preliminary Account of the Solar Eclipse of May 28, 1900, as Observed by the Smithsonian Expedition," *Science*, June 22, 1900, pp. 974-980
- 148. "A Preliminary Account of the Solar Eclipse of May 28, 1900, as Observed by the Smithsonian Expedition," *The Popular Science Monthly*, July 1900, pp. 302-309
- 149. "The Total Solar Eclipse as Observed by the Smithsonian Expedition," *Nature*, July 12, 1900, pp. 246-248

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Folder 4 Collected Writings of Samuel P. Langley, [Volume 4], 1891-1901:

Notes:

- 150. *Annals of the Astrophysical Observatory of the Smithsonian Institution*, Volume I

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Folder 5 Collected Writings of Samuel P. Langley, [Volume 4], 1891-1901:

Notes:

- 151. "Note on the Aerodrome of Mr. Langley," prepared for the Conversazione of the American Institute of Electrical Engineers, 1901
- 152. "The New Spectrum," from the *Philosophical Magazine* for July 1901, abstract of a paper read before the National Academy of Science, April 18, 1901
- 153. "The Fire Walk Ceremony in Tahiti," letter to the editor of *Nature*, August 22, 1901, pp. 397-399
- 154. "The Children's Room at the Smithsonian," *St. Nicholas*, Volume XXVIII, Number 11, September 1901, pp. 963-964
- 155. "The New Spectrum," from the Smithsonian Report for 1900, pp. 683-692
- 156. "The Langley Aerodrome," from the Smithsonian Report for 1900, pp. 197-216
- 157. "A Preliminary Account of the Solar Eclipse of May 28, 1900, as Observed by the Smithsonian Expedition," from the Smithsonian Report for 1900, pp. 149-156
- 158. "Diary of a Voyage from San Francisco to Tahiti and Return, 1901," *The National Geographic Magazine*, December 1901, pp. 413-429
- 159. "The New Spectrum," reprinted from the *American Journal of Science*, Fourth Series, Volume XI, Number 66, June 1901
- 160. "On the Cheapest Form of Light," *Smithsonian Miscellaneous Collections*, Number 1258, 1901

Box 2

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Folder 1 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905:

Notes:

- Table of Contents
- 161. "James Smithson," from *The Smithsonian Institution: The History of its First Half Century*, pp. 1-24

- 162. "The Benefactors," from *The Smithsonian Institution: The History of its First Half Century*, pp. 235-246
- 163. "The Astrophysical Observatory," from *The Smithsonian Institution: The History of its First Half Century*, pp. 419-442

Box 2 of 39	Folder 2 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905: Notes:	<ul style="list-style-type: none">• 164. "Report on the Astrophysical Observatory," Senate Document Number 20, 57th Congress, 1st Session, 1901
Box 2 of 39	Folder 3 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905: Notes:	<ul style="list-style-type: none">• 165. Annals of the Astrophysical Observatory, Volume I, reprinted from Senate Document Number 20
Box 2 of 39	Folder 4 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905: Notes:	<ul style="list-style-type: none">• 166. "Memoir of George Brown Goode, 1851-1896," from the <i>Biographical Memoirs of the National Academy of Sciences</i>, Volume IV, pp. 145-174• 167. Annals of the Astrophysical Observatory, Volume I, reprinted from the Monthly Weather Review for May 1902• 168. "The Fire Walk Ceremony in Tahiti," Smithsonian Publication Number 1348• 169. "The Laws of Nature," Smithsonian Publication Number 1349• 170. "The Laws of Nature," reprinted from <i>Science</i>, Volume XV, Number 369, June 13, 1902, pp. 921-927• 171. "The Greatest Flying Creature: Introducing a Paper on the <i>Pterodactyl Ornithostoma</i>," by F. A. Lucas, Smithsonian Publication Number 1358• 172. "Notes on the Fire-Ordeal: Professor Langley's Narrative; its differentiation from others," from <i>Realization</i> for July-August 1902, Volume II, Number 4, pp. 113-119• 173. "In Memory of John Wesley Powell," reprinted from <i>Science</i>, Volume XVI, Number 411, November 14, 1902, pp. 782-790
Box 2 of 39	Folder 5 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905: Notes:	<ul style="list-style-type: none">• [Items 174-175 removed to box 39, folder 6-7]• 176. "Good Seeing," from the <i>American Journal of Science</i>, Volume XV, February 1903• 177. "The 'Solar Constant' and Related Problems," from the <i>Astrophysical Journal</i>, Volume XVII, Number 2, March 1903, pp. 89-99• 178. "The 'Solar Constant' and Related Problems," reprinted from the <i>Astrophysical Journal</i>, Volume XVII, Number 2, March 1903, University of Chicago Press

- 179. "Powell as a Man, from the Proceedings of a Meeting Commemorative of his Distinguished Services," *Proceedings of the Washington Academy of Sciences*, Volume V, July 18, 1903, pp. 99-187
- 180. "Good Seeing," Smithsonian Publication Number 1385
- 181. "The Scientific Work of the Government," from *Scribner's Magazine*, New York, Volume XXXV, Number 1, January 1904
- 182. "James Smithson," reprinted from *The Smithsonian Institution, 1846-1896: The History of its First Half Century*

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Folder 6 Collected Writings of Samuel P. Langley, Volume 5, 1897-1905:
Notes:

- 183. "The 1900 Solar Eclipse Expedition of the Astrophysical Observatory of the Smithsonian Institution," Smithsonian Publication Number 1439
- 184. "A Method of Avoiding Personal Equation in Transit Observations," Smithsonian Publication Number 1446, reprinted from *Smithsonian Miscellaneous Collections* (Quarterly Issue), Volume 45
- 185. "The Removal of the Remains of James Smithson," Smithsonian Publication Number 1449, reprinted from *Smithsonian Miscellaneous Collections* (Quarterly Issue), Volume 45
- 186. "The Exhibit of the Smithsonian Astrophysical Observatory," printed for distribution at the Louisiana Purchase Exposition
- 187. "On a Possible Variation of the Solar Radiation and Its Probable Effect on Terrestrial Temperatures," from *The Astrophysical Journal*, Volume XIX, Number 5, June 1904
- 188. "On the Possible Variation of the Solar Radiation and Its Probable Effect on Terrestrial Temperatures," reprinted from *The Astrophysical Journal*, Volume XIX, Number 5, June 1904
- 189. "On the Comparative Luminosity and Total Radiation of the Solar Corona," reprinted from *The Astrophysical Journal*, Volume XXI, Number 2, March 1905
- 190. "Experiments with the Langley Aerodrome," Smithsonian Publication Number 1597

Box 3

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Folder 1 Collected Writings of Samuel P. Langley, Volume 3, 1888-1891:
Notes:

- Table of Contents
- 105. "The History of a Doctrine," address by S. P. Langley, President of the American Association for the Advancement of Science; delivered at the Cleveland meeting, August 1888

- 106. "The Temperature of the Moon, from Studies at the Allegheny Observatory by S. P. Langley, with the Assistance of F. W. Very," from the *American Journal of Science*, Volume XXXVIII, December 1889
- 107. "The Solar and Lunar Spectrum," *National Academy of Sciences*, Volume IV, Second Memoir
- 108. "The Temperature of the Moon, from Researches Made at the Allegheny Observatory by S. P. Langley, Assisted by J. W. Very," read November 1887, *National Academy of Sciences*, Volume IV, Part 2, Third Memoir

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Folder 2 Collected Writings of Samuel P. Langley, Volume 3, 1888-1891:

Notes:

- 109. "The Temperature of the Moon," by S. P. Langley, read November 1887, *National Academy of Sciences*, Volume IV, Ninth Memoir
- 110. "On the Observation of Sudden Phenomena," by S. P. Langley, *Philosophical Society of Washington Bulletin*, Volume XI, pp. 41-50
- 111. "On the Observation of Sudden Phenomena," by S. P. Langley, from the *American Journal of Science*, Volume XXXVIII, August 1889
- 112. "On the Cheapest Form of Light, from Studies at the Allegheny Observatory," by S. P. Langley and F. W. Very
- 113. "Recherches experimentales aerodynamiques donnees d'experience," *Comptes rendus des Seances de l'Academie des Sciences*, Volume CXIII, 13 July 1891

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Folder 3 Collected Writings of Samuel P. Langley, Volume 3, 1888-1891:

Notes:

- 114. "Experiments in Aerodynamics," *Smithsonian Contributions to Science*, Volume XXVII, 1891
- 115. "The Possibility of Mechanical Flight"

Box 4

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Folder 1 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Table of Contents
- Report of Samuel P. Langley, Secretary of the Smithsonian Institution, for the Year 1887-1888
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1889

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Folder 2 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1890

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1891
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1892

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Folder 3 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1893
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1894
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1895

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Folder 4 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1896
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1897
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1898

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Folder 5 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1899
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1900

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Folder 6 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

Notes:

- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1901
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1902

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Folder 7 Collected Writings of Samuel P. Langley - Reports, Volume 6, 1888-1905:

- Notes:
- Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1903
 - Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1904
 - Report of S. P. Langley, Secretary of the Smithsonian Institution, for the Year Ending June 30, 1905

Box 5

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| Box 5 of 39 | Folder 1 Collected Writings of Samuel P. Langley, 1869-1882 |
| Box 5 of 39 | Folder 2 1900 Solar Eclipse Expedition of APO [Astrophysical Observatory], 1904 |
| Box 5 of 39 | Folder 3 Total Solar Eclipse of July 29, 1878, Observations at Pike's Peak, Colorado, and Experiments in Aerodynamics by Samuel P. Langley, 1891 |
| Box 5 of 39 | Folder 4 The Internal Work of the Wind, by Samuel P. Langley, 1893 |
| Box 5 of 39 | Folder 5 Samuel P. Langley's Private Copy of Experiments in Aerodynamics, 1891 |

Box 6

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| Box 6 of 39 | Folder 1 Collected Writings of Samuel P. Langley, Volume 2, 1883-1889:
Notes: <ul style="list-style-type: none">• 69. "Note on the Transit of Venus, 1882," <i>The Sidereal Messenger</i>• 70. "The Distribution of Solar Energy," <i>Proceedings of the Society of Arts</i>, Meeting 297• 71. "The Selective Absorption of Solar Energy," from the <i>American Journal of Science</i>, Volume XXV, March 1883• 72. Die auswahlende Absorption der Energie der Sonne," <i>Annalen der Physik und Chemie</i>, 1883• 73. "Venus and the Transit of 1882," <i>Science for All</i>• 74. "The Spectrum of an Argand Burner," <i>Science</i>• 75. "Sur l'absorption selective de l'energie solaire"• 76. "Astonishing results in late lunar researches," <i>The Sidereal Messenger</i>, August 1883• 77. "A Vast Dust Envelope," <i>The Sidereal Messenger</i>, February 1884• 78. Extract from the Annual Report of the Director, Allegheny Observatory, 1884• 79. "Experimental Determination of Wave-lengths in the Invisible Prismatic Spectrum," from the <i>American Journal of Science</i>, Volume XXVII, March 1884 |
|-------------|--|

- 80. "Experimentelle Bestimmung der Wellenlangen im unsichtbaren prismatischen Spectrum," *Annalen der Physik und Chemie*, 1884
- 81. "Memoir on the Experimental Determination of Wave-lengths in the Invisible Prismatic Spectrum," a communication to the National Academy of Sciences, April 1883
- 82. "On the Amount of Atmospheric Absorption," from the *American Journal of Science*, Volume XXVIII, September 1884

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Folder 2 Collected Writings of Samuel P. Langley, Volume 2, 1883-1889:

Notes:

- 83. "Researches on Solar Heat and its Absorption by the Earth's Atmosphere: A Report on the Mount Whitney Expedition," *Professional Papers of the Signal Service*, Number XV, 1884

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Folder 3 Collected Writings of Samuel P. Langley, Volume 2, 1883-1889:

Notes:

- 84. "The New Astronomy," *Century Magazine*, September 1884/December 1884
- 84. "Sunlight and the Earth's Atmosphere," Royal Institution of Great Britain, Weekly Evening Meeting, Friday, April 17, 1885
- 86. "Sunlight and the Earth's Atmosphere," Numbers I and II, *Nature*, May 7/14, 1885
- 87. *Detroit Free Press*, August 29, 1885
- 88. "On the Temperature of the Surface of the Moon, from Researches Made at the Allegheny Observatory"
- 89. "Transmission of Light by Wire Gauze Screens," from the *American Journal of Science*, Volume XXX, September 1885
- 90. "Observations on the Invisible Heat-spectra and the Recognition of Hitherto Unmeasured Wave-lengths Made at the Allegheny Observatory," from the *Proceedings of the American Association for the Advancement of Science*, Volume XXXIV
- 91. "Note on Optical Properties of Rock-salt," *American Journal of Science*, Volume XXX, December 1885
- 92. "Observations on Invisible Heat-spectra and the Recognition of Hitherto Unmeasured Wave-lengths Made at the Allegheny Observatory," from the *American Journal of Science*, Volume XXXI, January 1886
- 93. "The Temperature of the Moon," letter to the editor of *Science*, January 1, 1886
- 94. "Longueurs d'onde jusqu'ici non reconnues," *Comptes rendus*, January 18, 1886
- 95. "The Temperature of the Moon," letter to the editor of *Science*, January 22, 1886

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Folder 4 Collected Writings of Samuel P. Langley, Volume 2, 1883-1889:

- Notes:
- 96. "On Hitherto Unrecognized Wave-lengths," *Philosophical Magazine*, August 1, 1886
 - 97. "On Hitherto Unrecognized Wave-lengths," from the *American Journal of Science*, Volume XXXII, August 1886
 - 98. "Pritchard's Wedge Thermometer," *Investigations on Light and Heat*
 - 99. "Sur les spectres invisibles," *Annales de chimie et physique*, December 1886
 - 100. "Sunlight colours," letter to the editor of *Nature*, May 26, 1887
 - 101. Opening remarks of the President of the American Association, New York, 1887, *Science*, August 12, 1887
 - 102. "Energy and Vision," from the *American Journal of Science*, Volume XXXVI, November 1888
 - 103. "The Invisible Solar and Lunar Spectrum," *American Journal of Science*, Third Series, Volume XXXVI, Number 216, December 1888
 - 104. "The History of a Doctrine," address by S. P. Langley, retiring President of the American Association for the Advancement of Science, *American Journal of Science*, Volume XXXVII, January 1889

Box 7

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Folder 1 Collected Writings of Samuel P. Langley, Volume 1, 1869-1882:

- Notes:
- Table of Contents
 - 1. "Of the total eclipse of August 7, 1869," report by Professor S. P. Langley of observations at Oakland, Kentucky
 - 2. Allegheny Observatory, Proposal for regulating the clocks of railroads, December 1, 1869
 - 3. "Recent discoveries in astronomy," report of the Teachers' Institute of Allegheny County, Tenth Annual Session, April 4-8, 1870
 - 4. Letter concerning the eclipse of 1870, December 23, 1870, from the *Journal of the Franklin Institute*
 - 5. "The American eclipse expedition, 1870," *Nature*, January 19, 1871
 - 6. "A new form of solar eye-piece," from *Mechanics, Physics, and Chemistry*
 - 7. "Reports of observations upon the total solar eclipse of December 22, 1870," Appendix Number 16 from the United States Coast Survey Report for 1870
 - 8. *Pittsburgh Gazette*, April 27, 1872
 - 9. "On the Allegheny System of Electric Time Signals," article XLIV from the *American Journal of Science*, Third Series, Volume IV, Number 23, November 1872
 - 70. *Pittsburgh Gazette*, April 16, 1873

- 11. Report of the Director of the Allegheny Observatory to the Committee of the Board of the Western University of Pennsylvania, 1873
- 12. "The Solar Photosphere," from the *American Association for the Advancement of Science*, Volume XXII
- 13. "A Spot of Unusual Magnitude and Brilliancy Visible," *Pittsburgh Gazette*, December 27, 1873
- 14. "On the minute structure of the solar photosphere," from the *American Journal of Science and Arts*, Volume VII, February 1874

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Folder 2 Collected Writings of Samuel P. Langley, Volume 1, 1869-1882:

Notes:

- 15. "Uniform railway time," from the *American Exchange and Review*, Volume XXIV, Number 5, January 1874
- 16. *London Times*
- 17. "Strange - if true," *The College Journal*, February 26, 1874
- 18. "The Sun," *Pittsburgh Telegraph*, April 22, 1874
- 19. *Pittsburgh Gazette*, July 17, 1874
- 20. "Coggia's comet," *Pittsburgh Gazette*, July 18, 1874
- 21. "The external aspects of the sun," *Journal of the Franklin Institute*, Volume LXVIII, Number 2, August 1874
- 22. "The photosphere and sunspots," *The Popular Science Monthly*, September 1874
- 23. "The transit of Venus," *The Popular Science Monthly*, December 1874
- 24. "Sources of solar heat," *The New York Daily Tribune*, March 10, 1875
- 25. "On the comparison of certain theories of solar structure with observation," from *Memorie degli Spettoscopisti Italiani*, Volume IV, December 29, 1874
- 26. "On the comparison of certain theories of solar structure with observation," with a plate, from the *American Journal of Science and Arts*, Volume IX, March 1875
- 27. "Sur la temperature relative des diverses regions du soleil, premiere partie: Les noyaux noirs des taches," *Comptes rendus*, March 22, 1875
- 28. "Sur la temperature relative des diverses regions du soleil, deuxieme partie: Region equatoriale et regions polaires," *Comptes rendus*, March 29, 1875
- 29. "Etude des radiations superficielles du soleil," *Comptes rendus*, September 6, 1875
- 30. "Man dependent on the solar atmosphere," in *Science at Detroit Meeting of the American Association for the Advancement of Science*
- 31. "The solar atmosphere," from the *American Journal of Science and Arts*, Volume X, 1875

- 32. *New York Tribune*, October 3, 1876
- 33. "Measurement of the direct effect of sun-spots on terrestrial climates," from the *Astronomical Society's Monthly Notices*, November 1876
- 34. *New York Tribune*, April 27, 1877
- 35. "The first 'popular scientific treatise,'" *The Popular Science Monthly*, 1877
- 36. "Nouvelle methode spectroscopique," *Comptes rendus*, May 21, 1877
- 37. "On the possibility of transit observations without personal error," from the *American Journal of Science and Arts*, Volume XIV, July 1877
- 38. "A proposed new method in solar spectrum analysis," from the *American Journal of Science and Arts*, Volume XIV, August 1877
- 39. "The electric time service," *Harper's*, April 1878
- 40. "New solar photographs," *The Popular Science Monthly*, April 1878
- 41. "On the Janssen solar photograph and optical studies," from the *American Journal of Science and Arts*, Volume XV, April 1878
- 42. "The other side: What Professor Langley says about the 'observatory time' contract," *Pittsburgh Gazette*, April 13, 1878
- 43. "Transit of Mercury of May 6th, 1878," from the *American Journal of Science and Arts*, Volume XV, June 1878
- [Item 44 removed to box 39, folder 4]
- "An Astronomical Letter," August 6, 1878
- 45. *Pittsburgh Gazette*, August 7, 1878
- [Item 46 removed to box 39, folder 5]
- 47. "Observations at Pike's Peak, Colorado," October 1878
- 48. "On certain remarkable groups in the lower spectrum," *Proceedings of the American Academy of Arts and Sciences*, October 7, 1878
- 49. "Electric time service," from the *Journal of the American Electrical Society*, Volume II, Number 4, 1879

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Folder 3 Collected Writings of Samuel P. Langley, Volume 1, 1869-1882:

Notes:

- 50. *Pittsburgh Post*, January 5, 1879
- 51. "The recent progress of solar physics," *The Popular Science Monthly*, November 1879
- 52. "Observations on Mount Etna," *American Journal of Science*, Volume XIX, July 1880
- 53. "Wintering on Aetna," *Atlantic Monthly*, July 1880
- 54. "The bolometer," *Proceedings of the American Meteorological Society*, December 23, 1880
- 55. "The bolometer and radiant energy," reprinted from the *Proceedings of the American Academy of Arts and Sciences*, Volume XVI, 1881

- 56. "The Actinic balance," from the *American Journal of Science*, Third Series, Volume XXI, Number 123, March 1881
- 57. "Sur la distribution de l'energie dans le spectre solaire normal," *Comptes rendus*, March 21, 1881; "Sur la distribution de l'energie dans le spectre solaire normal," *Comptes rendus*, July 18, 1881
- 58. Annual report of the Director, Allegheny Observatory, 1882
- 59. "Observations on Mt. Whitney," *The Penn Monthly*, February 1882
- 60. "La distribution de l'energie dans le spectre normal"
- 61. *Pittsburgh Dispatch*, June 17, 1882
- 62. "The Mount Whitney expedition," *Nature*, August 3, 1882
- 63. "Observations du spectre solaire," *Comptes rendus*, September 11, 1882
- 64. "Sunlight and skylight at high altitudes," *Nature*, October 12, 1882
- 65. "Sunlight and skylight at high altitudes," from the *American Journal of Science*, Volume XXIV, November 1882
- 66. "Observation of the transit of Venus 1882, December 6, made at the Allegheny Observatory," reprinted from the *Monthly Notices of the Royal Astronomical Society*, Volume XLIII, Number 3
- 67. *Pittsburgh Dispatch*, December 5, 1882
- 68. Letter to the editor of *Astronomische Nachrichten*, concerning the transit of Venus 1882, December 6

Box 8

Box 8 of 39 Photocopies of Letterpress Book from Allegheny Observatory, pages 1-352

Box 9

Box 9 of 39 Photocopies of Letterpress Book from Allegheny Observatory, pages 353-479

Box 10

Box 10 of 39 Miscellaneous correspondence, reports, articles and ephemera. Mostly concerns Langley's appointment as Assistant Secretary of the Smithsonian in 1887, but also includes materials on his aerodynamics research.

Box 10 of 39 Notices and Reviews of Works by Langley

Box 10 of 39 Material relating to Langley as made available to Mr. White for preparation of his "tribute" published in Smithsonian publications

Box 10 of 39	Publications by Langley and List of Books Read by Langley
Box 10 of 39	Lecture on Air by Langley
Box 10 of 39	The Internal Work of the Wind by Langley
Box 11	
Box 11 of 39	Publications and Articles (3 folders)
Box 11 of 39	Newspaper Clippings
Box 11 of 39	Publications and Articles (4 folders)
Box 12	
Box 12 of 39	Publications and Articles (4 folders)
Box 12 of 39	Newspaper Clippings Concerning Langley
Box 13	
Box 13 of 39	Program for Dinner given by the American Railway Guild in Honor of the Permanent Commission of the International Railway Congress, 1905
Box 13 of 39	Constitution and By-Laws of the Metropolitan Club, 1904
Box 13 of 39	Diary of "O & F" Work for Smithsonian, 1899
Box 13 of 39	Diary of "O & F" Work for Smithsonian, 1900
Box 13 of 39	Diary of "O & F" Work for Smithsonian, 1901-1902
Box 14	
Box 14 of 39	Notebooks. Includes G. B. Wells, "O & F" Account, 1900; Address Book for Langley (kept by G. B. Wells), 1900; and Notebook of Expenses, 1900; Appointment Book, 1905.
Box 14 of 39	The Strollers Constitution and By-Laws
Box 14 of 39	Diary, 1889-1891
Box 14 of 39	Diary, 1891-1892
Box 14 of 39	Diary, 1893
Box 14 of 39	Diary, 1893-1894

Box 14 of 39 Diary, 1895

Box 14 of 39 Diary, 1900

Box 15

Box 15 of 39 Diary, 1893

Box 15 of 39 Diary, 1897

Box 15 of 39 Diary, 1899

Box 15 of 39 Diary, 1900

Box 15 of 39 Diary, 1898

Box 16

Box 16 of 39 Diary, 1901

Box 16 of 39 Diary, 1902

Box 16 of 39 Diary, 1903

Box 16 of 39 Diary, 1904

Box 16 of 39 Diary, 1905

Box 17

Box 17 of 39 Newspaper Clippings Regarding Langley's Death, 1906

Box 17 of 39 Correspondence, 1906. Some of these letters were written by Samuel P. Langley shortly before his death. Most correspondence is between John W. Langley with the Smithsonian concerning Langley's effects.

Box 17 of 39 Langley Memorial Remarks and Correspondence

Box 17 of 39 Langley Memorial Remarks and Lists of Invited Guests

Box 18

Box 18 of 39 Spectrum Reports, 1898 (4 folders)

Box 19

Box 19 of 39 Personal correspondence, 1889-1897

Box 19 of 39	Personal correspondence, 1890
Box 19 of 39	Personal correspondence, 1882-1898. Much of this concerns Langley's experiments.
Box 19 of 39	Personal correspondence, 1886-1889
Box 19 of 39	Correspondence concerning the Estate of William Thaw, 1891
Box 19 of 39	Personal correspondence, 1895. Copy book of outgoing correspondence.
Box 19 of 39	Account Book, 1888-1906
Box 19 of 39	Personal correspondence, 1866-1869
Box 20	
Box 20 of 39	Outgoing correspondence, 1904-1906
Box 20 of 39	Outgoing correspondence, 1886-1893
Box 20 of 39	Outgoing correspondence, 1893-1900
Box 21	
Box 21 of 39	Card Index of People Langley Knew (3 folders)
Box 21 of 39	Invitations to Langley Memorial
Box 22	
Box 22 of 39	Unidentified Correspondence, 1889-1904
Box 22 of 39	Receipts and Experiment Charts. Appear to concern velocity and aerodynamic studies.
Box 22 of 39	Correspondence Regarding Solar Eclipse, January 1, 1889
Box 22 of 39	Private Letters on Samuel P. Langley Matters, 1906
Box 23	
Box 23 of 39	Langley Bird Research and Aeronautics Correspondence and Notes
Box 23 of 39	Langley Correspondence in reference to Aerodrome
Box 23 of 39	Langley - Data on his Aerodrome (3 folders)

Box 24

Box 24 of 39	Solar Eclipse Images (3 folders)
Box 24 of 39	Smithsonian Institution Fire (1865). Annotated envelope.
Box 24 of 39	Article on Aeronautics by O. Chanute
Box 24 of 39	1900 Solar Eclipse Expedition of the Astrophysical Observatory, 1904
Box 24 of 39	The Astrophysical Observatory by Samuel Langley, 1897

Box 25

Box 25 of 39	Yearly Time Book - Aerodrome Work, 1902
Box 25 of 39	Yearly Time Book - Aerodrome Work, 1903
Box 25 of 39	Notes and Correspondence Regarding Aerodrome Work
Box 25 of 39	Scrapbook Containing a Summary of Principal Events relating to Langley's Aerodromic Work in the Order of Dates Beginning with 1897
Box 25 of 39	Associations to which Langley Belonged
Box 25 of 39	Receipts for Letters Sent by the Secretary

Box 26

Box 26 of 39	Letters about Langley's Illness
Box 26 of 39	Letters Regarding Cyrus Adler's Biographical Sketch of Langley
Box 26 of 39	Langley's Memoirs (incomplete)
Box 26 of 39	Langley Biography
Box 26 of 39	Newspaper Clippings. Includes photographic portrait of Langley.
Box 26 of 39	Time-Service Matter
Box 26 of 39	Publication of New Astronomy
Box 26 of 39	Letters to Langley
Box 26 of 39	Cyrus Adler Correspondence Regarding Langley
Box 26 of 39	Subscriptions for Langley Portrait

Box 27

Box 27 of 39 Photocopies of Allegheny Observatory Letterpress Book, pages 329-479

Box 28

Box 28 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume I, pages 1-328

Box 29

Box 29 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume I, c. 1887-1891

Box 30

Box 30 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume II, c. 1884-1898

Box 31

Box 31 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume III, pages 2-417

Box 32

Box 32 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume II, c. 1885-1887

Box 33

Box 33 of 39 Photocopies of Allegheny Observatory Letterpress Book, Volume III, c. 1886-1887

Box 34

Box 34 of 39 Drawings and Tables Regarding Pressure Recorder

Box 35

Box 35 of 39 Langley Correspondence, 1895-1897 (Accession 91-008)

Box 35 of 39 Huffaker's Report on Whirling Table, 1895

Box 35 of 39 Experiments on Soaring Speed

Box 35 of 39 Drawing of Langley Aerodrome

Box 36

Box 36 of 39	Langley Aerodrome Photographs
Box 36 of 39	Eclipse Photographs, Wadesboro, North Carolina, May 28, 1900
Box 36 of 39	Allegheny Observatory Photographs
Box 37	
Box 37 of 39	"Wastebook" (5-512). Contains photographs (signed by T. W. [Thomas William] Smillie) and technical descriptions of Aerodromes.
Box 38	
Box 38 of 39	Wind Tunnel Data from Allegheny Observatory, 1888-1890
Box 38 of 39	Wind Tunnel Data Disks, 1888
Box 38 of 39	Wind Velocity Tests, c. 1890
Box 39	
Box 39 of 39	Folder 1 Scientific American, Volume XC, Number 10, March 5, 1904 [removed from box 10, folder 5]
Box 39 of 39	Folder 2 Harper's Weekly, August 13, 1887, pp. 581-584 [removed from box 10, folder 1]
Box 39 of 39	Folder 3 Aerodrome Diagram [removed from box 25, folder 3]
Box 39 of 39	Folder 4 44. Scientific American, July 20, 1878, pp. 33-34, 49-50; Scientific American, Volume XXXIX, Number 6, August 10, 1878, pp. 79-82 [removed from box 7, folder 2]
Box 39 of 39	Folder 5 46. Scientific American, October 19, 1878, pp. 241-244 [removed from box 7, folder 2]
Box 39 of 39	Folder 6 174. "The Langley Aerodrome," note prepared for the Conversazione of the American Institute of Electrical Engineers, New York City, April 12, 1901, from Scientific American, Supplement, Volume LIV, Number 1404, November 29, 1902 [removed from box 2, folder 5]
Box 39 of 39	Folder 7 175. "The Langley Aerodrome," from Scientific American, Supplement, Volume LIV, Number 1405, December 6, 1902 [removed from box 2, folder 5]
Box 39 of 39	Folder 8 Newspaper Clippings, 1903-1904, 1909 [removed from box 11, folder 4]

Box 39 of 39

Folder 9 "Langley Aeroplane, Ten Years, Buried, Flies; May Contest Wright Priority," New York Herald, May 29, 1914 [removed from box 11]

Oversize

Oversize Folder 1 Propeller Hub Technical Drawing
Notes:

- Balloon Experiment Drawing
- O&F Account Cyanotype
- Aerodrome Exhibition Poster

Oversize Folder 2 Placard Describing Langley's Aircraft (possibly used in an exhibit)
Notes:

- Mechanical Drawings (4 on linen, 1 cyanotype, 1 paper)
- Chalk Drawing of Sun/Eclipse/Solar Corona (possibly by Langley)
- Gouache Drawings of Sunspots (?)
- "Official Secretarial Portrait (photographic) of Langley"

Oversize Folder 3 Charts Showing Location of Houseboat, Flight Paths

Oversize Folder 4 "Lunar Halo and Meteor Observed at Fort Dodge, Iowa," January 20, 1885
Notes:

- "Configuration of the Heavens at the Death of President James A. Garfield," September 19, 1881
- "Nativity Chart of James A. Garfield" and "Configuration of the Heavens at the Birth of Howard B. Hess," 1882

Oversize Folder 5 "Annual Eclipse of the Sun," June 15, 1885

Oversize Folder 6 "Graphs on Linen Draft Paper - Plate II," c. 1880s

Oversize Folder 7 "Sifting Train," 1888

Oversize Folder 8 Diagram of Screen Used in Spectrometer - "Energy and Vision"

Oversize Folder 9 "Birthplace of the Airplane in Washington," The Sunday Star, August 30, 1942 [removed from box 11, folder 4]

Oversize Folder 10 "Will Read Our Future in Sun Spots," The World, March 15, 1903 [removed from box 11, folder 4]

Oversize Folder 11 "Curtiss Flies in Langley's Airship," The Washington Times, May 28, 1914 [removed from box 11, folder 4]

Oversize Folder 12 "Langley's Progress Towards Human Flight," The Philadelphia Press, December 13, 1896 [removed from box 11, folder 4]