SMITHSONIAN MISCELLANEOUS COLLECTIONS.

LIST

OF

PUBLICATIONS

OF THE

SMITHSONIAN INSTITUTION,

JULY, 1877.

WASHINGTON, D.C.: JULY, 1877.
The present catalogue is intended to embrace all the articles published by the Smithsonian Institution since its organization in 1846 to the first of July, 1877, a period of more than thirty years. For the first few years nothing was issued but pamphlets explanatory of the plan of the Institution, and brief annual reports of the proceedings of the Regents, and it was not until after 1849 that the following regular series were established, viz:—

1st. A quarto series entitled "Smithsonian Contributions to Knowledge," issued in volumes, each generally embracing several articles.

2d. An octavo series, entitled "Smithsonian Miscellaneous Collections," also issued in volumes, each embracing one or more separate articles.

3d. Another octavo series, consisting of the Annual Reports of the Institution to Congress, called "Smithsonian Reports," and printed at the expense of the government.

The Smithsonian Contributions to Knowledge include memoirs embracing the records of extended original investigations and researches resulting in what are believed to be new truths, and constituting positive additions to the sum of human knowledge, to the production of which the Institution has in some way rendered assistance.

The series of Smithsonian Miscellaneous Collections is designed to contain reports on the present state of our knowledge of particular branches of science; instructions for collecting and digesting facts and materials for research; lists and synopses of species of the organic and inorganic world; museum catalogues; reports of explorations; aids to bibliographical investigations, etc., generally prepared at the express request of the Institution, and at its expense. The position of a work in one or the other of these two series will sometimes depend upon whether the required illustra-
tions can be presented more conveniently in the quarto or the octavo form.

The Annual Reports are presented to Congress, and printed at its expense, copies being given to the Institution for distribution. They consist of the reports of the Secretary to the Board of Regents of the operations and condition of the Institution; the reports of committees of the Board; reports of lectures; extracts from correspondence; original or translated articles relating to the history and progress of science, etc. Over the typography and general mechanical execution, as well as the number of copies of the Smithsonian Annual Reports, the Institution has no control.

In the first experiments of the Smithsonian system of publication, the proper magnitude of the editions necessary to meet the immediate and future demand could not be accurately ascertained. The number of copies of the Contributions then fixed upon, has since been found inadequate, although it was larger than that usually issued by other institutions. The edition has, therefore, been augmented, until at the present time 1000 copies of each article are set aside to be combined into volumes, and an extra number, varying with the probable demand, from 500 to 1500, struck off for separate distribution, and for sale.

Each article is complete in itself, with separate paging, title, and index, and without any necessary relationship to others combined with it in the same volume.

Of the first volumes of Smithsonian Contributions, the edition, for reasons already explained, was less than of the succeeding ones, so that complete sets cannot now be furnished. A considerable number of the earlier articles in octavo were out of print before the commencement of the series of "Miscellaneous Collections," and consequently are not included in them.

The regular series of volumes of Smithsonian Annual Reports begins with that for 1853, those for previous years being pamphlets now out of print. The essential portion of their contents is, however, given in the volume for 1853, so as to present a complete summary of the history of the operations of the Institution from its commencement.

The rules governing the distribution of the Smithsonian publications are appended. To enable institutions not coming within their provisos, as well as individuals, to procure copies of such as may be desired, a small number is set aside, and sold by the Institution, or its agents, at the prices affixed, which are intended merely to cover the actual cost of their publication. They may be obtained

Works not priced in the following list are to be considered as out of print, and not to be supplied.

JOSEPH HENRY,
Secretary S. I.

Smithsonian Institution,
Washington, July, 1877.

RULES FOR DISTRIBUTION.

TO INSTITUTIONS.

The publications of the Smithsonian Institution are furnished:—
1st. To Learned Societies of the first class, which present complete series of their publications to the Institution.
2d. To Libraries of the first class, which give in exchange their catalogues and other publications; or an equivalent, from their duplicate volumes.
3d. To Colleges of the first class, which furnish catalogues of their libraries and of their students, and all other publications relative to their organization and history.
4th. To Public Libraries containing 15,000 volumes.
5th. To Public Libraries containing less than 15,000 volumes, where a large district would be otherwise unsupplied.
6th. Institutions devoted exclusively to the promotion of particular branches of knowledge may receive such Smithsonian publications as relate to their respective objects.

TO INDIVIDUALS.

The distribution to individuals, of the publications of the Institution, is restricted:—
1st. To those who are engaged in original research in the branch of science to which the book asked for pertains, or to whom it is necessary in the business of instruction.
2d. To donors to the Museum or Library of the Institution.
## CONTENTS.

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advertisement</td>
<td>iii</td>
</tr>
<tr>
<td>Rules for Distribution of the Publications</td>
<td>v</td>
</tr>
<tr>
<td>List of Smithsonian Publications in numerical order</td>
<td>1</td>
</tr>
<tr>
<td>Systematic List of titles of Smithsonian Publications</td>
<td>15</td>
</tr>
<tr>
<td>Contents of Smithsonian Contributions, Vols. I to XXI</td>
<td>15</td>
</tr>
<tr>
<td>Contents of Miscellaneous Collections, Vols. I to XII</td>
<td>20</td>
</tr>
<tr>
<td>List of Annual Reports, 1 to 31</td>
<td>23</td>
</tr>
<tr>
<td>Systematic Index to Smithsonian Contributions to Knowledge and Miscellaneous Collections</td>
<td>25</td>
</tr>
<tr>
<td>Alphabetical Index to Smithsonian Contributions and Miscellaneous Collections</td>
<td>33</td>
</tr>
<tr>
<td>List of Articles in the Appendix to the Annual Reports, 1847-1876 inclusive</td>
<td>43</td>
</tr>
</tbody>
</table>
LIST
OF
PUBLICATIONS OF THE SMITHSONIAN INSTITUTION,

To July, 1877.

Where no price is affixed the work cannot be furnished, it being out of print or not yet published.

Publications marked * do not appear in the Contributions, Collections, or Reports.

<table>
<thead>
<tr>
<th>No.</th>
<th>Author</th>
<th>Title</th>
<th>Pages</th>
<th>Date</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>Journal of Regents</td>
<td>8vo.*</td>
<td>32</td>
<td>1846</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>Report of Organization Committee</td>
<td>8vo.*</td>
<td>32</td>
<td>1847</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>Digest of Act of Congress</td>
<td>8vo.*</td>
<td>8</td>
<td>1847</td>
</tr>
<tr>
<td>D</td>
<td>Dallas, G. M.</td>
<td>Address at Laying Corner Stone</td>
<td>8vo *</td>
<td>8</td>
<td>1847</td>
</tr>
<tr>
<td>E</td>
<td>Henry, Jos.</td>
<td>Exposition of Bequest</td>
<td>8vo.*</td>
<td>8</td>
<td>1847</td>
</tr>
<tr>
<td>F</td>
<td></td>
<td>First Report of Secretary</td>
<td>8vo.*</td>
<td>48</td>
<td>1848</td>
</tr>
<tr>
<td>G</td>
<td></td>
<td>Report of the Institution</td>
<td>8vo.*</td>
<td>38</td>
<td>1847</td>
</tr>
<tr>
<td>H</td>
<td></td>
<td>Second Report of Institution</td>
<td>8vo.*</td>
<td>208</td>
<td>1848</td>
</tr>
<tr>
<td>I</td>
<td></td>
<td>Third Report of Institution</td>
<td>8vo.*</td>
<td>64</td>
<td>1849</td>
</tr>
<tr>
<td>J</td>
<td></td>
<td>Programme of Organization</td>
<td>4to. *</td>
<td>4</td>
<td>1847</td>
</tr>
<tr>
<td>K</td>
<td></td>
<td>Correspondence, Squier &amp; Davis</td>
<td>8vo.*</td>
<td>8</td>
<td>1848</td>
</tr>
<tr>
<td>L</td>
<td></td>
<td>First Report of Organization Committee</td>
<td>8vo.*</td>
<td>8</td>
<td>1846</td>
</tr>
<tr>
<td>M</td>
<td></td>
<td>Reports of Institution up to Jan. 1849</td>
<td>8vo.*</td>
<td>72</td>
<td>1849</td>
</tr>
<tr>
<td>N</td>
<td></td>
<td>Officers, Regents, Act, &amp;c.</td>
<td>8vo.*</td>
<td>14</td>
<td>1846</td>
</tr>
<tr>
<td>O</td>
<td></td>
<td>Act to establish Smithsonian Institution</td>
<td>8vo.*</td>
<td>8</td>
<td>1846</td>
</tr>
<tr>
<td>P</td>
<td>Owen, R. D.</td>
<td>Hints on Public Architecture</td>
<td>4to. *</td>
<td>140</td>
<td>1849</td>
</tr>
<tr>
<td>Q</td>
<td></td>
<td>Check List of Periodicals</td>
<td>4to. *</td>
<td>28</td>
<td>1853</td>
</tr>
<tr>
<td>1</td>
<td>Squier &amp; Davis</td>
<td>Ancient Monuments of Mississippi Valley</td>
<td>S. C. t</td>
<td>346</td>
<td>1847</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. t</td>
<td>346</td>
<td>1848</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------------</td>
<td>-----------------------------------------------</td>
<td>-------</td>
<td>---------</td>
<td>-------</td>
</tr>
<tr>
<td>3</td>
<td>Walker, S. C.</td>
<td>Researches, Planet Neptune</td>
<td>S. C. 11,</td>
<td>60</td>
<td>1850</td>
</tr>
<tr>
<td>4</td>
<td>Walker, S. C.</td>
<td>Ephemeris of Neptune for 1848,</td>
<td>S. C. 11,</td>
<td>8</td>
<td>1849</td>
</tr>
<tr>
<td>6</td>
<td>Walker, S. C.</td>
<td>Ephemeris of Neptune for 1850,</td>
<td>S. C. 11,</td>
<td>10</td>
<td>1850</td>
</tr>
<tr>
<td>7</td>
<td>Walker, S. C.</td>
<td>Ephemeris of Neptune for 1851,</td>
<td>S. C. 11,</td>
<td>10</td>
<td>1850</td>
</tr>
<tr>
<td>8</td>
<td>Downes, John</td>
<td>Occultations in 1848,</td>
<td>4to.*</td>
<td>12</td>
<td>1848</td>
</tr>
<tr>
<td>9</td>
<td>Downes, John</td>
<td>Occultations in 1849,</td>
<td>4to.*</td>
<td>24</td>
<td>1848</td>
</tr>
<tr>
<td>10</td>
<td>Downes, John</td>
<td>Occultations in 1850,</td>
<td>4to.*</td>
<td>26</td>
<td>1849</td>
</tr>
<tr>
<td>11</td>
<td>Downes, John</td>
<td>Occultations in 1851,</td>
<td>S. C. 11,</td>
<td>26</td>
<td>1850</td>
</tr>
<tr>
<td>12</td>
<td>Lieber, Francis</td>
<td>Vocal Sounds of L. Bridgeman,</td>
<td>S. C. 11,</td>
<td>32</td>
<td>1850</td>
</tr>
<tr>
<td>13</td>
<td>Ellet, Charles</td>
<td>Physical Geography of U. S.</td>
<td>S. C. 11,</td>
<td>64</td>
<td>1850</td>
</tr>
<tr>
<td>14</td>
<td>Gibbes, R. W.</td>
<td>Memoir on Mosasaurus,</td>
<td>S. C. 11,</td>
<td>14</td>
<td>1850</td>
</tr>
<tr>
<td>15</td>
<td>Squier, E. G.</td>
<td>Aboriginal Monuments of N. Y.</td>
<td>S. C. 11,</td>
<td>188</td>
<td>1850</td>
</tr>
<tr>
<td>16</td>
<td>Agassiz, Louis</td>
<td>Classification of Insects,</td>
<td>S. C. 11,</td>
<td>28</td>
<td>1850</td>
</tr>
<tr>
<td>17</td>
<td>Hare, Robert</td>
<td>Explosiveness of Nitre,</td>
<td>S. C. 11,</td>
<td>20</td>
<td>1850</td>
</tr>
<tr>
<td>18</td>
<td>Gould, Jr., B. A.</td>
<td>Discovery of Neptune,</td>
<td>8vo.*</td>
<td>56</td>
<td>1850</td>
</tr>
<tr>
<td>19</td>
<td>Guyot, A.</td>
<td>Directions for Meteorological Observations,</td>
<td>8vo.*</td>
<td>40</td>
<td>1850</td>
</tr>
<tr>
<td>20</td>
<td>Bailey, J. W.</td>
<td>Microscopic Examination of Soundings,</td>
<td>S. C. 11,</td>
<td>16</td>
<td>1851</td>
</tr>
<tr>
<td>21</td>
<td>............</td>
<td>Annual Report of Smithsonian Institution for 1849</td>
<td>8vo.</td>
<td>272</td>
<td>1850</td>
</tr>
<tr>
<td>22</td>
<td>Gray, Asa</td>
<td>Plantæ Wrightianæ,</td>
<td>S. C. 111,</td>
<td>146</td>
<td>1852</td>
</tr>
<tr>
<td>23</td>
<td>Bailey, J. W.</td>
<td>Microscopic Observations in S. Carolina, Georgia, and Florida,</td>
<td>S. C. 11,</td>
<td>48</td>
<td>1851</td>
</tr>
<tr>
<td>24</td>
<td>Walker, S. C.</td>
<td>Ephemeris of Neptune, 1852, Appendix I,</td>
<td>S. C. 111,</td>
<td>10</td>
<td>1853</td>
</tr>
<tr>
<td>25</td>
<td>Jewett, Chas. C.</td>
<td>Public Libraries of United States,</td>
<td>8vo.*</td>
<td>210</td>
<td>1851</td>
</tr>
<tr>
<td>26</td>
<td>............</td>
<td>Smithsonian Contributions to Knowledge,</td>
<td>S. C. 11,</td>
<td>434</td>
<td>1851</td>
</tr>
<tr>
<td>27</td>
<td>Booth, J. C. and Mortft, C.</td>
<td>Improvements in Chemical Arts,</td>
<td>M. C. 11,</td>
<td>216</td>
<td>1852</td>
</tr>
<tr>
<td>28</td>
<td>............</td>
<td>Annual Report of Smithsonian Institution for 1850,</td>
<td>8vo.</td>
<td>326</td>
<td>1851</td>
</tr>
<tr>
<td>29</td>
<td>Downes, John</td>
<td>Occultations in 1852,</td>
<td>S. C. 111,</td>
<td>34</td>
<td>1851</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------</td>
<td>-------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>30</td>
<td>Girard, Charles</td>
<td>Fresh-Water Fishes of N. America</td>
<td>S. C. III,</td>
<td>80</td>
<td>1851</td>
</tr>
<tr>
<td>31</td>
<td>Guyot, A.</td>
<td>Meteorological Tables,</td>
<td>M. C. I,</td>
<td>212</td>
<td>1852</td>
</tr>
<tr>
<td>33</td>
<td>Davis, Chas. H.</td>
<td>Law of Deposit of Flood Tide,</td>
<td>S. C. III,</td>
<td>14</td>
<td>1852</td>
</tr>
<tr>
<td>34</td>
<td>Locke, John</td>
<td>Directions for Collecting Specimens,</td>
<td>M. C. II,</td>
<td>40</td>
<td>1850 free</td>
</tr>
<tr>
<td>36</td>
<td>Whittlesey, Ch.</td>
<td>Researches on Electrical Rheiometry,</td>
<td>S. C. III,</td>
<td>60</td>
<td>1852</td>
</tr>
<tr>
<td>37</td>
<td>Smith, R.</td>
<td>Ancient Works in Ohio,</td>
<td>S. C. III,</td>
<td>20</td>
<td>1851</td>
</tr>
<tr>
<td>38</td>
<td>Leidy, Joseph</td>
<td>Smithsonian Contributions to Knowledge,</td>
<td>S. C. III,</td>
<td>564</td>
<td>1852</td>
</tr>
<tr>
<td>40</td>
<td>Leidy, Joseph</td>
<td>Extinct American Ox,</td>
<td>S. C. V,</td>
<td>20</td>
<td>1852</td>
</tr>
<tr>
<td>41</td>
<td>Gray, Asa</td>
<td>Planteæ Wrightianæ. Part II,</td>
<td>S. C. V,</td>
<td>120</td>
<td>1853</td>
</tr>
<tr>
<td>42</td>
<td>Harvey, Wm. H.</td>
<td>Marine Algæ of North America. Part II,</td>
<td>S. C. V,</td>
<td>262</td>
<td>1853 10.00</td>
</tr>
<tr>
<td>43</td>
<td>Leidy, Joseph</td>
<td>Flora and Fauna within Living Animals,</td>
<td>S. C. V,</td>
<td>68</td>
<td>1853</td>
</tr>
<tr>
<td>44</td>
<td>Wyman, Jeffries</td>
<td>Anatomy of Rana Pipiens,</td>
<td>S. C. V,</td>
<td>52</td>
<td>1853</td>
</tr>
<tr>
<td>45</td>
<td>Torrey, John</td>
<td>Plantæ Fremontianæ,</td>
<td>S. C. VI,</td>
<td>24</td>
<td>1853</td>
</tr>
<tr>
<td>46</td>
<td>Jewett, Chas. C.</td>
<td>Construction of Catalogues of Libraries,</td>
<td>Svo.*,</td>
<td>108</td>
<td>1853</td>
</tr>
<tr>
<td>47</td>
<td>Girard, Charles</td>
<td>Bibliotheca Americana Historio Naturalis,</td>
<td>Svo.*,</td>
<td>68</td>
<td>1852</td>
</tr>
<tr>
<td>48</td>
<td>Baird, S. F. and Girard C.</td>
<td>Catalogue of Serpents,</td>
<td>M. C. II,</td>
<td>188</td>
<td>1853</td>
</tr>
<tr>
<td>49</td>
<td>Stimpson, Wm.</td>
<td>Marine Invertebrata of Gr. Manan</td>
<td>S. C. VI,</td>
<td>68</td>
<td>1853</td>
</tr>
<tr>
<td>50</td>
<td>Coffin, Jas. H.</td>
<td>Annual Report of Smithsonian Institution for 1851,</td>
<td>Svo.</td>
<td>164</td>
<td>1852</td>
</tr>
<tr>
<td>51</td>
<td>Stanley, J. M.</td>
<td>Winds of the Northern Hemisphere,</td>
<td>S. C. VI,</td>
<td>200</td>
<td>1853</td>
</tr>
<tr>
<td>52</td>
<td>Downes, John</td>
<td>Occultations in 1853,</td>
<td>S. C. VI,</td>
<td>76</td>
<td>1852</td>
</tr>
<tr>
<td>53</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------</td>
<td>------------------------------------------------------------</td>
<td>-------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>55</td>
<td>Leidy, Joseph</td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. v</td>
<td>538</td>
<td>1853</td>
</tr>
<tr>
<td>56</td>
<td>Leidy, Joseph</td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. vi</td>
<td>476</td>
<td>1854</td>
</tr>
<tr>
<td>57</td>
<td>Leidy, Joseph</td>
<td>Annual Report of Smithsonian Institution for 1852</td>
<td>Svo.</td>
<td>96</td>
<td>1853</td>
</tr>
<tr>
<td>58</td>
<td>Leidy, Joseph</td>
<td>Ancient Fauna of Nebraska</td>
<td>S. C. vi</td>
<td>126</td>
<td>1853</td>
</tr>
<tr>
<td>59</td>
<td>Chappelsmith, J.</td>
<td>Tornado in Indiana</td>
<td>S. C. vii</td>
<td>12</td>
<td>1855</td>
</tr>
<tr>
<td>60</td>
<td>Torrey, John</td>
<td>Batis Maritima</td>
<td>S. C. vi</td>
<td>8</td>
<td>1855</td>
</tr>
<tr>
<td>61</td>
<td>Torrey, John</td>
<td>Darlingtonia Californica</td>
<td>S. C. vi</td>
<td>8</td>
<td>1855</td>
</tr>
<tr>
<td>62</td>
<td>Melsheimer, F. E.</td>
<td>Catalogue of Coleoptera</td>
<td>Svo.*</td>
<td>190</td>
<td>1853</td>
</tr>
<tr>
<td>63</td>
<td>Bailey, J. W.</td>
<td>New Species of Microscopic Organisms</td>
<td>S. C. vii</td>
<td>16</td>
<td>1854</td>
</tr>
<tr>
<td>64</td>
<td>Leidy, Joseph</td>
<td>List of American Correspondents of Smithsonian Institution</td>
<td>Svo.*</td>
<td>16</td>
<td>1853</td>
</tr>
<tr>
<td>65</td>
<td>Leidy, Joseph</td>
<td>Registry of Period. Phenomena</td>
<td>S. C. vi</td>
<td>4</td>
<td>1854</td>
</tr>
<tr>
<td>66</td>
<td>Leidy, Joseph</td>
<td>Annual Report of Smithsonian Institution for 1853</td>
<td>Svo.</td>
<td>310</td>
<td>1854</td>
</tr>
<tr>
<td>67</td>
<td>Mitchell, B. R. &amp;</td>
<td>Vocabularv of Jargon of Oregon</td>
<td>Svo.*</td>
<td>22</td>
<td>1853</td>
</tr>
<tr>
<td>68</td>
<td>Turner, W. W.</td>
<td>List of Foreign Correspondents of Smithsonian Institution</td>
<td>Svo.*</td>
<td>16</td>
<td>1853</td>
</tr>
<tr>
<td>69</td>
<td>Lapham, I. A.</td>
<td>Antiquities of Wisconsin</td>
<td>S. C. vii</td>
<td>108</td>
<td>1855</td>
</tr>
<tr>
<td>70</td>
<td>Haven, S. F.</td>
<td>Archaeology of the United States</td>
<td>S. C. viii</td>
<td>172</td>
<td>1856</td>
</tr>
<tr>
<td>71</td>
<td>Leidy, Joseph</td>
<td>Extinct Sloth Tribe of N. America</td>
<td>S. C. vii</td>
<td>70</td>
<td>1855</td>
</tr>
<tr>
<td>72</td>
<td>Leidy, Joseph</td>
<td>Publications of Societies in Smithsonian Library</td>
<td>S. C. vii</td>
<td>40</td>
<td>1855</td>
</tr>
<tr>
<td>73</td>
<td>Leidy, Joseph</td>
<td>Catalogue of Smithsonian Publications</td>
<td>S. C. vii</td>
<td>52</td>
<td>1855</td>
</tr>
<tr>
<td>74</td>
<td>Leidy, Joseph</td>
<td>Annual Report of Smithsonian Institution for 1854</td>
<td>Svo.</td>
<td>464</td>
<td>1855</td>
</tr>
<tr>
<td>75</td>
<td>Leidy, Joseph</td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. vii</td>
<td>252</td>
<td>1855</td>
</tr>
<tr>
<td>76</td>
<td>Leidy, Joseph</td>
<td>Annual Report of Smithsonian Institution for 1855</td>
<td>Svo.</td>
<td>446</td>
<td>1855</td>
</tr>
<tr>
<td>77</td>
<td>Leidy, Joseph</td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. viii</td>
<td>556</td>
<td>1856</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>----------------</td>
<td>------------------------------------------------------------------------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>79</td>
<td>Runkle, John D.</td>
<td>Tables for Planetary Motion,</td>
<td>S. C. IX</td>
<td>64</td>
<td>1856</td>
</tr>
<tr>
<td>80</td>
<td>Alvord, Benj.</td>
<td>Tangencies of Circles and Spheres,</td>
<td>S. C. VIII</td>
<td>16</td>
<td>1856</td>
</tr>
<tr>
<td>81</td>
<td>Olmsted, D.</td>
<td>Secular Period of Aurora Borealis,</td>
<td>S. C. VIII</td>
<td>52</td>
<td>1856</td>
</tr>
<tr>
<td>82</td>
<td>Jones, Joseph</td>
<td>Investigation on A. Vertebrata,</td>
<td>S. C. VIII</td>
<td>130</td>
<td>1856</td>
</tr>
<tr>
<td>83</td>
<td>Meech, L. W.</td>
<td>Relative Intensity of Heat and Light of the Sun,</td>
<td>S. C. IX</td>
<td>58</td>
<td>1856</td>
</tr>
<tr>
<td>84</td>
<td>Force, Peter</td>
<td>Auroral Phenomena in North Latitudes,</td>
<td>S. C. VIII</td>
<td>122</td>
<td>1856</td>
</tr>
<tr>
<td>85</td>
<td></td>
<td>Publications of Societies in Smithsonian Library. Part II,</td>
<td>S. C. VIII</td>
<td>38</td>
<td>1856</td>
</tr>
<tr>
<td>86</td>
<td>Mayer, Brantz</td>
<td>Mexican History and Archaeology,</td>
<td>S. C. IX</td>
<td>36</td>
<td>1856</td>
</tr>
<tr>
<td>87</td>
<td>Coffin, Jas. H.</td>
<td>Psychrometrical Tables,</td>
<td>M. C. I</td>
<td>20</td>
<td>1856</td>
</tr>
<tr>
<td>88</td>
<td>Gibbs, W. and</td>
<td>Ammonia Cobalt Bases,</td>
<td>S. C. IX</td>
<td>72</td>
<td>1856</td>
</tr>
<tr>
<td></td>
<td>Genth, F. A.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90</td>
<td>Hitchcock, E.</td>
<td>Illustrations of Surface Geology,</td>
<td>S. C. IX</td>
<td>164</td>
<td>1857</td>
</tr>
<tr>
<td>91</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1856,</td>
<td>Svo.</td>
<td>408</td>
<td>1857</td>
</tr>
<tr>
<td>92</td>
<td></td>
<td>Smithsonian Contributions to Knowledge,</td>
<td>S. C. IX</td>
<td>482</td>
<td>1857</td>
</tr>
<tr>
<td>93</td>
<td></td>
<td>Meteorological Observations for 1855,</td>
<td>Svo. *</td>
<td>118</td>
<td>1857</td>
</tr>
<tr>
<td>94</td>
<td>Runkle, John D.</td>
<td>Asteroid Supplement to New Tables for $\frac{1}{S}$,</td>
<td>S. C. IX</td>
<td>72</td>
<td>1857</td>
</tr>
<tr>
<td>95</td>
<td>Harvey, Wm. H.</td>
<td>Marine Algae of North America, Part III,</td>
<td>S. C. X</td>
<td>142</td>
<td>1858</td>
</tr>
<tr>
<td>96</td>
<td>Harvey, Wm. H.</td>
<td>Marine Algae of North America, 3 parts complete,</td>
<td>4to.</td>
<td>568</td>
<td>1858</td>
</tr>
<tr>
<td>97</td>
<td>Kane, E. K.</td>
<td>Magnetic Observations in the Arctic Seas,</td>
<td>S. C. X</td>
<td>72</td>
<td>1859</td>
</tr>
<tr>
<td>98</td>
<td>Bowen, T. J.</td>
<td>Yoruba Grammar and Dictionary,</td>
<td>S. C. X</td>
<td>232</td>
<td>1858</td>
</tr>
<tr>
<td>99</td>
<td></td>
<td>Smithsonian Contributions to Knowledge,</td>
<td>S. C. X</td>
<td>462</td>
<td>1858</td>
</tr>
<tr>
<td>100</td>
<td>Gillis, J. M.</td>
<td>Eclipse of the Sun, Sept. 7, 1858,</td>
<td>S. C. XI</td>
<td>22</td>
<td>1859</td>
</tr>
<tr>
<td>101</td>
<td>Hill Thos.</td>
<td>Map of Solar Eclipse, Mar. 15, '58,</td>
<td>Svo. *</td>
<td>8</td>
<td>1858</td>
</tr>
<tr>
<td>102</td>
<td>Osten Sacken, B.</td>
<td>Catalogue of Diptera of North America,</td>
<td>M. C. III</td>
<td>112</td>
<td>1858</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------------</td>
<td>-------------------------------------------------</td>
<td>-------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>103</td>
<td>Caswell, A.</td>
<td>Meteorological Observations, Providence, R. I.,</td>
<td>S. C. xii</td>
<td>188 1860</td>
<td>2.00</td>
</tr>
<tr>
<td>104</td>
<td>Kano, E. K.</td>
<td>Meteorological Observations in Arctic Seas,</td>
<td>S. C. xi</td>
<td>120 1859</td>
<td>1.25</td>
</tr>
<tr>
<td>105</td>
<td>Baird, S. F.</td>
<td>Catalogue of North American Mammals, 4to.*</td>
<td></td>
<td>22 1857</td>
<td>.50</td>
</tr>
<tr>
<td>106</td>
<td>Baird, S. F.</td>
<td>Catalogue of North American Birds, 4to.*</td>
<td></td>
<td>42 1858</td>
<td>.50</td>
</tr>
<tr>
<td>107</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1857, Svo.</td>
<td></td>
<td>438 1858</td>
<td></td>
</tr>
<tr>
<td>109</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1858, Svo.</td>
<td></td>
<td>448 1859</td>
<td></td>
</tr>
<tr>
<td>110</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1859, Svo.</td>
<td></td>
<td>450 1860</td>
<td></td>
</tr>
<tr>
<td>111</td>
<td></td>
<td>Smithsonian Contributions to Knowledge, S. C. xi</td>
<td></td>
<td>506 1859</td>
<td>12.00</td>
</tr>
<tr>
<td>112</td>
<td></td>
<td>Smithsonian Contributions to Knowledge, S. C. xii</td>
<td></td>
<td>540 1860</td>
<td>12.00</td>
</tr>
<tr>
<td>114</td>
<td>Sonntag, A.</td>
<td>Terrestrial Magnetism in Mexico, S. C. xi</td>
<td></td>
<td>92 1859</td>
<td>1.25</td>
</tr>
<tr>
<td>115</td>
<td></td>
<td>Report on Invention of Electro-Magnetic Telegraph, M. C. ii</td>
<td></td>
<td>40 1861</td>
<td>free</td>
</tr>
<tr>
<td>116</td>
<td>Rhes, Wm. J.</td>
<td>List of Public Libraries, &amp;c., Svo.*</td>
<td></td>
<td>84 1859</td>
<td></td>
</tr>
<tr>
<td>117</td>
<td></td>
<td>Catalogue of Publications, &amp;c., in Smithsonian Library, M. C. iii</td>
<td></td>
<td>264 1859</td>
<td>2.00</td>
</tr>
<tr>
<td>118</td>
<td>Morris, John G.</td>
<td>Catalogue of Lepidoptera of North America, M. C. iii</td>
<td></td>
<td>76 1860</td>
<td>1.00</td>
</tr>
<tr>
<td>119</td>
<td>Whittlesey, Ch.</td>
<td>Fluctuations of Level in N. A Lakes, S. C. xii</td>
<td></td>
<td>28 1860</td>
<td>1.00</td>
</tr>
<tr>
<td>120</td>
<td>Hildreth, S. P. and Wood, J.</td>
<td>Meteorological Observations at Marietta, O., S. C. xvi</td>
<td></td>
<td>52 1867</td>
<td>1.00</td>
</tr>
<tr>
<td>122</td>
<td></td>
<td>Smithsonian Miscellaneous Collections, M. C. i</td>
<td></td>
<td>738 1862</td>
<td></td>
</tr>
<tr>
<td>123</td>
<td></td>
<td>Smithsonian Miscellaneous Collections, M. C. ii</td>
<td></td>
<td>715 1862</td>
<td></td>
</tr>
<tr>
<td>124</td>
<td></td>
<td>Smithsonian Miscellaneous Collections, M. C. iii</td>
<td></td>
<td>772 1862</td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Author.</td>
<td>Title.</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>---------</td>
<td>--------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>125</td>
<td>........</td>
<td>Smithsonian Miscellaneous Collections,</td>
<td>M. C. iv,</td>
<td>760 1862</td>
<td></td>
</tr>
<tr>
<td>126</td>
<td>Le Conte, John L.</td>
<td>Coleoptera of Kansas and New Mexico,</td>
<td>S. C. xi,</td>
<td>64 1859</td>
<td>1.25</td>
</tr>
<tr>
<td>127</td>
<td>Loomis, E.</td>
<td>Storms in Europe and America, Dec. 1836,</td>
<td>S. C. xi,</td>
<td>28 1860</td>
<td>1.25</td>
</tr>
<tr>
<td>128</td>
<td>Lea, Carpenter, &amp;c.</td>
<td>Check List of Shells in N. America</td>
<td>M. C. vii,</td>
<td>52 1860</td>
<td>.25</td>
</tr>
<tr>
<td>129</td>
<td>Kane, E. K.</td>
<td>Astronomical Observations in the Arctic Seas,</td>
<td>S. C. xii,</td>
<td>56 1860</td>
<td>1.00</td>
</tr>
<tr>
<td>130</td>
<td>Kane, E. K.</td>
<td>Tidal Observations in the Arctic Seas,</td>
<td>S. C. xiii,</td>
<td>90 1860</td>
<td>1.50</td>
</tr>
<tr>
<td>131</td>
<td>Smith, N. D.</td>
<td>Meteorological Observations in Arkansas from 1840 to 1859,</td>
<td>S. C. xiii,</td>
<td>96 1860</td>
<td>1.25</td>
</tr>
<tr>
<td>133</td>
<td>Morris, John G.</td>
<td>Synopsis of Lepidoptera of North America. Part I,</td>
<td>M. C. iv,</td>
<td>380 1862</td>
<td>2.00</td>
</tr>
<tr>
<td>134</td>
<td>Hagen, H.</td>
<td>Synopsis of Neuroptera of North America,</td>
<td>M. C. iv,</td>
<td>368 1861</td>
<td></td>
</tr>
<tr>
<td>135</td>
<td>Mitchell, S. W.</td>
<td>Venom of the Rattlesnake,</td>
<td>S. C. xii,</td>
<td>156 1860</td>
<td>1.75</td>
</tr>
<tr>
<td>136</td>
<td>Le Conte, John L.</td>
<td>Classification of Coleoptera of North America,</td>
<td>M. C. iii,</td>
<td>312 1862</td>
<td>1.50</td>
</tr>
<tr>
<td>137</td>
<td>........</td>
<td>Circular to Officers of Hudson's Bay Co.,</td>
<td>M. C. viii,</td>
<td>6 1866</td>
<td></td>
</tr>
<tr>
<td>138</td>
<td>Morgan, L. H.</td>
<td>Circular as to Degrees of Relationship,</td>
<td>M. C. ii,</td>
<td>34 1860</td>
<td></td>
</tr>
<tr>
<td>139</td>
<td>........</td>
<td>Collecting Nests and Eggs of North American Birds,</td>
<td>M. C. ii,</td>
<td>34 1861</td>
<td>free</td>
</tr>
<tr>
<td>140</td>
<td>Le Conte, John L.</td>
<td>List of Coleoptera of North America. Part I,</td>
<td>M. C. vi,</td>
<td>82 1866</td>
<td>.75</td>
</tr>
<tr>
<td>141</td>
<td>Loew, H. and Osten Sacken</td>
<td>Monographs of Diptera. Part I,</td>
<td>M. C. vi,</td>
<td>246 1862</td>
<td>1.50</td>
</tr>
<tr>
<td>144</td>
<td>Binney, W. G.</td>
<td>Land and Fresh-Water Shells of North America. Part III,</td>
<td>M. C. vii,</td>
<td>128 1865</td>
<td>1.00</td>
</tr>
<tr>
<td>145</td>
<td>Prime, Temple</td>
<td>Monograph of American Corbiculidae,</td>
<td>M. C. vii,</td>
<td>92 1865</td>
<td>.75</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------</td>
<td>-------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>146</td>
<td>M'Clintock, Sir F. L.</td>
<td>Meteorological Observations in the Arctic Seas,</td>
<td>S. C. xiii</td>
<td>1862</td>
<td>1.50</td>
</tr>
<tr>
<td>147</td>
<td>..........</td>
<td>Annual Report of Smithsonian Institution for 1860,</td>
<td>Svo.</td>
<td>1861</td>
<td></td>
</tr>
<tr>
<td>148</td>
<td>..........</td>
<td>Directions for Meteorological Observations,</td>
<td>M. C. i</td>
<td>1860</td>
<td></td>
</tr>
<tr>
<td>149</td>
<td>..........</td>
<td>Annual Report of Smithsonian Institution for 1861,</td>
<td>Svo.</td>
<td>1862</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>..........</td>
<td>Annual Report of Smithsonian Institution for 1862,</td>
<td>Svo.</td>
<td>1863</td>
<td></td>
</tr>
<tr>
<td>151</td>
<td>..........</td>
<td>Smithsonian Contributions to Knowledge,</td>
<td>S. C. xiii</td>
<td>1863</td>
<td>12.00</td>
</tr>
<tr>
<td>152</td>
<td>Carpenter, P. P.</td>
<td>Lectures on Mollusca,</td>
<td>Svo.*</td>
<td>1861</td>
<td>1.50</td>
</tr>
<tr>
<td>153</td>
<td>Guyot, A.</td>
<td>Tables, Meteorological and Physical,</td>
<td>M. C. i</td>
<td>1859</td>
<td>3.00</td>
</tr>
<tr>
<td>154</td>
<td>..........</td>
<td>List of Foreign Correspondents of Smithsonian Institution,</td>
<td>M. C. v</td>
<td>1862</td>
<td></td>
</tr>
<tr>
<td>155</td>
<td>Whittlesey, Ch.</td>
<td>Ancient Mining on Lake Superior</td>
<td>S. C. xiii</td>
<td>1863</td>
<td>.50</td>
</tr>
<tr>
<td>156</td>
<td>Egleston, T.</td>
<td>Catalogue of Minerals,</td>
<td>M. C. vii</td>
<td>1863</td>
<td>.50</td>
</tr>
<tr>
<td>157</td>
<td>..........</td>
<td>Results of Meteorological Observations from 1854 to 1859,</td>
<td>4to.*</td>
<td>1861</td>
<td></td>
</tr>
<tr>
<td>158</td>
<td>..........</td>
<td>Smithsonian Miscellaneous Collections,</td>
<td>M. C. v</td>
<td>1864</td>
<td></td>
</tr>
<tr>
<td>159</td>
<td>Mitchell, S. W. &amp; Morehouse, G. R.</td>
<td>Anatomy and Physiology of Respiration in Chelonia,</td>
<td>S. C. xiii</td>
<td>1863</td>
<td>1.00</td>
</tr>
<tr>
<td>160</td>
<td>Gibbs, G.</td>
<td>Instructions for Ethnology and Philology,</td>
<td>M. C. vii</td>
<td>1863</td>
<td>.25</td>
</tr>
<tr>
<td>161</td>
<td>Gibbs, G.</td>
<td>Dictionary of the Chinook Jargon</td>
<td>M. C. vii</td>
<td>1863</td>
<td>.50</td>
</tr>
<tr>
<td>162</td>
<td>Bache, A. D.</td>
<td>Magnetic and Meteorological Observations at Girard Coll. Pt. IV, V, &amp; VI,</td>
<td>S. C. xiii</td>
<td>1862</td>
<td>1.00</td>
</tr>
<tr>
<td>163</td>
<td>..........</td>
<td>Circular on History of Grasshoppers,</td>
<td>M. C. ii</td>
<td>1860</td>
<td></td>
</tr>
<tr>
<td>164</td>
<td>..........</td>
<td>Smithsonian Museum Miscellaneous</td>
<td>M. C. viii</td>
<td>1862</td>
<td>.50</td>
</tr>
<tr>
<td>165</td>
<td>Allen, H.</td>
<td>Monograph of the Bats of North America,</td>
<td>M. C. vii</td>
<td>1864</td>
<td></td>
</tr>
<tr>
<td>166</td>
<td>Bache, A. D.</td>
<td>Magnetic Survey of Pennsylvania</td>
<td>S. C. xiii</td>
<td>1863</td>
<td>1.00</td>
</tr>
<tr>
<td>167</td>
<td>Le Conte, Jno. L.</td>
<td>New Species of North America Coleoptera,</td>
<td>M. C. vi</td>
<td>1866</td>
<td>1.00</td>
</tr>
<tr>
<td>168</td>
<td>..........</td>
<td>Circular Relative to Birds from Middle and South America,</td>
<td>M. C. viii</td>
<td>1863</td>
<td>free</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------</td>
<td>-----------------------------------------------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>169</td>
<td>............</td>
<td>Smithsonian Miscellaneous Collections</td>
<td>M. C. vi</td>
<td>388</td>
<td>1864</td>
</tr>
<tr>
<td>170</td>
<td>............</td>
<td>Comparatative Vocabulary</td>
<td>4to.*</td>
<td>20</td>
<td>1863</td>
</tr>
<tr>
<td>171</td>
<td>Loew, H.</td>
<td>Monograph of the Diptera of North America. Part II</td>
<td>M. C. vi</td>
<td>372</td>
<td>1864</td>
</tr>
<tr>
<td>172</td>
<td>Meek, F. B. and Hayden, F. V.</td>
<td>Paleontology of the Upper Missouri. Part I</td>
<td>S. C. xiv</td>
<td>158</td>
<td>1865</td>
</tr>
<tr>
<td>173</td>
<td>Dean, John</td>
<td>Gray Substance of the Medulla Oblongata</td>
<td>S. C. xvi</td>
<td>80</td>
<td>1864</td>
</tr>
<tr>
<td>174</td>
<td>Binney, W. G.</td>
<td>Bibliography of North American Conchology. Part II</td>
<td>M. C. ix</td>
<td>302</td>
<td>1864</td>
</tr>
<tr>
<td>175</td>
<td>Bache, A. D.</td>
<td>Mag. and Met. Observ. at Girard Coll. Parts VII, VIII, &amp; IX</td>
<td>S. C. xiv</td>
<td>72</td>
<td>1864</td>
</tr>
<tr>
<td>176</td>
<td>............</td>
<td>Circular, Collecting North American Shells</td>
<td>M. C. ii</td>
<td>4</td>
<td>1860</td>
</tr>
<tr>
<td>177</td>
<td>Meek, F. B.</td>
<td>Check List of Invertebrate Fossils of North America</td>
<td>M. C. vii</td>
<td>42</td>
<td>1864</td>
</tr>
<tr>
<td>178</td>
<td>............</td>
<td>Circular to Entomologists</td>
<td>M. C. viii</td>
<td>2</td>
<td>1860</td>
</tr>
<tr>
<td>179</td>
<td>............</td>
<td>Catalogue of Publications of Societies</td>
<td>M. C. ix</td>
<td>596</td>
<td>1866</td>
</tr>
<tr>
<td>180</td>
<td>Draper, H.</td>
<td>Construction of a Silvered Glass Telescope</td>
<td>S. C. xiv</td>
<td>60</td>
<td>1864</td>
</tr>
<tr>
<td>181</td>
<td>Baird, S. F.</td>
<td>Review of American Birds in Smithsonian Museum</td>
<td>M. C. xii</td>
<td>454</td>
<td>1866</td>
</tr>
<tr>
<td>182</td>
<td>............</td>
<td>Results of Meteorological Observations from 1854-1858. Vol. II</td>
<td>4to.*</td>
<td>546</td>
<td>1864</td>
</tr>
<tr>
<td>183</td>
<td>Meek, F. B.</td>
<td>Check List of Invertebrate Fossils of North America</td>
<td>M. C. vii</td>
<td>34</td>
<td>1864</td>
</tr>
<tr>
<td>184</td>
<td>............</td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. xiv</td>
<td>490</td>
<td>1865</td>
</tr>
<tr>
<td>185</td>
<td>............</td>
<td>List of Birds in Mexico, &amp;c.,</td>
<td>Svo.*</td>
<td>8</td>
<td>1863</td>
</tr>
<tr>
<td>186</td>
<td>Bache, A. D.</td>
<td>Mag. and Met. Observ. at Girard College. Parts X, XI, &amp; XII</td>
<td>S. C. xiv</td>
<td>42</td>
<td>1865</td>
</tr>
<tr>
<td>187</td>
<td>............</td>
<td>Annual Report of Smithsonian Institution for 1863</td>
<td>Svo.</td>
<td>420</td>
<td>1864</td>
</tr>
<tr>
<td>188</td>
<td>............</td>
<td>Annual Report of Smithsonian Institution for 1864</td>
<td>Svo.</td>
<td>450</td>
<td>1865</td>
</tr>
<tr>
<td>189</td>
<td>Scudder, S. H.</td>
<td>Catalogue of Orthoptera of North America</td>
<td>M. C. viii</td>
<td>110</td>
<td>1868</td>
</tr>
<tr>
<td>190</td>
<td>............</td>
<td>Queries Relative to Tornadoes</td>
<td>M. C. x</td>
<td>4</td>
<td>1865</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------</td>
<td>-------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>191</td>
<td></td>
<td>Smithsonian Miscellaneous Collections</td>
<td>M. C. vii, 878 1865</td>
<td></td>
<td></td>
</tr>
<tr>
<td>192</td>
<td>Leidy, Joseph</td>
<td>Cretaceous Reptiles of the U. S.</td>
<td>S. C. xiv, 142 1865</td>
<td></td>
<td></td>
</tr>
<tr>
<td>193</td>
<td></td>
<td>Duplicate Shells from Expedition of Capt. Wilkes</td>
<td>Svo.*, 4 1865</td>
<td></td>
<td></td>
</tr>
<tr>
<td>194</td>
<td>Binney, W. G &amp; Bland, T</td>
<td>Land and Fresh-Water Shells of North America. Part I</td>
<td>M. C. viii, 328 1866 2.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>195</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>196</td>
<td>Hayes, I. I.</td>
<td>Physical Observations in the Arctic Seas</td>
<td>S. C. xv, 286 1867</td>
<td></td>
<td></td>
</tr>
<tr>
<td>197</td>
<td>Whittlesey, Ch.</td>
<td>Glacial Drift of Northwestern States</td>
<td>S. C. xv, 23 1866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>198</td>
<td>Kane, E. K.</td>
<td>Physical Observations in the Arctic Seas. Complete</td>
<td>4to.*, 340 1866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>199</td>
<td>Newcomb, S.</td>
<td>Orbit of Neptune</td>
<td>S. C. xv, 116 1866 2.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>Conrad, T. A.</td>
<td>Check List of the Invertebrate Fossils of North America</td>
<td>M. C. vii, 46 1866 .25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>201</td>
<td>Stimpson, Wm.</td>
<td>Hydrobiina and Allied Forms</td>
<td>M. C. vii, 64 1866 .50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>203</td>
<td></td>
<td>List of Works published by Smithsonian Institution</td>
<td>M. C. vii, 12 1866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>204</td>
<td>Cleaveland, P.</td>
<td>Meteorological Observations, Brunswick, Me., 1807-1850</td>
<td>S. C. xvi, 60 1867 1.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>205</td>
<td></td>
<td>Circular for Archaeology and Ethnology</td>
<td>M. C. viii, 2 1867 free</td>
<td></td>
<td></td>
</tr>
<tr>
<td>206</td>
<td></td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. xv, 620 1867 12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>207</td>
<td></td>
<td>Relative to Scientific Investigations in Russian America</td>
<td>M. C. viii, 10 1867</td>
<td></td>
<td></td>
</tr>
<tr>
<td>208</td>
<td>Pickering, Chas.</td>
<td>Gliddon Mummy Case in Smithsonian Institution</td>
<td>S. C. xvi, 6 1869 .50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>209</td>
<td></td>
<td>Annual Report of the Smithsonian Institution for 1865</td>
<td>Svo. 496 1866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>210</td>
<td></td>
<td>Arrangement of Families of Birds in Smithsonian Institution</td>
<td>M. C. viii, 8 1866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>211</td>
<td></td>
<td>Smithsonian Contributions to Knowledge</td>
<td>S. C. xvi, 408 1870 12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------------</td>
<td>------------------------------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>212</td>
<td>..............</td>
<td>Smithsonian Miscellaneous Collections, M.C. VIII</td>
<td>921</td>
<td>1869</td>
<td>5.00</td>
</tr>
<tr>
<td>213</td>
<td>..............</td>
<td>Smithsonian Miscellaneous Collections, M. C. IX</td>
<td>898</td>
<td>1869</td>
<td>5.00</td>
</tr>
<tr>
<td>214</td>
<td>..............</td>
<td>Annual Report of Smithsonian Institution for 1866, Svo.</td>
<td>470</td>
<td>1867</td>
<td></td>
</tr>
<tr>
<td>215</td>
<td>..............</td>
<td>Annual Report of Smithsonian Institution for 1867, Svo.</td>
<td>506</td>
<td>1868</td>
<td></td>
</tr>
<tr>
<td>216</td>
<td>..............</td>
<td>Photograph Portraits of North American Indians, Svo.*</td>
<td>42</td>
<td>1867</td>
<td>.25</td>
</tr>
<tr>
<td>217</td>
<td>Hook, M.</td>
<td>Meteoric Shower, 1867, Nov. 13, Svo.*</td>
<td>4</td>
<td>1867</td>
<td></td>
</tr>
<tr>
<td>218</td>
<td>Morgan, L. H.</td>
<td>Systems of Consanguinity and Affinity, S. C. XVII</td>
<td>616</td>
<td>1869</td>
<td>12.00</td>
</tr>
<tr>
<td>219</td>
<td>Osten Sacken, R.</td>
<td>Monograph of Diptera of North America. Part IV, M. C. VIII</td>
<td>358</td>
<td>1869</td>
<td>2.00</td>
</tr>
<tr>
<td>220</td>
<td>Swan, Jas. G.</td>
<td>Indians of Cape Flattery, S. C. XVI</td>
<td>118</td>
<td>1869</td>
<td>2.00</td>
</tr>
<tr>
<td>221</td>
<td>Coffin, James H.</td>
<td>Orbit, &amp;c., of Meteoric Fire Ball, July 29, 1866, S. C. XVI</td>
<td>56</td>
<td>1869</td>
<td>1.00</td>
</tr>
<tr>
<td>222</td>
<td>Schott, Chas. A.</td>
<td>Tables of Rain and Snow in United States, S. C. XVIII</td>
<td>175</td>
<td>1872</td>
<td>3.00</td>
</tr>
<tr>
<td>223</td>
<td>Gould, B. A.</td>
<td>On the Transatlantic Longitude, S. C. XVI</td>
<td>110</td>
<td>1869</td>
<td>1.00</td>
</tr>
<tr>
<td>224</td>
<td>..............</td>
<td>Annual Report of Smithsonian Institution for 1868, Svo.*</td>
<td>473</td>
<td>1869</td>
<td></td>
</tr>
<tr>
<td>225</td>
<td>..............</td>
<td>List of Foreign Correspondents of Smithsonian Institution, Svo.*</td>
<td>53</td>
<td>1869</td>
<td></td>
</tr>
<tr>
<td>226</td>
<td>..............</td>
<td>List of Publications of Smithsonian Institution, Svo.</td>
<td>34</td>
<td>1869</td>
<td></td>
</tr>
<tr>
<td>227</td>
<td>Gill, Theod.</td>
<td>Families of Mollusks, M. C. X</td>
<td>49</td>
<td>1871</td>
<td>.25</td>
</tr>
<tr>
<td>228</td>
<td>..............</td>
<td>Annual Report of Smithsonian Institution for 1869, Svo.</td>
<td>450</td>
<td>1871</td>
<td>1.00</td>
</tr>
<tr>
<td>229</td>
<td>..............</td>
<td>Smithsonian Contributions to Knowledge, S. C. XVII</td>
<td>616</td>
<td>1871</td>
<td></td>
</tr>
<tr>
<td>230</td>
<td>Gill, Theod.</td>
<td>List of Families of Mammals, M. C. XI</td>
<td>104</td>
<td>1872</td>
<td>.25</td>
</tr>
<tr>
<td>231</td>
<td>..............</td>
<td>Secular Variations of Orbits of Planets, S. C. XVIII</td>
<td>220</td>
<td>1872</td>
<td>2.00</td>
</tr>
<tr>
<td>232</td>
<td>Stockwell, J. N.</td>
<td>Converging Series, Ratio of Diam. and Circum. of Circles, S. C. XVIII</td>
<td>6</td>
<td>1871</td>
<td>.50</td>
</tr>
<tr>
<td>233</td>
<td>Ferrel, Wm.</td>
<td>Circular Relative to Food Fishes, M. C. X</td>
<td>14</td>
<td>1871</td>
<td>free</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>--------------</td>
<td>-----------------------------------------------------------------------</td>
<td>-------</td>
<td>--------</td>
<td>-------</td>
</tr>
<tr>
<td>235</td>
<td>Rhees, Wm. J.</td>
<td>Circular Relative to Thunderstorms, M. C. x, 2 1871 free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>236</td>
<td></td>
<td>Circular Relative to Altitudes, M. C. x, 2 1871 free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>237</td>
<td></td>
<td>Circular Relative to Lightning-rods, M. C. x, 4 1871 free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>238</td>
<td></td>
<td>List of American Libraries, and Public Institutions, M. C. x, 256 1872 1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>239</td>
<td>Harkness, Wm.</td>
<td>Magnetic Observations on the Monadnock, S. C. xviii, 226 1872 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>240</td>
<td>Barnard, J. G.</td>
<td>Problems of Rotary Motion, S. C. xix, 74 1872 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>242</td>
<td>Clark, H. J.</td>
<td>Lucernariæ and their Allies, S. C. ... ... ...</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>243</td>
<td></td>
<td>List of Foreign Correspondents of Smithsonian Institution, M. C. x, 63 1872 25.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>244</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1870, Svo. 491 1871 1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>245</td>
<td></td>
<td>Check List of Smithsonian Publications to July, 1872, M. C. x, 21 1872 free</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>246</td>
<td></td>
<td>Smithsonian Contributions to Knowledge, S. C. xviii, 643 1872 12.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>247</td>
<td>Gill, Theod.</td>
<td>List of Families of Fishes, M. C. xi, 96 1872 25.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>248</td>
<td>Hilgard, E. W.</td>
<td>Geology of Lower Louisiana, S. C. xix, 38 1872 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>249</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1871, Svo. 473 1872</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>250</td>
<td></td>
<td>Smithsonian Miscellaneous Collections, M. C. x, 913 1873 5.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>251</td>
<td>Carpenter, P. P.</td>
<td>Monograph of Chitonidae, ... ... ...</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>252</td>
<td>Carpenter, P. P.</td>
<td>American Mollusca, M. C. x, 446 1873 1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>253</td>
<td>Tryon, G. W.</td>
<td>Monograph of Streptomatidae, M. C. xi, 490 1873 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>254</td>
<td>De Saussure, H.</td>
<td>Monograph of Hymenoptera, M. C. 430 1875 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>255</td>
<td>Clarke, F. W.</td>
<td>Specific Gravity Tables, M. C. xi, 272 1873 1.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>256</td>
<td>Loew, H.</td>
<td>Monograph Diptera. Part III, M. C. xi, 381 1873 2.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>257</td>
<td></td>
<td>... ... ... ... ...</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>258</td>
<td>Watson, S.</td>
<td>Botanical Index, M. C. ... ... ...</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>259</td>
<td>Jones, Jos.</td>
<td>Antiquities of Tennessee, S. C. 181 1876 3.00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>260</td>
<td></td>
<td>... ... ... ... ...</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------</td>
<td>-------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>261</td>
<td>Packard, A. S.</td>
<td>Directions for Collecting and Preserving Insects,</td>
<td>60</td>
<td>1873</td>
<td>free</td>
</tr>
<tr>
<td>262</td>
<td>Newcomb, S.</td>
<td>Orbit of Uranus,</td>
<td>296</td>
<td>1873</td>
<td>3.00</td>
</tr>
<tr>
<td>263</td>
<td></td>
<td>Astronomical Telegram Circular,</td>
<td>4</td>
<td>1873</td>
<td>...</td>
</tr>
<tr>
<td>264</td>
<td>LeConte, J. L.</td>
<td>New Species Coleoptera. Part II,</td>
<td>74</td>
<td>1873</td>
<td>.50</td>
</tr>
<tr>
<td>265</td>
<td>LeConte, J. L.</td>
<td>Classification Coleoptera. Part II,</td>
<td>72</td>
<td>1873</td>
<td>.50</td>
</tr>
<tr>
<td>266</td>
<td>Woodward, J. J.</td>
<td>Toner Lecture I. Cancerous Tumors</td>
<td>44</td>
<td>1873</td>
<td>.25</td>
</tr>
<tr>
<td>267</td>
<td>Swan, J. G.</td>
<td>Haidah Indians,</td>
<td>24</td>
<td>1874</td>
<td>1.00</td>
</tr>
<tr>
<td>268</td>
<td>Coffin, J. H.</td>
<td>Winds of the Globe,</td>
<td>781</td>
<td>1876</td>
<td>12.00</td>
</tr>
<tr>
<td>269</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>270</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>271</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1872,</td>
<td>450</td>
<td>1874</td>
<td>...</td>
</tr>
<tr>
<td>272</td>
<td></td>
<td>Smithsonian Contributions,</td>
<td>660</td>
<td>1874</td>
<td>12.00</td>
</tr>
<tr>
<td>273</td>
<td></td>
<td>Miscellaneous Collections,</td>
<td>789</td>
<td>1874</td>
<td>5.00</td>
</tr>
<tr>
<td>274</td>
<td></td>
<td>Miscellaneous Collections,</td>
<td>767</td>
<td>1874</td>
<td>5.00</td>
</tr>
<tr>
<td>275</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1873,</td>
<td>452</td>
<td>1874</td>
<td>1.00</td>
</tr>
<tr>
<td>276</td>
<td>Clarke, F. W.</td>
<td>Specific Heat Tables. Part II,</td>
<td>58</td>
<td>1876</td>
<td>.50</td>
</tr>
<tr>
<td>277</td>
<td>Schott, C. A.</td>
<td>Temperature Tables,</td>
<td>300</td>
<td>1876</td>
<td>3.00</td>
</tr>
<tr>
<td>278</td>
<td></td>
<td>Check List of Smithsonian Publications,</td>
<td>24</td>
<td>1874</td>
<td>...</td>
</tr>
<tr>
<td>279</td>
<td>DaCosta, J. M.</td>
<td>Toner Lecture III. The Heart,</td>
<td>32</td>
<td>1874</td>
<td>.25</td>
</tr>
<tr>
<td>280</td>
<td>Alexander, S.</td>
<td>Harmonies of Solar System,</td>
<td>104</td>
<td>1875</td>
<td>1.00</td>
</tr>
<tr>
<td>281</td>
<td>Newcomb, S.</td>
<td>Planetary Motion,</td>
<td>40</td>
<td>1874</td>
<td>.75</td>
</tr>
<tr>
<td>282</td>
<td>Wood, H. C.</td>
<td>Toner Lecture IV. Study of Fever,</td>
<td>50</td>
<td>1875</td>
<td>.25</td>
</tr>
<tr>
<td>283</td>
<td>Gill, Theod.</td>
<td>Catalogue of Fishes,</td>
<td>56</td>
<td>1875</td>
<td>.25</td>
</tr>
<tr>
<td>284</td>
<td></td>
<td>Smithsonian Contributions,</td>
<td>794</td>
<td>1876</td>
<td>12.00</td>
</tr>
<tr>
<td>285</td>
<td></td>
<td>Smithsonian Contributions,</td>
<td>543</td>
<td>1876</td>
<td>12.00</td>
</tr>
<tr>
<td>286</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1874,</td>
<td>416</td>
<td>1875</td>
<td>1.00</td>
</tr>
<tr>
<td>287</td>
<td>Rau, Charles,</td>
<td>Archaeological Collection, Nat Museum,</td>
<td>118</td>
<td>1876</td>
<td>2.00</td>
</tr>
<tr>
<td>No.</td>
<td>Author</td>
<td>Title</td>
<td>Pages</td>
<td>Date</td>
<td>Price</td>
</tr>
<tr>
<td>-----</td>
<td>----------------</td>
<td>------------------------------------------------------</td>
<td>-------</td>
<td>------</td>
<td>-------</td>
</tr>
<tr>
<td>288</td>
<td>Clarke, F. W.</td>
<td>Specific Gravity Tables. Supp. I, M. C.</td>
<td>62</td>
<td>1876</td>
<td>.50</td>
</tr>
<tr>
<td>289</td>
<td>Clarke, F. W.</td>
<td>Tables, Expansion by Heat, M. C.</td>
<td>55</td>
<td>1876</td>
<td>.50</td>
</tr>
<tr>
<td>290</td>
<td></td>
<td>List of Smithsonian Publications, Svo.</td>
<td>12</td>
<td>1876</td>
<td>...</td>
</tr>
<tr>
<td>291</td>
<td>Brown-Séquard,</td>
<td>Toner Lecture II. The Brain, M. C.</td>
<td>26</td>
<td>1877</td>
<td>.25</td>
</tr>
<tr>
<td></td>
<td>Cones, E.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and others,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>295</td>
<td>Lawrence, G. N.</td>
<td>Birds of Mexico. Bulletin Nat. Museum, No. 4, M. C.</td>
<td>56</td>
<td>1876</td>
<td>.50</td>
</tr>
<tr>
<td>297</td>
<td>Goode, G. B.</td>
<td>Classification of Animal Resources, etc. Bulletin Nat. Museum, No. 6, M. C.</td>
<td>139</td>
<td>1876</td>
<td>.50</td>
</tr>
<tr>
<td>298</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1875,</td>
<td>423</td>
<td>1876</td>
<td>1.00</td>
</tr>
<tr>
<td>299</td>
<td></td>
<td>Annual Report of Smithsonian Institution for 1876, 8vo.</td>
<td>...</td>
<td>...</td>
<td>...</td>
</tr>
<tr>
<td>300</td>
<td>Keen, W. W.</td>
<td>Toner Lecture V. Continued Fevers, M. C.</td>
<td>72</td>
<td>1877</td>
<td>.25</td>
</tr>
<tr>
<td>301</td>
<td></td>
<td>Check List of Smithsonian Publications to July, 1877, M. C.</td>
<td>...</td>
<td>1877</td>
<td>free</td>
</tr>
<tr>
<td>302</td>
<td>Adams</td>
<td>Toner Lecture VI. Subcutaneous Surgery, M. C.</td>
<td>26</td>
<td>1877</td>
<td>.25</td>
</tr>
</tbody>
</table>
SYSTEMATIC LIST OF TITLES OF SMITHSONIAN PUBLICATIONS.

(The figures and letters in parentheses refer to the number of the publication in the preceding list.)

SMITHSONIAN CONTRIBUTIONS.

SMITHSONIAN Contributions to Knowledge. Vol. I. 1848. 4to. 346 pages, 48 plates, and 207 wood-cuts. (2.)

CONTENTS.

Squier and Davis, Ancient Monuments, Mississippi Valley. (1.)

SMITHSONIAN Contributions to Knowledge. Vol. II. 1851. 4to. 464 pages, 24 plates, and 72 wood-cuts. (26.)

CONTENTS.

Walker, Researches Relative to Neptune. (3.)
Lieber, Vocal Sounds of Laura Bridgeman. (12.)
Bailey, Microscopical Soundings off Atlantic Coast. (20.)
Ellet, Physical Geography Mississippi Valley. (13.)
Gibbes, Mosasaurus and Allied Genera. (14.)
Agassiz, Classification of Insects from Embryological Data. (16.)
Hare, Explosiveness of Nitre. (17.)
Bailey, Microscopical Observations in S. Carolina, Georgia, and Florida. (23.)
Squier, Aboriginal Monuments of State of New York. (15.)
Walker, Ephemeris of Neptune for 1848. (4.)
Walker, Ephemeris of Neptune for 1850. (6.)
Walker, Ephemeris of Neptune for 1851. (7.)
Downes, Occultations visible in the United States in 1851. (11.)

SMITHSONIAN Contributions to Knowledge. Vol. III. 1852. 4to. 564 pages, and 35 plates. (38.)

CONTENTS.

Locke, Terrestrial Magnetism. (35.)
Secchi, Electrical Rheometry. (36.)
Girard, Monograph of the Cottoids. (30.)
Harvey, Marine Algae of North America. Part I.—Melanospermeae. (32.)
Gray, Plantae Wrightianae Texano-Neo-Mexicanae. Part I. (22.)
Davis, Law of Deposit of the Flood Tide. (33.)
LIST OF SMITHSONIAN PUBLICATIONS.

Whittlesey, Descriptions of Ancient Works in Ohio. (37.)

Walker, Ephemeris of the Planet Neptune for 1852. (24.)

Downes, Occultations visible in United States during 1852. (29.)

Smithsonian Contributions to Knowledge. Vol. IV.
1852. 4to. 426 pages. (39.)

Contents.

Riggs, Dakota Grammar and Dictionary. (40.)

Smithsonian Contributions to Knowledge. Vol. V.
1853. 4to. 538 pages, 45 plates, and 4 wood-cuts. (55.)

Contents.

Leidy, Flora and Fauna within Living Animals. (44.)

Leidy, Extinct Species of American Ox. (41.)

Wyma, Anatomy of the Nervous System of Rana pipiens. (45.)

Harvey, Marine Algæ of North America. Part II.—Rhodospermæ. (43.)

Gray, Plantaæ Wrightianæ. Part II. (42.)

Smithsonian Contributions to Knowledge. Vol. VI.
1854. 4to. 476 pages, 53 plates, and 8 wood-cuts. (56.)

Contents.

Torrey, Plantaæ Frémontianæ. (46.)

Torrey, Batis maritima. (60.)

Torrey, Darlingtonia Californica. (61.)

Stimpson, Marine Invertebrata of Grand Manan. (50.)

Coffin, Winds of the Northern Hemisphere. (52.)

Leidy, Ancient Fauna of Nebraska. (58.)

Downes, Occultations during the year 1853. (54.)

Smithsonian Contributions to Knowledge. Vol. VII.
1855. 4to. 252 pages, 74 plates, and 70 wood-cuts. (76.)

Contents.

Chappelsmith, Tornado near New Harmony, Indiana. (59.)

Bailey, New Species and Localities of Microscopic Organisms. (63.)

Lapham, Antiquities of Wisconsin. (70.)

Leidy, Extinct Sloth Tribe of North America. (72.)

Publications of Societies and Periodicals in Smithsonian Library. Part I. (73.)

Smithsonian Contributions to Knowledge. Vol. VIII.
1856. 4to. 556 pages, 9 plates, and 59 wood-cuts. (78.)

Contents.

Haven, Archaeology of the United States. (71.)

Olmsted, Recent Secular Period of Aurora Borealis. (81.)
LIST OF SMITHSONIAN PUBLICATIONS.

Alvord, Tangencies of Circles and of Spheres. (80.)
Jones, Chemical and Physiological Investigations relative to Vertebrata. (82.)
Force, Auroral Phenomena in Higher Northern Latitudes. (84.)
Publications of Societies and Periodicals in Smithsonian Library. Pt. II. (85.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. IX.
1857. 4to. 482 pages, 22 plates, and 42 wood-cuts. (92.)

CONTENTS.
Meech, Intensity of Heat and Light of Sun upon different Latitudes. (83.)
Hitchcock, Illustrations of Surface Geology. (90.)
Mayer, Mexican History and Archaeology, and Zapotec Remains. (86.)
Gibbs and Genth, Researches on Ammonia-cobalt Bases. (88.)
Runkle, New Tables, Planetary Motion. (79.)
Runkle, Asteroid Supplement to New Tables. (94.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. X.
1858. 4to. 462 pages, 17 plates, and 1 wood-cut. (99.)

CONTENTS.
Harvey, Marine Algæ. Part III.—Chlorospermæ. (95.)
Kane, Magnetic Observations in the Arctic Seas. (97.)
Bowen, Grammar and Dictionary of the Yoruba Language. (98.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XI.
1859. 4to. 506 pages, 23 plates, and 17 wood-cuts. (111.)

CONTENTS.
Brewer, North American Oology. Part I. Raptores and Fissirostres. (89.)
Gilliss, Total Eclipse of the Sun, in Peru, September 7, 1858. (100.)
Bache, Magnetic and Meteorological Observations. Part I. (113.)
Kane, Meteorological Observations in the Arctic seas. (114.)
LeConte, Coleoptera of Kansas and Eastern New Mexico. (126.)
Sonntag, Observations on Terrestrial Magnetism in Mexico. (114.)
Loomis, On certain Storms in Europe and America, December, 1836. (127.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XII.
1860. 4to. 540 pages, 3 plates, and 15 wood-cuts. (112.)

CONTENTS.
Kane, Astronomical Observations in the Arctic Seas. (129.)
Whittlesey, Fluctuations of Level in North American Lakes. (119.)
Caswell, Meteorological Observations at Providence, R. I., 28½ years. (103.)
Smith, Meteorological Observations near Washington, Ark., 20 years. (131.)
Mitchell, Researches upon Venom of the Rattlesnake. (135.)
LIST OF SMITHSONIAN PUBLICATIONS.

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XIII.
1863. 4to. 558 pages, 7 plates, and 68 wood-cuts. (151.)

CONTENTS.
Kane, Tidal Observations, Arctic Seas. (130.)
McClellan, Meteorological Observations, Arctic Seas. (146.)
Whittlesey, Ancient Mining on the shores of Lake Superior. (155.)
Bache, Discussion, Girard College Observations. Part II. (121.)
Bache, Discussion, Girard College Observations. Part III. (132.)
Bache, Discussion, Girard College Observations. Parts IV, V, VI. (162.)
Bache, Magnetic Survey of Pennsylvania, etc. (166.)
Mitchell and Morehouse, Researches upon Anatomy and Physiology of Chelonia. (169.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XIV.
1865. 4to. 490 pages, 25 plates, and 142 wood-cuts. (184.)

CONTENTS.
Bache, Discussion, Girard College Observations. Parts VII, VIII, IX. (175.)
Bache, Discussion, Girard College Observations. Parts X, XI, XII. (186.)
Draper, Construction of Silvered Glass Telescope and its use in Celestial Photography. (180.)
Meek and Hayden, Palaeontology of the Upper Missouri. (172.)
Leidy, Cretaceous Reptiles of the United States. (192.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XV.
1867. 4to. 620 pages, 17 plates, and 43 wood-cuts. (206.)

CONTENTS.
Newcomb, Orbit of Neptune. (199.)
Whittlesey, Fresh-water Glacial Drift of Northwestern States. (197.)
Pumpelly, Geological Researches in China, Mongolia, and Japan. (202.)
Hayes, Physical Observations in the Arctic Seas. (196.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. XVI.
1870. 4to. 498 pages, 19 plates, and 73 wood-cuts. (211.)

CONTENTS.
Dean, Gray Substance of the Medulla oblongata and Trapezium. (173.)
Cleaveland, Meteorological Observations, Brunswick, Maine, 53 years. (204.)
Hildreth, Meteorological Observations, Marietta, O. (120.)
Pickering, Glidden Mummy Case. (278.)
Coffin, Orbit and Phenomena of a Meteoric Fire Ball. (221.)
Gold, Transatlantic Longitude. (223.)
Swan, Indians of Cape Flattery. (220.)
LIST OF SMITHSONIAN PUBLICATIONS.

Smithsonian Contributions to Knowledge. Vol. XVII.
1871. 4to. 616 pages, 14 plates, and 5 wood-cuts. (229.)

CONTENTS.
Morgan, Systems of Consanguinity and Affinity of the Human Family. (218.)

Smithsonian Contributions to Knowledge. Vol. XVIII.
1873. 4to. 643 pages, 8 plates, and 10 wood-cuts. (246.)

CONTENTS.
Schott, Tables of Rain and Snow. (222.)
Stockwell, Secular Variations of the Orbits of Planets. (223.)
Harkness, Observations on Terrestrial Magnetism. (233.)
Ferrel, Converging Series, expressing the Ratio between the Diameter and the Circumference of a Circle. (233.)

Smithsonian Contributions to Knowledge. Vol. XIX.
1874. 4to. 660 pages, 21 plates, and 5 wood-cuts. (272.)

CONTENTS.
Barnard, Problems of Rotary Motion. (240.)
Wood, Fresh-water Algae of North America. (241.)
Newcomb, Orbit of Uranus. (262.)

Smithsonian Contributions to Knowledge. Vol. XX.
1876. 4to. 794 pages, 26 plates, and 3 wood-cuts. (284.)

CONTENTS.
Coffin, The Winds of the Globe. (288.)

Smithsonian Contributions to Knowledge. Vol. XXI.
1876. 4to. 543 pages, 10 plates, and 29 wood-cuts. (285.)

CONTENTS.
Alexander, Harmonies of the Solar System. (280.)
Newcomb, Integrals of Planetary Motion. (281.)
Swan, Haidah Indians of Queen Charlotte's Islands, British Columbia. (287.)
Schott, Tables, Atmospheric Temperature in United States. (277.)
MISCELLANEOUS COLLECTIONS.

Smithsonian Miscellaneous Collections. Vol. I. 1862. 8vo. 738 pages.

CONTENTS.
Directions for Meteorological Observations. (19.) (148.)
Coffin, Psychrometrical Tables. (87.)
Guyot, Meteorological and Physical Tables. (31.) (153.)

Smithsonian Miscellaneous Collections. Vol. II. 1862. 8vo. 715 pages.

CONTENTS.
Booth and Morfit, Recent Improvements in Chemical Arts. (27.)
Proceedings Board of Regents in Relation to the invention of the Electro-magnetic Telegraph. (115.)
Stanley, Catalogue of Portraits of North American Indians. (53.)
Baird and Girard, Catalogue of North American Reptiles; Serpents. (49.)
Check-list of Shells of North America. (128.)
Directions for Collecting specimens of Natural History. (34.)
Circular to Officers of Hudson's Bay Company. (137.)
Instructions for Collecting Nests and Eggs. (139.)
Circular relative to North American Grasshoppers. (163.)
Circular relative to North American Shells. (176.)
Morgan, Circular respecting Systems of Relationship. (138.)

Smithsonian Miscellaneous Collections. Vol. III. 1862. 8vo. 772 pages.

CONTENTS.
Osten Sacken, Catalogue of Diptera of North America. (102.)
Morris, Catalogue of described Lepidoptera of North America. (118.)
LeConte, Classification of Coleoptera. Part I. (136.)
Catalogue of Publications of Societies in Smithsonian Library. 1858. (117.)

Smithsonian Miscellaneous Collections. Vol. IV. 1862. 8vo. 760 pages.

CONTENTS.
Hagen, Synopsis of North American Neuroptera. (134.)
Morris, Synopsis of North America Lepidoptera. (133.)
LIST OF SMITHSONIAN PUBLICATIONS.

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. V.
1864. 8vo. 774 pages.  (158.)

CONTENTS.
Binney, Bibliography of North American Conchology.  (142.)
Catalogue of Publications of the Smithsonian Institution to June, 1862.  (74.)
List of Foreign Correspondents of the Smithsonian Institution to January, 1862.  (154.)

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. VI.
1867. 8vo. 888 pages, 2 plates, and 3 wood-cuts.  (169.)

CONTENTS.
Loew, Monograph of Diptera. Part I.  (141.)
Loew, Monograph of Diptera. Part II.  (171.)
LeConte, List of Coleoptera of North America.  (140.)
LeConte, New Species of North American Coleoptera.  (167.)

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. VII.
1867. 8vo. 878 pages, 676 wood-cuts.  (191.)

CONTENTS.
Allen, Monograph of Bats of North America.  (165.)
Binney, Land and Fresh-water Shells of North America. Part II.  (143.)
Binney, Land and Fresh-water Shells of North America. Part III.  (144.)
Stimpson, Researches upon Hydrobiine.  (201.)
Prime, Monograph of American Corbiculad.  (145.)
Conrad, Check-list of Fossils: Eocene and Oligocene.  (200.)
Meek, Check-list of Fossils: Miocene.  (156.)
Meek, Check-list of Fossils: Cretaceous and Jurassic.  (177.)
Egleston, Catalogue of Minerals.  (156.)
Gibbs, Dictionary of Chinook Jargon.  (161.)
Gibbs, Instructions for Ethnological and Philological Research.  (160.)
List of Works Published by the Smithsonian Institution to Jan. 1866.  (203.)

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. VIII.
1869. 8vo. 921 pages, 4 plates, and 551 wood-cuts.  (212.)

CONTENTS.
Osten Sacken, Monograph of the Diptera of North America. Part IV.  (219.)
Scudder, Catalogue of the Orthoptera of North America.  (189.)
Binney and Bland, Land and Fresh-water Shells of N. A. Part I.  (194.)
Baird, Arrangement of Families of Birds.  (210.)
Henry, Circular to Officers of the Hudson's Bay Company.  (137.)
Henry, Gibbs, and Baird, Suggestions relative to Scientific Investigation in Russian America.  (207.)
Henry, Circular relative to Archeology and Ethnology.  (205.)
Henry, Circular to Entomologists.  (178.)
Henry, Circular relative to Collections of Birds from Middle and South America. (168.)

Baird, Smithsonian Museum Miscellanea. (194.)

**Smithsonian Miscellaneous Collections. Vol. IX.**

1869. 8vo. 898 pages.

**Contents.**

Binney, Bibliography of North America Conchology, Foreign Authors. Part II. (174.)

Catalogue of Publications of Societies and of Periodicals in Smithsonian Library, 1866. (179.)

**Smithsonian Miscellaneous Collections. Vol. X.**

1873. 8vo. 913 pages, one wood-cut.

**Contents.**

Carpenter, Mollusks of Western North America. (252.)

Gill, Arrangement of the Families of Mollusks. (227.)

Henry, Instructions for Observations of Thunder Storms. (235.)

Henry, Circular relative to Altitudes. (293.)

Henry, Directions for constructing Lightning Rods. (237.)

Henry, Queries relative to Tornadoes. (190.)

Baird, Questions relative to the Food Fishes of the United States. (234.)

Baird, Memoranda of Inquiry relative to Food Fishes. (234.)

Rhees, List of Institutions, etc., in the United States, in Correspondence with the Smithsonian Institution. (238.)

List of Foreign Correspondents of the S. I. for 1872. (243.)

Check List of Publications of the S. I., 1872. (245.)

**Smithsonian Miscellaneous Collections. Vol. XI.**

1874. 8vo. 789 pages, 3 plates, and 55 wood-cuts.

**Contents.**

Gill, Arrangement of the Families of Mammals. (230.)

Gill, Arrangement of the Families of Fishes. (247.)

Loew, Monograph of the Diptera of North America. Part III. (236.)

Packard, Directions for Collecting and Preserving Insects. (261.)

Le Conte, New Species of North American Coleoptera. Part II. (294.)

Le Conte, Classification of the Coleoptera of North America. Part II. (265.)

**Smithsonian Miscellaneous Collections. Vol. XII.**

1874. 8vo. 767 pages, 81 wood-cuts.

**Contents.**


Henry, Telegraphic Announcements of Astronomical Discoveries. (263.)
<table>
<thead>
<tr>
<th>Annual Report Smithsonian Institution</th>
<th>Pages</th>
<th>Woodcuts</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1st) for 1846</td>
<td>38</td>
<td></td>
<td>(G)</td>
</tr>
<tr>
<td>(2nd) for 1847</td>
<td>208</td>
<td></td>
<td>(H)</td>
</tr>
<tr>
<td>(3rd) for 1848</td>
<td>64</td>
<td></td>
<td>(I)</td>
</tr>
<tr>
<td>(4th) for 1849</td>
<td>208</td>
<td></td>
<td>(21)</td>
</tr>
<tr>
<td>(5th) for 1850</td>
<td>326</td>
<td></td>
<td>(28)</td>
</tr>
<tr>
<td>(6th) for 1851</td>
<td>105</td>
<td></td>
<td>(51)</td>
</tr>
<tr>
<td>(7th) for 1852</td>
<td>96</td>
<td></td>
<td>(57)</td>
</tr>
<tr>
<td>(First of bound series.) (8th) for 1853</td>
<td>310</td>
<td></td>
<td>(67)</td>
</tr>
<tr>
<td>(9th) for 1854</td>
<td>464</td>
<td>4</td>
<td>(75)</td>
</tr>
<tr>
<td>(10th) for 1855</td>
<td>438</td>
<td>78</td>
<td>(77)</td>
</tr>
<tr>
<td>(11th) for 1856</td>
<td>468</td>
<td>70</td>
<td>(91)</td>
</tr>
<tr>
<td>(12th) for 1857</td>
<td>438</td>
<td>95</td>
<td>(107)</td>
</tr>
<tr>
<td>(13th) for 1858</td>
<td>450</td>
<td>47</td>
<td>(109)</td>
</tr>
<tr>
<td>(14th) for 1859</td>
<td>448</td>
<td>54</td>
<td>(110)</td>
</tr>
<tr>
<td>(15th) for 1860</td>
<td>448</td>
<td>73</td>
<td>(147)</td>
</tr>
<tr>
<td>(16th) for 1861</td>
<td>463</td>
<td>25</td>
<td>(149)</td>
</tr>
<tr>
<td>(17th) for 1862</td>
<td>446</td>
<td>93</td>
<td>(150)</td>
</tr>
<tr>
<td>(18th) for 1863</td>
<td>419</td>
<td>56</td>
<td>(187)</td>
</tr>
<tr>
<td>(19th) for 1864</td>
<td>450</td>
<td>50</td>
<td>(188)</td>
</tr>
<tr>
<td>(20th) for 1865</td>
<td>496</td>
<td>137</td>
<td>(209)</td>
</tr>
<tr>
<td>(21st) for 1866</td>
<td>469</td>
<td>69</td>
<td>(214)</td>
</tr>
<tr>
<td>(22d) for 1867</td>
<td>506</td>
<td>9</td>
<td>(215)</td>
</tr>
<tr>
<td>(23d) for 1868</td>
<td>473</td>
<td>40</td>
<td>(224)</td>
</tr>
<tr>
<td>(24th) for 1869</td>
<td>430</td>
<td>34</td>
<td>(228)</td>
</tr>
<tr>
<td>(25th) for 1870</td>
<td>494</td>
<td>34</td>
<td>(244)</td>
</tr>
<tr>
<td>(26th) for 1871</td>
<td>473</td>
<td>3</td>
<td>(249)</td>
</tr>
<tr>
<td>(27th) for 1872</td>
<td>456</td>
<td>110</td>
<td>(271)</td>
</tr>
<tr>
<td>(28th) for 1873</td>
<td>452</td>
<td>33</td>
<td>(275)</td>
</tr>
<tr>
<td>(29th) for 1874</td>
<td>416</td>
<td>36</td>
<td>(286)</td>
</tr>
<tr>
<td>(30th) for 1875</td>
<td>422</td>
<td>310</td>
<td>(298)</td>
</tr>
</tbody>
</table>
SYSTEMATIC INDEX

TO

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE AND MISCELLANEOUS COLLECTIONS.

ANATOMY, PHYSIOLOGY, MEDICINE, AND SURGERY.

Adams, subcutaneous surgery .................................................. 302
Brown-Sequard, have we two brains? .......................................... 291
DaCosta, the heart ...................................................................... 279
Dean, medulla oblongata ............................................................... 173
Jones, chemical and physiological investigations.......................... 82
Keen, continued fevers ................................................................. 300
Leidy, flora and fauna within living animals ................................. 44
Mitchell, venom of rattlesnake ..................................................... 135
Mitchell and Morehouse, chelonia ............................................... 159
Wood, study of fever ................................................................. 282
Woodward, cancerous tumors ...................................................... 266
Wyman, rana pipiens ................................................................ 45

ARCHITECTURE.

Owen, hints on public architecture ............................................. P

ASTRONOMY.

Alexander, harmonies of the solar system .................................... 280
Annular eclipse 1854 .................................................................... 66
Astronomical telegram circular ................................................. 263
Davis, flood tide .......................................................................... 33
Downes, occultations 1848 .......................................................... 8
" " 1849 .............................................................................. 9
" " 1850 ............................................................................ 10
" " 1851 ............................................................................ 11
" " 1852 ............................................................................ 29
" " 1853 ............................................................................ 54
Gilliss, solar eclipse, Peru ............................................................ 100
Gould, history of Neptune ......................................................... 18
" transatlantic longitude .............................................................. 223
Hayes, arctic observations ......................................................... 196
Hill, map solar eclipse ................................................................. 101
Kase, astronomical observations arctic seas ............................... 129
" tidal observations arctic seas ................................................... 130

( 25 )
**LIST OF SMITHSONIAN PUBLICATIONS.**

Newcomb, integrals of planetary motion . . . . . . 281
  " orbit of Neptune . . . . . . 189
  " " Uranus . . . . . . 2 2
Runkle, planetary tables . . . . . . 79
  " " supplement . . . . . . 94
Steckwell, orbits of planets . . . . . . 232
Walker, researches Neptune . . . . . . 3
  " ephemeris Neptune, 1848 . . . . . . 4
  " " 1795-1849 . . . . . . 5
  " " 1850 . . . . . . 6
  " " 1851 . . . . . . 7
  " " 1852 . . . . . . 24

**BIBLIOGRAPHY.**

Binney, bibliography conchology, part I . . . . . . 142
  " " II . . . . . . 174
Girard, bibliography natural history, 1851 . . . . . . 48
Jewett, catalogue system . . . . . . 47
  " public libraries . . . . . . 25
List of publications Smithsonian Institution 74, 203, 226, 245, 278, 290, 301
  " Smithsonian exchanges, part I . . . . . . 73
  " " II . . . . . . 85
  " " to 1858 . . . . . . 117
Publications learned societies in library Smithsonian Institution, 1866 179
Rhees, public libraries . . . . . . 116, 238

**BOTANY.**

Gray, Plantæ Wrightianæ, I . . . . . . 22
  " " II . . . . . . 42
Harvey, North American marine algae, I . . . . . . 32
  " " II . . . . . . 43
  " " III . . . . . . 95
  " " complete . . . . . . 96
Register periodical phenomena . . . . . . 65, 148
Torrey, Latis maritima . . . . . . 60
  " Darlingtonia Californica . . . . . . 61
  " Plantæ Frémontiana . . . . . . 46
Watson, botanical index . . . . . . 258
Wood, fresh-water algae . . . . . . 241

**CHEMISTRY, PHYSICS, AND TECHNOLOGY.**

Booth and Morfit, chemical arts . . . . . . 27
Clarke, expansion tables . . . . . . 289
  " specific gravity tables . . . . . . 235
  " " 1st supplement . . . . . . 288
  " " heat tables . . . . . . 278
Gibbs and Genth, ammonia-cobalt bases . . . . . . 88
Hare, explosiveness of nitre . . . . . . 17

**ELECTRICITY.** See Magnetism.
### List of Smithsonian Publications

**Ethnology and Philology.**

- Bowen, Yoruba grammar and dictionary ........................................... 98
- Circular archaeology ........................................................................ 205
- Gibbs, Chinook jargon ...................................................................... 161
  - " comparative vocabulary .......................................................... 170
  - " ethnological instructions ......................................................... 160
- Haven, American archaeology .......................................................... 71
- Jones, antiquities of Tennessee ......................................................... 259
- Lapham, antiquities of Wisconsin ...................................................... 70
- Lieber, vocal sounds Laura Bridgeman .............................................. 12
- Mayer, Mexican archaeology ............................................................. 86
- Mitchell, vocabulary of jargon ......................................................... 68
- Morgan, relationship circular ............................................................ 158
  - " systems of consanguinity ......................................................... 218
- Photographic portraits of Indians ...................................................... 216
- Pickering, Gliddon mummy case ....................................................... 208
- Rap, archaeological collections in Smithsonian Institution ............... 287
- Riggs, Dakota grammar and dictionary .............................................. 40
- Squier and Davis, ancient monuments, Mississippi valley ................. 1
  - " aboriginal monuments, New York ............................................. 15
- Stanley, Indian portraits ................................................................... 53
- Swan, Indians of Cape Flattery ......................................................... 220
  - " Haidah Indians .......................................................................... 207
- Whittlesey, ancient mining, Lake Superior ......................................... 155
  - " ancient works, Ohio ................................................................. 37

**General Natural History and Zoology.**

- Circular for collecting birds ........................................................... 168
  - " " " eggs ...................................................................................... 139
  - " " " grasshoppers ................................................................. 163
  - " " " shells .................................................................................. 176
  - " " observations in Russian America ........................................... 207
  - " " to officers of the Hudson's Bay Co. ...................................... 137
  - " " entomologists ....................................................................... 178
- Directions for collecting and preserving specimens ......................... 34, 139, 201
- Goode, classification of animal resources ......................................... 297
- Leidy, flora and fauna within animals ............................................. 44
- Museum miscellanea, numbers, labels, etc. ........................................ 164
- Packard, directions for collecting insects ......................................... 261
- Register, periodical phenomena ....................................................... 65, 148

**General Zoology.** See General Natural History.

**Geology and Physical Geography.**

- Ellet, physical geography, Mississippi valley .................................... 13
- Hayes, observations arctic seas ......................................................... 196
- Hilgard, geology of lower Louisiana .................................................. 248
- Hitchcock, surface geology ............................................................... 90
- Kake, observations arctic seas .......................................................... 104
LIST OF SMITHSONIAN PUBLICATIONS.

Pumpelly, geology of China, Mongolia, and Japan . . . 202
Whittlesey, fluctuations of lakes ... 119
" glacial drift . . . 197

MAGNETISM AND ELECTRICITY.
Bache, magnetic discussion, part I . . . 113
" " " part II . . . 121
" " " part III . . . 132
" " " parts IV to VI . . . 162
" " " parts VII to IX . . . 175
" " " parts X to XII . . . 186
Bache, magnetic survey of Pennsylvania . . . 166
Gould, transatlantic longitude . . . 223
Harkness, magnetic observations on the iron-clad Monadnock . 239
Hayes, arctic observations . . . 196
Henry, electro-magnetic telegraph . . . 115
Kane, arctic observations . . . 97
Locke, terrestrial magnetism, United States . . . 35
Sonntag, terrestrial magnetism, Mexico . . . 114

MATHEMATICS.
Alvord, tangencies of circles . . . 80
Ferrel, converging series . . . 233

MEDICINE. See Anatomy, etc.

METEOROLOGY.
Caswell, observations, Providence, Rhode Island . . . 103
Chappelsmith, tornado . . . 59
Circular, altitudes . . . 236
" lightning rods . . . 237
" thunder-storms . . . 235
" tornadoes . . . 190
Cleaveland, observations, Brunswick, Maine . . . 204
Coffin, meteoric fire-ball . . . 221
" psychrometrical tables . . . 87
" winds, northern hemisphere . . . 52
" winds of the globe . . . 268
Directions for meteorological observations . . . 19, 148
Force, record of auroras . . . 84
Guyot, meteorological directions . . . 19, 148
" " and physical tables . . . 31, 153
Hayes, arctic observations . . . 196
Hildreth, observations, Marietta, Ohio . . . 120
Kane, arctic observations . . . 104
Loomis, storms . . . 127
McClimtock, arctic observations . . . 146
Meech, intensity sun's heat . . . 83
Meteorological observations, 1855 . . . 93
" results, 1854-59, vol. 1. . . 157
" " " vol. 2. . . 182
LIST OF SMITHSONIAN PUBLICATIONS.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meteors, November</td>
<td>.</td>
<td>217</td>
</tr>
<tr>
<td>Olmsted, aurora</td>
<td>.</td>
<td>81</td>
</tr>
<tr>
<td>Periodical phenomena, register</td>
<td>.</td>
<td>65, 148</td>
</tr>
<tr>
<td>Schott, tables of rain and snow in the United States</td>
<td>.</td>
<td>222</td>
</tr>
<tr>
<td></td>
<td>tables of temperature .</td>
<td>277</td>
</tr>
<tr>
<td>Smith, observations, Washington, Arkansas</td>
<td>.</td>
<td>131</td>
</tr>
</tbody>
</table>

MICROSCOPY.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bailey</td>
<td>microscopic observations, southern States .</td>
<td>23</td>
</tr>
<tr>
<td></td>
<td>&quot; new microscopic organisms .</td>
<td>63</td>
</tr>
<tr>
<td></td>
<td>&quot; soundings, coast survey .</td>
<td>20</td>
</tr>
<tr>
<td>Dean</td>
<td>medulla oblongata .</td>
<td>173</td>
</tr>
<tr>
<td>Leidy</td>
<td>flora and fauna within living animals .</td>
<td>44</td>
</tr>
<tr>
<td>Woodward</td>
<td>cancerous tumors .</td>
<td>266</td>
</tr>
</tbody>
</table>

MINERALOGY.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Egleston</td>
<td>catalogue of minerals .</td>
<td>156</td>
</tr>
</tbody>
</table>

MISCELLANEOUS.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address, corner-stone</td>
<td>.</td>
<td>D</td>
</tr>
<tr>
<td>Circular, altitudes</td>
<td>.</td>
<td>236</td>
</tr>
<tr>
<td></td>
<td>&quot; lightning rods .</td>
<td>237</td>
</tr>
<tr>
<td>Classification of animal resources</td>
<td>.</td>
<td>297</td>
</tr>
<tr>
<td>Correspondence Squier and Davis</td>
<td>.</td>
<td>K</td>
</tr>
<tr>
<td>Digest of act of Congress relative to Smithsonian Institution</td>
<td>.</td>
<td>C</td>
</tr>
<tr>
<td>Exposition, Smithon's bequest</td>
<td>.</td>
<td>E</td>
</tr>
<tr>
<td>Hudson's bay circular</td>
<td>.</td>
<td>137</td>
</tr>
<tr>
<td>List domestic institutions</td>
<td>.</td>
<td>63, 238</td>
</tr>
<tr>
<td>&quot; foreign &quot;</td>
<td>.</td>
<td>64, 154, 225, 243</td>
</tr>
<tr>
<td>Proceedings, regents, 1846</td>
<td>.</td>
<td>A</td>
</tr>
<tr>
<td>Programme of organization</td>
<td>.</td>
<td>J</td>
</tr>
<tr>
<td>Register periodical phenomena</td>
<td>.</td>
<td>65, 148</td>
</tr>
<tr>
<td>Report of committee on organization</td>
<td>.</td>
<td>B, L</td>
</tr>
<tr>
<td>Russian America circular</td>
<td>.</td>
<td>207</td>
</tr>
</tbody>
</table>

PALEONTOLOGY.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conrad</td>
<td>eocene fossils .</td>
<td>200</td>
</tr>
<tr>
<td>Gibbes</td>
<td>mosasaurus .</td>
<td>14</td>
</tr>
<tr>
<td>Leidy</td>
<td>ancient fauna, Nebraska .</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td>&quot; cretaceous reptiles .</td>
<td>192</td>
</tr>
<tr>
<td></td>
<td>&quot; extinct sloths .</td>
<td>72</td>
</tr>
<tr>
<td></td>
<td>&quot; fossil ox .</td>
<td>41</td>
</tr>
<tr>
<td>Meek</td>
<td>cretaceous and jurassic fossils .</td>
<td>177</td>
</tr>
<tr>
<td></td>
<td>&quot; miocene fossils .</td>
<td>177</td>
</tr>
<tr>
<td></td>
<td>&quot; and Hayden, palaeontology, Nebraska .</td>
<td>172</td>
</tr>
</tbody>
</table>

PHYSICS.

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnard</td>
<td>problems of rotary motion .</td>
<td>240</td>
</tr>
<tr>
<td>Draper</td>
<td>telescope in photography .</td>
<td>180</td>
</tr>
<tr>
<td>Gould</td>
<td>transatlantic longitude .</td>
<td>223</td>
</tr>
<tr>
<td>Guyot</td>
<td>physical and meteorological tables .</td>
<td>31, 153</td>
</tr>
</tbody>
</table>
### List of Smithsonian Publications

<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Henry, electro-magnetic telegraph</td>
<td></td>
<td>115</td>
</tr>
<tr>
<td>Meech, heat and light of the sun</td>
<td></td>
<td>83</td>
</tr>
<tr>
<td>Sekuni, electrical rheometry</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

**Zoology.** See also General Natural History.

#### General

- **Goode,** classification of animal resources  | 297 |
- **Kidder and others,** natural history of Kerguelen Island | 294 |
- **Stimpson,** marine invertebrata, Grand Manan | 50 |
- **Streets,** natural history of Hawaiian and Fanning Islands, etc. | 303 |

#### Birds

- **Baird,** arrangement of birds | 210 |
- " catalogue, birds, 4to. | 106 |
- " " svo. | 108 |
- " review of birds, part I | 181 |
- **Brewer,** North American oology, part I | 59 |
- **Circular,** birds of South America | 108 |
- Desiderata of birds of Mexico, Central America, etc. | 155 |
- **Kidder and Coues,** birds of Kerguelen Island | 293 |
- **Lawrence,** birds of Mexico | 295 |

#### Fishes

- **Baird,** circular relative to food fishes | 234 |
- **Gill,** catalogue of fishes | 283 |
- " list of families of fishes | 247 |
- **Girard,** monograph, cottooids | 30 |
- **Goode,** fishes of Bermuda | 296 |
- **Jordan,** notes on Rafinesque's memoirs, North American fishes | 305 |

#### Insects

- **Agassiz,** classification of insects | 16 |
- **Coleoptera,** Le Conte, classification, part I | 136 |
- " " Kansas, part II | 265 |
- " " list | 126 |
- " " new species, part I | 140 |
- " " part II | 167 |
- " Melsheimer, catalogue | 264 |
- **Diptera,** Loew, monograph, part I | 141 |
- " " part II | 171 |
- " " part III | 256 |
- " Osten Sacken, monograph, part IV | 219 |
- " catalogue | 102 |
- **Hymenoptera,** De Saussure, monograph | 254 |
- **Lepidoptera,** Morris, catalogue | 118 |
- " " synopsis | 133 |
- **Neuroptera,** Hagen, synopsis | 134 |
- **Orthoptera,** Scudder, catalogue | 189 |
- **Packard,** directions for collecting insects | 261 |
LIST OF SMITHSONIAN PUBLICATIONS.

Mammals.

Allen, monograph North American bats .................................................. 165
Baird, catalogue mammals ........................................................................... 105
Gill, list of families of mammals .................................................................. 230

Radiates.

Clark, lucternariae .......................................................................................... 242

Reptiles.

Baird and Girard, catalogue of serpents ....................................................... 49
Cope, North American batrachia and reptilia ............................................... 292
Mitchell and Morehouse, chelonia ................................................................. 159

Shells.

Binney, bibliography North American conchology, part I ......................... 142
“ “ “ “part II .............................................................................................. 174
“ “ land and fresh-water shells, part I ............................................................ 194
“ “ “ “ part II .............................................................................................. 143
“ “ “ “ part III ............................................................................................ 144
Carpenter, American mollusca ....................................................................... 252
“ chitonidae .................................................................................................. 251
“ lectures on mollusca ................................................................................... 152
Check list of shells ....................................................................................... 128
Circular for collecting shells ......................................................................... 176
Dall, index of names applied to brachiopoda .............................................. 304
Duplicate shells, exploring expedition ......................................................... 193
Gill, families of mollusks .............................................................................. 227
Prime, corbiculideae ...................................................................................... 145
Stimpson, hydrobiideae ................................................................................ 261
Tryon, monograph of strepomatideae .......................................................... 253
ALPHABETICAL INDEX

TO

SMITHSONIAN CONTRIBUTIONS AND MISCELLANEOUS COLLECTIONS.

(The reference figures and letters refer to the numbers of the publications in the preceding list.)

Aboriginal monuments, N. Y. 15
Acts of Congress C. N. O. 67
Adams, subcutaneous surgery 302
Address, corner-stone, Dallas D
Agassiz, classification insects 16
Alexander, harmonies of solar system 280
Algae, fresh-water, Wood 241
Algae, marine, Harvey 32, 43, 95, 96
Allen, monograph bats 165
Altitudes, circular 236
Alvord, tangencies 80
Ammonia-cobalt bases, Gibbs and Genth 88
Anatomy of Rana pipiens, Wyman 45
Ancient fauna, Nebraska, Leidy 58
Ancient mining, Lake Superior, Whittlesey 155
Ancient monuments, Mississippi valley, Squier and Davis 1, 2
Ancient works, Ohio, Whittlesey 37
Animal resources, classification, Goode 297
Antiquities of Tennessee, Jones 259
Antiquities Wisconsin, Lapham 70
American correspondents 69, 238
Archaeology, circular 205
Archaeology, Mexican, Mayer 86
Archæology of United States, Haven 71
Archæology, Ran 287
Architecture, Owen P
Arctic observations, Kane, McClintock, Hayes 97, 104, 129, 130, 146, 196, 198
Arkansas, meteorology, Smith 151
Arrangement of birds, Baird 210
Asteroid tables, supplement, Runkle 94
Astronomical observations, Kane 129
Astronomical tables, Runkle 79, 94
Astronomical telegram circular 263
Aurora borealis, Olmsted 81
Auroras, record of, Force 84
Bache, magnetic discussion 113, 121, 132, 162, 175, 186
Bache, magnetic survey, Pennsylvania 166
Bailey, microscopic observations 20, 23, 63
Baird, arrangement of birds 210
Baird, catalogue birds 106, 108
Baird, catalogue mammals 105
Baird, food fishes 234
Baird, review of birds, part 1 181
Baird and Girard, catalogue of serpents 49
Barnard, rotary motion 240
Batis maritima, Torrey 60
Batrachia, North American, Cope 292
Bats, monograph, Allen 165
Bermuda, fishes of, Goode 296
Bibliography, conchology, Binney 142, 174

(33)
Bibliography, natural history, Girard 48
Binney, bibliography, conchology 142, 174
Binney, check list, shells 128
Binney, land and fresh-water shells 143, 144, 194
Birds, Baird, arrangement of 210
Birds, Baird, catalogue 106, 108
Birds, Baird, review, part 1 181
Birds, circular for collecting 168
Birds, Kerguelen Island, Kidder 293
Birds' nests and eggs, collecting 139
Birds of Mexico, Central America, and West Indies 155
Birds of Mexico, Lawrence 235
Birds of South America, circular 168
Bland and Binney, land and fresh-water shells 194
Booth and Morfit, chemical arts 27
Botanical index, Watson 258
Bowen, Yoruba grammar and dictionary 95
Brachiopoda, index of, Dall 304
Brains, have we two, Brown-Séquard 291
Brewer, N. A., oology, part 1 89
Bridge-man, Laura, vocal sounds of, Lieber 12
Brown-Séquard, have we two brains 291
Brunswick, Maine, meteorological observations, Cleaveland 204
Bulletin National Museum, No. 1, Cope 292
Bulletin National Museum, No. 2, Kidder and Cognes 293
Bulletin National Museum, No. 3, Kidder and others 294
Bulletin National Museum, No. 4, Lawrence 295
Bulletin National Museum, No. 5, Goode 296
Bulletin National Museum, No. 6, Goode 297
Bulletin National Museum, No. 7, Streets 303
Bulletin National Museum, No. 8, Dall 304
Bulletin National Museum, No. 9, Jordan 305
California, nat. history, Streets 303
Cancerous tumors, Woodward 266
Cape Flattery, Indians of, Swan 229
Carpenter, check list, shells 128
Carpenter, mollusca 152, 251, 252
Caswell, meteorological observations, Providence 103
Catalogue of birds, Baird 106, 108
Catalogue of coleoptera, Melsheimer 62
Catalogue of diptera, Osten-Sacken 102
Catalogue of fishes, Gill 283
Catalogue of lepidoptera, Morris 118
Catalogue of mammals, Baird 105
Catalogue of minerals, Egleston 156
Catalogue of orthoptera, Sonders 189
Catalogue of serpents, Baird and Girard 49
Catalogue, publications in library 117, 179
Catalogue, publications of Smithsonian Institution 74, 203, 228, 245, 278
Catalogue system, Jewett 47
Central America, circular on birds 168
Central America, list of birds of 185
Chappel smith, tornado 59
Check list, fossils, Conrad and Meek 177, 183, 200
Check list of periodicals Q
Check list, shells, Lias, Carpenter, etc. 125
Check list, Smithsonian publications 74, 203, 228, 245, 278, 290, 301
Chelonia, Mitchell and Morehouse 159
Chemical arts, Booth and Morfit 27
Chemical investigations, Jones 82
China, geology, Pumpelly 203
Chinook jargon, Gibbs 161
Chitonidae, Carpenter 251
Circular, altitudes 236
Circular on archaeology 205
LIST OF SMITHSONIAN PUBLICATIONS.

Circular, astronomical telegrams 263
Circular on birds 168
Circular to entomologists 178
Circular, food fishes 234
Circular, grasshoppers 163
Circular, Hudson's Bay Co. 137
Circular, lightning rods 237
Circular, observations in Russian America 207
Circular on relationship, Morgan 138
Circular on shells 176
Circular, thunder storms 235
Clarke, expansion by heat tables 289
Clarke, lucernaria 242
Clarke, specific gravity tables 255
Clarke, specific gravity tables, 1st supp. 288
Clarke, specific heat tables 276
Classification of animal resources, Goode 297
Classification of coleoptera, Le Conte 136, 265
Classification of insects, Agassiz 16
Cleaveland, meteorological observations, Brunswick, Maine 204
Coffin, meteoric fire-ball 221
Coffin, psychrometrical tables 87
Coffin, winds of the globe 268
Coffin, winds, northern hemisphere 52, 268
Coleoptera, classification, Le Conte 136, 265
Coleoptera, Kansas, Le Conte 126
Coleoptera, list, Le Conte 140
Coleoptera, new species, Le Conte 167, 264
Coleoptera, catalogue, Melsheimer 62
Collecting specimens, Baird, Packard, etc. 34, 139, 261
Comparative vocabulary 170
Conchology, bibliography, Binney 142, 174
Congress, acts of C. N. O., 67
Conrad, check list, fossils, etc. 200
Consanguinity, systems of, Morgan 138, 218
Contributions to knowledge 2, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151, 184, 206, 211, 229, 246, 272, 284, 285
Converging series, Ferrel 233
Cope, North America batrachia and reptilia 292
Corbiculace, Prime 145
Correspondents, domestic 69, 238
Correspondents, foreign 64, 154, 225, 243
Cottoids, Girard 30
Cotes, birds of Kerguelen Island 293
Cotes, Nat. Hist. of Kerguelen Island 294
Cretaceous fossils, Meek 177
Cretaceous reptiles, Leidy 192
DaCosta, the heart 279
Dakota grammar and dictionary, Biggs 40
Dall, index of brachiopoda 304
Dallas, address, corner-stone D
Darlingtonia Californica, Torrey 61
Davis, flood-tide 33
Davis, Squier and, ancient monuments 1, 2
Dean, medulla oblongata 173
De Saussure, hymenoptera 254
Dictionary, Chinook jargon, Gibbs 161
Dictionary, Dakota, Biggs 40
Dictionary, Yoruba, Bowen 98
Digest of act of Congress C
Diptera, monograph, Loew 141, 171, 256
Diptera, catalogue, Osten Sacken 102
Diptera, monograph, Osten Sacken 141, 171, 219, 256
Directions, collecting specimens 34, 139, 261
Directions, meteorological observations 10, 148
Downes, occultations 8, 9, 10, 11, 29, 54
<table>
<thead>
<tr>
<th>Title</th>
<th>Author</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Draper, telescope in photography</td>
<td></td>
<td>180</td>
</tr>
<tr>
<td>Drift, Whittlesey</td>
<td></td>
<td>197</td>
</tr>
<tr>
<td>Eclipse, Gilliss, Hill</td>
<td></td>
<td>63, 100, 101</td>
</tr>
<tr>
<td>Eggs, Brewer</td>
<td></td>
<td>89</td>
</tr>
<tr>
<td>Eggs, circular</td>
<td></td>
<td>139</td>
</tr>
<tr>
<td>Eggs, instructions for collecting</td>
<td></td>
<td>139</td>
</tr>
<tr>
<td>Egleston, catalogue minerals</td>
<td></td>
<td>156</td>
</tr>
<tr>
<td>Electrical rheometry, Secchi</td>
<td></td>
<td>36</td>
</tr>
<tr>
<td>Ellet, physical geography Mississippi valley</td>
<td></td>
<td>13</td>
</tr>
<tr>
<td>Entomologists, directions to</td>
<td></td>
<td>178, 261</td>
</tr>
<tr>
<td>Eocene fossils, Conrad</td>
<td></td>
<td>261</td>
</tr>
<tr>
<td>Ephemeris, Neptune, Walker</td>
<td></td>
<td>4, 5, 6, 7, 24</td>
</tr>
<tr>
<td>Ethnology, circular</td>
<td></td>
<td>205</td>
</tr>
<tr>
<td>Ethnology, instructions relative to Gibbs</td>
<td></td>
<td>160</td>
</tr>
<tr>
<td>Exchanges, list of, part 1</td>
<td></td>
<td>73</td>
</tr>
<tr>
<td>Exchanges, list of, part 2</td>
<td></td>
<td>85</td>
</tr>
<tr>
<td>Exchanges, list of, to 1858</td>
<td></td>
<td>117</td>
</tr>
<tr>
<td>Expansion by heat, tables, Clarke</td>
<td></td>
<td>289</td>
</tr>
<tr>
<td>Exploring expedition, duplicate shells</td>
<td></td>
<td>193</td>
</tr>
<tr>
<td>Explosiveness of nitre, Hare</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Fanning Islands, nat. history, Streets</td>
<td></td>
<td>303</td>
</tr>
<tr>
<td>Fauna and flora, Leidy</td>
<td></td>
<td>44</td>
</tr>
<tr>
<td>Ferrel, converging series</td>
<td></td>
<td>233</td>
</tr>
<tr>
<td>Fever, lecture on, Keen</td>
<td></td>
<td>300</td>
</tr>
<tr>
<td>Fever, lecture on, Wood</td>
<td></td>
<td>282</td>
</tr>
<tr>
<td>Fire-ball, Coffin</td>
<td></td>
<td>221</td>
</tr>
<tr>
<td>Fishes of Bermuda, Goode</td>
<td></td>
<td>296</td>
</tr>
<tr>
<td>Fishes, catalogue of, Gill</td>
<td></td>
<td>283</td>
</tr>
<tr>
<td>Fishes, circular, Baird</td>
<td></td>
<td>234</td>
</tr>
<tr>
<td>Fishes, cottoid, Girard</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Fishes, families of, Gill</td>
<td></td>
<td>247</td>
</tr>
<tr>
<td>Fishes, notes on, Jordan</td>
<td></td>
<td>305</td>
</tr>
<tr>
<td>Flood-tide, Davis</td>
<td></td>
<td>33</td>
</tr>
<tr>
<td>Flora and fauna, Leidy</td>
<td></td>
<td>44</td>
</tr>
<tr>
<td>Fluctuations of level of lakes, Whittlesey</td>
<td></td>
<td>119</td>
</tr>
<tr>
<td>Force, record of auroras</td>
<td></td>
<td>84</td>
</tr>
<tr>
<td>Foreign correspondents, list of</td>
<td></td>
<td>64, 154, 225, 243</td>
</tr>
<tr>
<td>Fossil ox, Leidy</td>
<td></td>
<td>41</td>
</tr>
<tr>
<td>Fossils, check list, Conrad</td>
<td></td>
<td>200</td>
</tr>
<tr>
<td>Fossils, check list, Meek</td>
<td></td>
<td>177, 183</td>
</tr>
<tr>
<td>Frémont, plants</td>
<td></td>
<td>45</td>
</tr>
<tr>
<td>Genth and Gibbs, ammonia-cobalt bases</td>
<td></td>
<td>88</td>
</tr>
<tr>
<td>Geology, China and Japan, Pumppelty</td>
<td></td>
<td>202</td>
</tr>
<tr>
<td>Geology, Hitchcock</td>
<td></td>
<td>90</td>
</tr>
<tr>
<td>Geology of Louisiana, Hilgard</td>
<td></td>
<td>248</td>
</tr>
<tr>
<td>Gibbs, mosasaurs</td>
<td></td>
<td>14</td>
</tr>
<tr>
<td>Gibbs and Genth, ammonia-cobalt bases</td>
<td></td>
<td>88</td>
</tr>
<tr>
<td>Gibbs, comparative vocabulary</td>
<td></td>
<td>170</td>
</tr>
<tr>
<td>Gibbs, ethnological instructions</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Gill, catalogue of fishes</td>
<td></td>
<td>233</td>
</tr>
<tr>
<td>Gill, families of fishes</td>
<td></td>
<td>247</td>
</tr>
<tr>
<td>Gill, families of mammals</td>
<td></td>
<td>230</td>
</tr>
<tr>
<td>Gill, families of mollusks</td>
<td></td>
<td>227</td>
</tr>
<tr>
<td>Gilliss, solar eclipse, Peru</td>
<td></td>
<td>100</td>
</tr>
<tr>
<td>Girard and Baird, catalogue, serpents</td>
<td></td>
<td>49</td>
</tr>
<tr>
<td>Girard, bibliography nat. hist.</td>
<td></td>
<td>48</td>
</tr>
<tr>
<td>Girard, cottoids</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Girard College, observations</td>
<td></td>
<td>197</td>
</tr>
<tr>
<td>Bache 113, 121, 132, 162, 175, 186</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glacial drift, Whittlesey</td>
<td></td>
<td>208</td>
</tr>
<tr>
<td>Giribon, mummy-case, Pickering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Goode, classification of animal resources</td>
<td></td>
<td>297</td>
</tr>
<tr>
<td>Goode, fishes of Bermuda</td>
<td></td>
<td>293</td>
</tr>
<tr>
<td>Gould, discovery of neptune</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Gould, transatlantic longitude</td>
<td></td>
<td>223</td>
</tr>
<tr>
<td>Grammar, Dakota, Riggs</td>
<td></td>
<td>40</td>
</tr>
<tr>
<td>Grammar, Yoruba, Bowen</td>
<td></td>
<td>98</td>
</tr>
<tr>
<td>Grand Manan, invertebrata</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stimpson</td>
<td></td>
<td>50</td>
</tr>
<tr>
<td>Grasshopper, circular</td>
<td></td>
<td>163</td>
</tr>
<tr>
<td>Gray, Plante wrightianæ</td>
<td></td>
<td>22, 42</td>
</tr>
<tr>
<td>Guyot, meteorological and physical tables</td>
<td></td>
<td>31, 153</td>
</tr>
<tr>
<td>Guyot, meteorological directions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hagen, synopsis neuroptera</td>
<td></td>
<td>134</td>
</tr>
<tr>
<td>Haidah Indians, Swan</td>
<td></td>
<td>287</td>
</tr>
<tr>
<td>Hagen, synopsis neuroptera</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Haidah Indians, Swan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>Haldeman, coleoptera</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>Hare, explosiveness of nitre</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Harkness, magnetic observations on iron-clad</td>
<td>239</td>
<td></td>
</tr>
<tr>
<td>Harmonies of solar system, Alexander</td>
<td>280</td>
<td></td>
</tr>
<tr>
<td>Harvey, algae</td>
<td>32, 43, 95, 96</td>
<td></td>
</tr>
<tr>
<td>Haven, archaeology of U. S.</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>Hawaiian Islands, nat. history, Streets</td>
<td>303</td>
<td></td>
</tr>
<tr>
<td>Hayden and Meek, paleontology upper Missouri</td>
<td>172</td>
<td></td>
</tr>
<tr>
<td>Hayes, arctic observations</td>
<td>196</td>
<td></td>
</tr>
<tr>
<td>Heart, lecture on, DaCosta</td>
<td>279</td>
<td></td>
</tr>
<tr>
<td>Heat, tables of expansion, Clarke</td>
<td>259</td>
<td></td>
</tr>
<tr>
<td>Heights, circular</td>
<td>236</td>
<td></td>
</tr>
<tr>
<td>Henry, exposition of Smithson’s bequest</td>
<td>E</td>
<td></td>
</tr>
<tr>
<td>Henry, electro-magnetic telegraph</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>Henry, first report of</td>
<td>F</td>
<td></td>
</tr>
<tr>
<td>Henry, meteoric shower</td>
<td>217</td>
<td></td>
</tr>
<tr>
<td>Hildreth, meteorological observations, Marietta</td>
<td>120</td>
<td></td>
</tr>
<tr>
<td>Hilgard, geology of Louisiana</td>
<td>248</td>
<td></td>
</tr>
<tr>
<td>Hill, solar eclipse</td>
<td>101</td>
<td></td>
</tr>
<tr>
<td>Hitchcock, surface geology</td>
<td>90</td>
<td></td>
</tr>
<tr>
<td>Hoek, meteoric shower</td>
<td>217</td>
<td></td>
</tr>
<tr>
<td>Hudson’s bay, circular</td>
<td>137</td>
<td></td>
</tr>
<tr>
<td>Hydrobiinae, Stimpson</td>
<td>201</td>
<td></td>
</tr>
<tr>
<td>Hymenoptera, De Saussure</td>
<td>254</td>
<td></td>
</tr>
<tr>
<td>Ichthyology, Jordan, notes</td>
<td>305</td>
<td></td>
</tr>
<tr>
<td>Index, botanical, Watson</td>
<td>258</td>
<td></td>
</tr>
<tr>
<td>Index, brachiopoda, Dall</td>
<td>304</td>
<td></td>
</tr>
<tr>
<td>Indian photographs</td>
<td>216</td>
<td></td>
</tr>
<tr>
<td>Indian portrait gallery, Stanley</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Indiana tornado, Chappel smith</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Indians, Haidah, Swan</td>
<td>267</td>
<td></td>
</tr>
<tr>
<td>Indians, Makah, Swan</td>
<td>220</td>
<td></td>
</tr>
<tr>
<td>Insects, classification, Agassiz</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Insects, directions for collecting, Packard</td>
<td>261</td>
<td></td>
</tr>
<tr>
<td>Institutions, list of domestic</td>
<td>69, 238</td>
<td></td>
</tr>
<tr>
<td>Institutions, list of foreign</td>
<td>64, 154, 225, 243</td>
<td></td>
</tr>
<tr>
<td>Invertebrates, Grand Manan, Stimpson</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Japan, geology, Pumpelly</td>
<td>202</td>
<td></td>
</tr>
<tr>
<td>Jargon, Chinook, Gibbs</td>
<td>161</td>
<td></td>
</tr>
<tr>
<td>Jargon, Oregon, Mitchell</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>Jewett, catalogue system</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>Jewett, public libraries</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Jones, antiquities of Tennessee</td>
<td>259</td>
<td></td>
</tr>
<tr>
<td>Jones, chemical and physiological investigations</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>Jordan, North American ichthyology</td>
<td>305</td>
<td></td>
</tr>
<tr>
<td>Journal of regents</td>
<td>A</td>
<td></td>
</tr>
<tr>
<td>Kane, astronomical observations, arctic seas</td>
<td>129</td>
<td></td>
</tr>
<tr>
<td>Kane, magnetic observations, arctic seas</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>Kane, meteorological observations, arctic seas</td>
<td>104</td>
<td></td>
</tr>
<tr>
<td>Kane, physical and meteorological observations (complete)</td>
<td>198</td>
<td></td>
</tr>
<tr>
<td>Kane, tidal observations</td>
<td>130</td>
<td></td>
</tr>
<tr>
<td>Kansas, coleoptera, Le Conte</td>
<td>126</td>
<td></td>
</tr>
<tr>
<td>Keen, continued fevers</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>Kerguelen Island, birds of Kidder</td>
<td>293</td>
<td></td>
</tr>
<tr>
<td>Kerguelen Island, natural history of Kidder and Coues</td>
<td>294</td>
<td></td>
</tr>
<tr>
<td>Kidder and Cones, birds, Kerguelen Island</td>
<td>293</td>
<td></td>
</tr>
<tr>
<td>Kidder and others, nat. hist., Kerguelen Island</td>
<td>294</td>
<td></td>
</tr>
<tr>
<td>Lakes, fluctuations of level, Whittlesey</td>
<td>119</td>
<td></td>
</tr>
<tr>
<td>Lake Superior, ancient mining, Whittlesey</td>
<td>155</td>
<td></td>
</tr>
<tr>
<td>Lapham, antiquities of Wisconsin</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Lawrence, birds of Mexico</td>
<td>295</td>
<td></td>
</tr>
<tr>
<td>Lea, check list shells</td>
<td>128</td>
<td></td>
</tr>
<tr>
<td>Le Conte, classification, coleoptera</td>
<td>136, 265</td>
<td></td>
</tr>
<tr>
<td>Le Conte, coleoptera, Kansas</td>
<td>126</td>
<td></td>
</tr>
<tr>
<td>Le Conte, list coleoptera</td>
<td>140</td>
<td></td>
</tr>
<tr>
<td>Le Conte, new species coleoptera</td>
<td>167, 264</td>
<td></td>
</tr>
</tbody>
</table>
LIST OF SMITHSONIAN PUBLICATIONS.

Lectures. See Toner lectures, see Carpenter.
Leidy, ancient fauna, Nebraska 58
Leidy, cretaceous reptiles 192
Leidy, extinct sloths 72
Leidy, fauna and flora 44
Leidy, fossil ox 41
Lepidoptera, catalogue, Morris 118
Lepidoptera, synopsis, Morris 133
Level of lakes, Whittlesey 119
Libraries, account of, Jewett 73, 85, 117, 179
Libraries, catalogue system, Jewett 25
Libraries, list of, Rhees 116, 238
Library of Congress, catalogue of publications deposited in 179
Library of Smithsonian Institution, catalogue of 73, 85, 117, 179
Library, publications of learned societies in 73, 85, 117, 179
Lieber, vocal sounds of Laura Bridgeman
Lightning-rods, circular 237
List of American correspondents 69
List of birds in Mexico 165
List of coleoptera, Le Conte 140
List of foreign correspondents 64, 154, 225, 243
List of shells of exp. exped. 193
List of Smithonian publications 74, 203, 226, 245, 278, 290, 301
Locke, terrestrial magnetism 35
Loew, monograph diptera 141, 171, 219, 256
Longitude, transatlantic, Gould 223
Louisis, storms 127
Louisiana, geology of, Hilgard 248
Lucernariae, Clark 242
Magnetic discussion, Bache 113, 121, 132, 162, 175, 188
Magnetic observations, Arctic seas, Kane, Hayes 97, 196
Magnetic observations, Harkness 239
Magnetic observations, Mexico, Somntag 114
Magnetic survey, Pennsylvania, Bache 169
Magnetic telegraph, report on 115
Magnetism, Locke 35
Makah Indians, Swan 220
Mammals, catalogue, Baird 105
Mammals, families, Gill 230
Map of solar eclipse, Hill 101
Marietta, meteorological observations, Hildreth 120
Marine algae, Harvey 32, 43, 95, 96
Marine invertebrata, Grand Manan, Stimpson 50
Mayer, Mexican history and archaeology 86
McClintock, meteorological observations, Arctic seas 148
Meech, intensity sun's heat 83
Medulla oblongata, Dean 173
Meek, check list fossils, cretaceous 177
Meek, check list fossils, miocene 183
Meek and Hayden, palaeontology, upper Missouri 172
Melsheimer, catalogue, coleoptera 62
Meteorite fire-ball, Coffin 221
Meteorite shower, Henry 217
Meteorological directions 19, 148
Meteorological discussion, Bache 113, 121, 132, 162, 175, 188
Meteorological observations, 1854-59 157, 182
Meteorological observations, 1855 93
Meteorological observations, Caswell 103
Meteorological observations, Cleaveland 204
Meteorological observations, Hayes 196
Meteorological observations, Hildreth 120
Meteorological observations, Kane 104
Meteorological observations, McClintock 146
Meteorological observations, Smith 131
Meteorological tables, Guyot 31, 153
Meteors, November 217
Mexico, birds of, Lawrence 295
LIST OF SMITHSONIAN PUBLICATIONS.

Mexico, history and archeology, Mayer 86
Mexico, list of birds of 185
Mexico, magnetic observations, Sonntag 114
Microscopy, Bailey 20, 23, 63
Minerals, catalogue, Egleston 156
Mining, ancient, Whittlesey 155
Miocene fossils, Meek 183
Miscellanea, museum 164
Miscellaneous collections 122, 123, 124, 125, 158, 169, 191, 212, 213, 250, 273, 274, 302
Mississippi valley, ancient monuments, Squier and Davis 1, 2
Mississippi valley, physical geography, Ellet 13
Missouri, palaeontology of upper, Meek and Hayden 172
Mitchell and Morehouse, chelonias 159
Mitchell, venom, rattlesnake 135
Mitchell and Turner, vocabulary of jargon 68
Mollusca, Carpenter 251, 252
Molluscs, lectures, Carpenter 152
Moulusks, families, Gill 227
Mongolia, geology, Pumpelly 202
Monograph of bats, Allen 165
Monograph of corbiculace, Prime 145
Monograph of diptera, Loew, Osten-Sacken 141, 171, 219, 255
Monograph of streptomatiace, Tryon 253
Monograph of wasps, De Saussure 254
Morehouse and Mitchell, chelonias 159
Morfit and Booth, chemical arts 27
Morgan, circular on relationship 138
Morgan, systems of consanguinity 218
Morris, catalogue of lepidoptera 118
Morris, synopsis lepidoptera 133
Mosasaurus, Gibbes 14
Muller, magnetism in Mexico 114
Mummy case, Pickering 208
Museum, National, bulletins of 292, 293, 294, 295, 296, 297, 303, 304, 305
Museum, miscellanea 164
National museum bulletins 292, 293, 294, 295, 296, 297, 303, 304, 305
Natural history, bibliography, Girard 48
Natural history, directions 34, 179, 261
Natural history of Kerguelen Island, Kidder and others 293
Natural history of Hawaiian Islands, etc., Streets 303
Nebraska, ancient fauna, Leidy 58
Nebraska, palaeontology, Meek and Hayden 172
Neptune, ephemeris, Walker 4, 5, 6, 7, 24
Neptune, history of discovery, Gould 18
Neptune, orbit of, Newcomb 199
Neptune, researches, Walker 3
Nereis-Boreali-Americana, Harvey 95, 96
Nests, instructions for collecting 139
Neuroptera, synopsis, Hagen 134
Newcomb, integrals of planetary motion 281
Newcomb, orbit of neptune 199
Newcomb, orbit of uranus 262
New Mexico, coleoptera, Le Conte 126
New York, aboriginal monuments, Squier 15
Nitre, explosiveness of, Hare 17
Occultations, Downes 8, 9, 10, 11, 29, 54
Officers, list of N
Ohio, ancient works, Whittlesey 37
Olmsted, aurora borealis 81
Oology, Brewer 89
Orbit of fire-ball, Coffin 221
Orbit of neptune, Newcomb 199
Orbit of uranus, Newcomb 262
Orbits of planets, Stockwell 232
Oregon, trade language of, Mitchell, Turner, Gibbs 68, 161
LIST OF SMITHSONIAN PUBLICATIONS.

Orthoptera, catalogm, Scudder 159
Osten-Sacken, catalogue diptera 102
Osten-Sacken, monograph diptera 141, 171, 219, 256
Owen, hints on public architecture P
Ox, extinct, Leidy 41
Packard, directions, insects 261
Paleontology of the upper Missouri, Meek and Hayden 172
Pennsylvania, magnetic survey, Bache 166
Periodical phenomena, directions 65, 148
Periodicals, check list of Q
Periodicals in library of Smith-sonian Institution 73, 85, 117, 179
Pern, eclipse of sun, Gilliss 160
Philology, instructions relative to, Gibbs 160
Photographs of Indians 216
Photography, use of telescope, Draper 180
Physical geography, Ellet 13
Physical observations, Hayes 195
Physical observations, Kane 198
Physical observations, McClintock 146
Physical tables, Guyot 31, 153
Physiological investigations, Jones 82
Pickering, mummy case 208
Planets, orbits, Stockwell 222
Planetary motion, Newcomb 281
Planetary tables, Runkle 79, 94
Plants Frémontiana, Torrey 46
Plants Wrightianae, Gray 22, 42
Popocatapetl, observations of, Sonntag 114
Precipitation of rain and snow in U. S., Schott 222
Prime, check list shells 128
Prime, monograph corbiculadae 145
Problems of rotary motion, Barnard 240
Programme of organization F, J
Providentia, meteorological observations, Caswell 103
Psychrometrical tables, Coffin 87
Publications in Smithsonian Li-brary 73, 85, 117, 179
Publications of Smithsonian Institution, catalogue of 74, 203, 226, 245, 278, 290, 301
Pumpelly, geology of China, Japan, and Mongolia 202
Queries relative to tornadoes 190
Rainfall in United States, Schott 222
Rana pipiens, Wyman 45
Rattlesnake, venom of, Mitchell 135
Rau, archaeological collections 287
Regents, journal of A
Regents, list of, etc. N
Register of periodical phenomena 65
Relationship circular, Morgan 138
Relationship, systems of, Morgan 218
Report of committee on organization B, L
Report on magnetic telegraph 115
Reports of Smithsonian Institution 0, H, I, M, 21, 28, 51, 57, 67, 75, 77, 91, 107, 109, 110, 147, 149, 150, 187, 188, 200, 214, 215, 224, 228, 244, 249, 271, 275, 286, 298, 299
Reptiles, catalogue of, Baird and Girard 49
Reptiles, cretaceous, Leidy 192
Reptiles, families, Cope 292
Results of meteorological observ-ations 157, 182
Review of North American birds, Baird 181
Rhines, public libraries 116, 238
Rheometry, electrical, Secchi 36
Riggs, Dakota grammar and dic-tionary 40
Rotary motion, Barnard 240
Runkle, asteroid tables 94
Runkle, planetary tables 79, 94
Russian America circular 207
Sanssourc. See De Sanssourc.
Schott, rainfall in United States 222
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schott, temperature tables</td>
<td>277</td>
</tr>
<tr>
<td>Schott, reductions, meteorology, etc.</td>
<td>97, 103, 104, 120, 129, 130, 131, 146, 196, 198, 204, 222, 277</td>
</tr>
<tr>
<td>Scudder, catalogue of orthoptera</td>
<td>189</td>
</tr>
<tr>
<td>Secchi, rheometry</td>
<td>36</td>
</tr>
<tr>
<td>Serpents, catalogue, Baird and Girard</td>
<td>49</td>
</tr>
<tr>
<td>Shell circular</td>
<td>176</td>
</tr>
<tr>
<td>Shells, bibliography, Binney</td>
<td>142</td>
</tr>
<tr>
<td>Shells, check list</td>
<td>128</td>
</tr>
<tr>
<td>Shells, exploring expedition</td>
<td>193</td>
</tr>
<tr>
<td>Shells, land and fresh-water, Binney and Bland</td>
<td>143, 144, 194</td>
</tr>
<tr>
<td>Smithonian contributions</td>
<td>2, 26</td>
</tr>
<tr>
<td>Smithsonian publications, list of</td>
<td>74, 203, 223, 245, 278, 290, 301</td>
</tr>
<tr>
<td>Smithison's bequest, exposition</td>
<td>E</td>
</tr>
<tr>
<td>Snow and rainfall tables, Schott</td>
<td>222</td>
</tr>
<tr>
<td>Societies, publications of, in Smithsonian library</td>
<td>73, 85, 117, 179</td>
</tr>
<tr>
<td>Solar system, harmonies of, Alexander</td>
<td>280</td>
</tr>
<tr>
<td>Sonntag, magnetic observations, Mexico</td>
<td>114</td>
</tr>
<tr>
<td>Soundings, examination of, Bailey</td>
<td>20</td>
</tr>
<tr>
<td>South American bird circular</td>
<td>186</td>
</tr>
<tr>
<td>Southern States microscopy, Bailey</td>
<td>23</td>
</tr>
<tr>
<td>Specific gravity tables, Clarke</td>
<td>255</td>
</tr>
<tr>
<td>Specific gravity tables, 1st supp., Clarke</td>
<td>288</td>
</tr>
<tr>
<td>Specific heat tables, Clarke</td>
<td>276</td>
</tr>
<tr>
<td>Squier, aboriginal monuments, New York</td>
<td>15</td>
</tr>
<tr>
<td>Squier and Davis, ancient monuments, Mississippi valley,</td>
<td>1, 2</td>
</tr>
<tr>
<td>Squier and Davis, correspondence relative to memoir</td>
<td>K</td>
</tr>
<tr>
<td>Stanley, Indian portrait gallery</td>
<td>53</td>
</tr>
<tr>
<td>Stimpson, check list shells</td>
<td>128</td>
</tr>
<tr>
<td>Stimpson, hydrobiine</td>
<td>201</td>
</tr>
<tr>
<td>Stimpson, marine invertebrata, Grand Manan</td>
<td>50</td>
</tr>
<tr>
<td>Stockwell, secular variations of orbits</td>
<td>232</td>
</tr>
<tr>
<td>Storms, Loomis</td>
<td>127</td>
</tr>
<tr>
<td>Streets, nat. history of Hawaiian Islands, Fanning Islands, and</td>
<td>303</td>
</tr>
<tr>
<td>lower California</td>
<td></td>
</tr>
<tr>
<td>Serpentid, Tryon</td>
<td>253</td>
</tr>
<tr>
<td>Subcutaneous surgery, Adams</td>
<td>302</td>
</tr>
<tr>
<td>Sun, heat, and light, Meech</td>
<td>83</td>
</tr>
<tr>
<td>Sumichrast, birds of Mexico</td>
<td>295</td>
</tr>
<tr>
<td>Surgery, subcutaneous, Adams</td>
<td>302</td>
</tr>
<tr>
<td>Swan, Makah Indians of Cape Flattery</td>
<td>220</td>
</tr>
<tr>
<td>Swan, Haidaah Indians</td>
<td>267</td>
</tr>
<tr>
<td>Systems of consanguinity, Morgan</td>
<td>218</td>
</tr>
<tr>
<td>Synopsis of lepadoptera, Morris</td>
<td>133</td>
</tr>
<tr>
<td>Synopsis of neuroptera, Hagen</td>
<td>134</td>
</tr>
<tr>
<td>Tables, asteroid, Runkle</td>
<td>94</td>
</tr>
<tr>
<td>Tables, expansion by heat, Clarke</td>
<td>229</td>
</tr>
<tr>
<td>Tables, meteorological, Guyot</td>
<td>31</td>
</tr>
<tr>
<td>Tables, physical, Guyot</td>
<td>31, 153</td>
</tr>
<tr>
<td>Tables, planetary, Runkle</td>
<td>73, 94</td>
</tr>
<tr>
<td>Tables, psychrometrical, Coffin</td>
<td>87</td>
</tr>
<tr>
<td>Tables, rain and snow, Schott</td>
<td>222</td>
</tr>
<tr>
<td>Tables, specific gravity, Clarke</td>
<td>255</td>
</tr>
<tr>
<td>Tables, specific gravity, 1st supp., Clarke</td>
<td>288</td>
</tr>
<tr>
<td>Tables, specific heat, Clarke</td>
<td>276</td>
</tr>
<tr>
<td>Tables, temperature, Schott</td>
<td>277</td>
</tr>
<tr>
<td>Tangencies, Alvord</td>
<td>80</td>
</tr>
<tr>
<td>Telegram circular</td>
<td>263</td>
</tr>
<tr>
<td>Telegraph, report of regents on</td>
<td>115</td>
</tr>
<tr>
<td>Telescope in photography, Draper</td>
<td>180</td>
</tr>
<tr>
<td>Temperature tables, Schott</td>
<td>277</td>
</tr>
<tr>
<td>Temperature. See Kane, Hayes, Meteorology, etc.</td>
<td></td>
</tr>
<tr>
<td>Tennessee antiquities, Jones</td>
<td>259</td>
</tr>
<tr>
<td>Terrestrial magnetism, Locke</td>
<td>95</td>
</tr>
<tr>
<td>Thunder-storms, circular</td>
<td>235</td>
</tr>
<tr>
<td>Tidal observations, Hayes</td>
<td>193</td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Tidal observations, Kane</td>
<td>130</td>
</tr>
<tr>
<td>Tidal observations, Whittlesey</td>
<td>119</td>
</tr>
<tr>
<td>Tide, law of deposit of flood, Davis</td>
<td>33</td>
</tr>
<tr>
<td>Toner lectures, I, Woodward</td>
<td>266</td>
</tr>
<tr>
<td>Toner lectures, II, Brown-Séquard</td>
<td>291</td>
</tr>
<tr>
<td>Toner lectures, III, Da Costa</td>
<td>279</td>
</tr>
<tr>
<td>Toner lectures, IV, Wood</td>
<td>282</td>
</tr>
<tr>
<td>Toner lectures, V, Keen</td>
<td>300</td>
</tr>
<tr>
<td>Toner lectures, VI, Adams</td>
<td>302</td>
</tr>
<tr>
<td>Tornado, Chappelsmith</td>
<td>59</td>
</tr>
<tr>
<td>Tornadoes, queries relative to</td>
<td>190</td>
</tr>
<tr>
<td>Torrey, Batis Maritima</td>
<td>60</td>
</tr>
<tr>
<td>Torrey, Darlingtonia Californica</td>
<td>61</td>
</tr>
<tr>
<td>Torrey, Plantæ Frémontiana</td>
<td>46</td>
</tr>
<tr>
<td>Trade language of Oregon</td>
<td>161</td>
</tr>
<tr>
<td>Transatlantic longitude, Gould</td>
<td>223</td>
</tr>
<tr>
<td>Tryon, strepomattida</td>
<td>253</td>
</tr>
<tr>
<td>Turner and Mitchell, vocabulary of jargon</td>
<td>68</td>
</tr>
<tr>
<td>Uranus, orbit of, Newcomb</td>
<td>262</td>
</tr>
<tr>
<td>Venom of rattlesnake, Mitchell</td>
<td>135</td>
</tr>
<tr>
<td>Vocabulary, comparative, Gibb.</td>
<td>170</td>
</tr>
<tr>
<td>Vocabulary of Jargon, Mitchell, Gibbs</td>
<td>68, 161</td>
</tr>
<tr>
<td>Vocal sounds of L. Bridgeman</td>
<td>12</td>
</tr>
<tr>
<td>Walker, Neptune</td>
<td>3, 4, 5, 6, 7, 24</td>
</tr>
<tr>
<td>Washington, Ark., meteorology</td>
<td>131</td>
</tr>
<tr>
<td>Waaps, monograph, De Saussure</td>
<td>254</td>
</tr>
<tr>
<td>Watson, botanical index</td>
<td>258</td>
</tr>
<tr>
<td>Whittlesey, ancient mining</td>
<td>155</td>
</tr>
<tr>
<td>Whittlesey, ancient works, Ohio</td>
<td>37</td>
</tr>
<tr>
<td>Whittlesey, fluctuations level of lakes</td>
<td>119</td>
</tr>
<tr>
<td>Whittlesey, glacial drift</td>
<td>197</td>
</tr>
<tr>
<td>Will of Smithson</td>
<td>B, 67</td>
</tr>
<tr>
<td>Winds of northern hemisphere</td>
<td>52</td>
</tr>
<tr>
<td>Winds of the globe, Coffin</td>
<td>268</td>
</tr>
<tr>
<td>Wilkes, exp. exped., shells of</td>
<td>193</td>
</tr>
<tr>
<td>Wisconsin, antiquities of, Lapham</td>
<td>70</td>
</tr>
<tr>
<td>Wood, fresh-water algae</td>
<td>241</td>
</tr>
<tr>
<td>Wood, meteorological observations, Marietta</td>
<td>120</td>
</tr>
<tr>
<td>Wood, study of fever</td>
<td>28-2</td>
</tr>
<tr>
<td>Woodward, cancerous tumors</td>
<td>266</td>
</tr>
<tr>
<td>Wyman, Rana pipens</td>
<td>45</td>
</tr>
<tr>
<td>Yoruba grammar and dictionary, Bowen</td>
<td>98</td>
</tr>
</tbody>
</table>
PART II.

PUBLICATIONS OF THE INSTITUTION, PRINTED BY CONGRESS.

ANNUAL REPORTS OF THE SMITHSONIAN INSTITUTION.

The Annual Report of the Institution consists of the Reports of the Secretary, of the Executive and Building Committees, Proceedings of the Board of Regents, Lists of Meteorological Observers and Donors to the Museum, Statistics of Exchanges, Publications, etc. etc., and a General Appendix.

The object of the General Appendix is to illustrate the operations of the Institution by reports of lectures and extracts from correspondence, as well as to furnish information of a character suited especially to meteorological observers and other persons interested in the promotion of knowledge.

CONTENTS OF THE GENERAL APPENDIX.

Report for 1847.
Espy, On Meteorology.

Report for 1848.
Jewett, Report on Library.
Stevens, Prospectus of a Bibliographia Americana.
Hare, Letter relative to Gift of Apparatus.

Report for 1849.
Gray, Report on Botanical Explorations in New Mexico and California.
Agassiz, On Formation of a Museum.
Jewett, Public Libraries of the United States.

Report for 1850.
Jewett, General Catalogue System for Libraries.
Culbertson, Expedition to the Mauvais Terres and Upper Missouri.

( 43 )
LIST OF SMITHSONIAN PUBLICATIONS.

Porter, List of Plants of Upper Missouri.
Harris, List of Birds and Mammalia of Missouri River.
Culbertson, Indian Tribes of the Upper Missouri.
Memorial of the Regents to Congress, relative to the Smithson Fund.
Squier, Antiquities from Nicaragua.
Jewett, Copyright Books from 1846-1849.

Report for 1851.

Jewett, Smithsonian Library and Copyright System.
Baird, Natural History Explorations in the United States in 1851.
Leidy, Report on Fossils from Nebraska.
Turner, Indian Philology.

Report for 1852.

Baird, Scientific Explorations in America in 1852.

Report for 1853.

Jewett, Report on Library.
Reports of Committee of Regents on Distribution of Smithsonian Income.
Will of Smithson.
Letter from Hon. Richard Rush relative to James Smithson.
Notice of Smithson by Davies Gilbert, President of the Royal Society.
List of Papers presented to Royal Society by James Smithson.
Contributions to Annals of Philosophy by James Smithson.
Act of Congress accepting Bequest, July 1, 1836.
Act to establish the Smithsonian Institution, August 10, 1846.
Construction of the Act establishing the Smithsonian Institution, by Hon. J. MacPherson Berrien.
Address by Prof. Henry on the Smithsonian Institution.
First Report of the Secretary, Dec. 8, 1847. (Reprint.)
Second Report of the Secretary for 1848.
Third Report of the Secretary for 1849.
Fourth Report of the Secretary for 1850.
Fifth Report of the Secretary for 1851.
Sixth Report of the Secretary for 1852.

Report for 1854.

Baird, Report on American Explorations in the years 1853 and 1854.
Marsh, Lecture on the Camel.
Loomis, Lecture on the Zone of Small Planets between Mars and Jupiter.
Channing, Lecture on the American Fire Alarm Telegraph.
LIST OF SMITHSONIAN PUBLICATIONS.

Reed, Lectures on the Union.
Russell and Henry, Lectures on Meteorology.
Hare, On John Wise’s Observation of a Thunderstorm.
Gibbons, Climate of San Francisco.
Logan, Meteorological Observations at Sacramento, California.
Hatch, Meteorological Observations at Sacramento, California.
Froebel, Remarks Contributing to the Physical Geography of the North American Continent.
Strang, Natural History of Beaver Island, Michigan.
Eoff, Habits of the Black Bass of the Ohio.
Head, Natural History of the Country about Fort Ripley, Minnesota.
Parvin, Habits of the Gopher of Illinois.
Mann, Habits of a Species of Salamander.
Hoy, On the Amblystoma Luridum, a Salamander inhabiting Wisconsin.
Carleton, Diary of an Excursion in New Mexico.
Baird, Fishes on the Coast of New Jersey and Long Island.
Foster, Catalogue of Rocks, Minerals, etc.
Whitney, Catalogue of Rocks, Minerals, etc.
Berlandier, Catalogue of Collection of Historical and Geographical Manuscripts, Maps, etc.
Copyrights, Circular Respecting.

Report for 1855.

Correspondence:
Examination of Spencer’s Telescope, Hamilton College, Clinton, N. Y.
Thanks to Smithsonian Institution for Exchanges, American Academy of Arts and Sciences, Boston, Mass.
On Plaster Casts of Antique and Modern Statues, etc. Wm. J. Stone.
Meteorological System for every State. Illinois State Board of Education.
Report of Senate Judiciary Committee on the Management of the Smithsonian Institution, Feb. 6, 1855.
Harvey, Lecture on Marine Algae.
Morris, Lecture on Natural History as applied to Farming and Gardening.
Morris, Lecture on Insect Instincts and Transformations.
Chace, Lecture on Oxygen and its Combinations.
Smith, Lecture on Meteoric Stones.
Snell, Lecture on Planetary Disturbances.
Logan, On the Climate of California.
Morris and Henry, Quantity of Rain at Different Heights.
Goyot and Henry, Directions for Meteorological Observations.
Henry, Earthquake Directions.
Henry, Aurora Directions.
Green’s Barometer.
Registration of Periodical Phenomena.
LIST OF SMITHSONIAN PUBLICATIONS.

MASTERMAN, Observations on Thunder and Lightning.
LettEERMAN, Sketch of the Navajo Indians.
CLINGMAN, Topography of Black Mountain, North Carolina.
New Mexico, Spanish Works on, Communication relative to Publication of.

Report for 1856.

Kohl, On a Collection of the Charts and Maps of America.
Henry, Syllabus of a Course of Lectures on Physics.
Henry, Acoustics applied to Public Buildings.
BAIRD, Directions for Collecting, Preserving, and Transporting Specimens of Natural History.
Gill, Fishes of New York.
Guest, Ancient Indian Remains near Prescott, Canada West.
ShawPless and Patterson, Phonography.
Institutions in which Phonography is taught.
Henry, On the Mode of Testing Building Materials, and an account of the marble used in the extension of the United States Capitol.
Smallwood, Description of the Observatory at St. Martin, Isle Jesus, Canada East.
Muller, Report of Recent Progress in Physics—Electricity.

Report for 1857.

Stanley, Offer of Sale of Gallery of Indian Portraits, Report of Committee of Regents on.
ContAxAkI, Present of Ornamental Album from Greece.
Telegraph, Statement of S. P. Chase.
Telegraph, Statement of Dr. L. D. Gale.
Telegraph, Statement of James Hall.
Telegraph, Statement of Chas. Mason.
Telegraph, Statement of Prof. Henry.
Telegraph, Deposition of Prof. Henry, Sept. 1849.
Henry, Communication relative to a Publication by Prof. Morse.
Report of Special Committee of Board of Regents on the Comm. of Prof. Henry relative to the Electro-Magnetic Telegraph.
LeCOntr, Lecture on Coal.
Alexander, Lecture on Vastness of the Visible Creation.
Fendler, Meteorology and Ethnology, Colonia Tovar, Venezuela, S. A.
LOGAN, Meteorology, Sacramento, California.
Dewey, On Best Hours to find Mean Temperatures.
WissNER, Meteorology of the District of Columbia.
Masterman, Observations on Natural Phenomena, Shooting Stars, Aurora, etc.
Muller, Report on Recent Progress in Physics—Electricity, Galvanism.
List of Smithsonian Publications.

Report for 1858.

Correspondence:
- Free Freight between Germany and United States to Smithsonian Institution by the North German Lloyd. R. Schleiden.

Caswell, Lecture on Astronomy.
Cuvier, Memoir of Priestley.
Instructions for Collecting Nests and Eggs of American Birds.
Instructions for Collecting Insects.
LeConte, Instructions for Collecting Coleoptera.
Clemens, Instructions for Collecting Hymenoptera.
Uhler, Instructions for Collecting Orthoptera.
Uhler, Instructions for Collecting Hemiptera.
Uhler, Instructions for Collecting Neuroptera.
Loew and Osten Sacken, Instructions for Collecting Diptera.
Clemens, Instructions for Collecting Lepidoptera.

Taylor, Grasshoppers and Locusts of America.
Motschulsky, On Means of Destroying the Grasshopper.
Martinus, Vegetable Colonization of the British Isles of Shetland, Faroe, and Iceland.
DeCandolle, Causes which Limit Vegetable Species towards the North in Europe and Similar Regions.
Cooper, Distribution of the Forests and Trees of North America, and Catalogue of the Native Trees of the United States.
Blackstone, Bland, and Willis, Birds of Nova Scotia.
Bland and Willis, Birds of Bermuda.
Duprez, Atmospheric Electricity.
Müller, Recent Progress in Physics—Galvanism.
Meteorological Stations, Cost of Establishment of.
Meteorological Stations of Upper Canada.
Dudley, Earthquake at New Madrid, Missouri.
Naill, Dispersion of a Cloud by an Electrical Discharge.
Hare, Method of Forming Small Weights.
Friedländer, Plan of a Bibliography.
Lyon, Antiquities from Kentucky.
Gardiner, Barometer, Rain and Snow Gages.
Guest, Snow Gage.
Gardiner, Opening and Closing of Kennebec River, Maine.
Canudas, Earthquakes in Guatemala.
Humphreys, Method of Ascertaining the Amount of Water in Rivers.

Report for 1859.

Pearce, Notice of Richard Rush.
Felton, Notice of W. W. Turner.
Felton, Notice of Washington Irving.
Bache, Notice of James P. Espy.
Bache, Notice of G. Würdemann.
Henry, Notice of Parker Cleaveland.
LIST OF SMITHSONIAN PUBLICATIONS.

Correspondence:

Presentation of books. Duke of Northumberland.
Priestley's lens
Free Freight to Smithsonian Institution, between United States and England. E. Cunard.
Observations in Hudson's Bay Territory. B. R. Ross.

Johnson, Lectures on Agricultural Chemistry.
Carpenter, Lectures on the Shells of the Gulf of California.
Medler, Movement of the Stars around a Central Point.
De la Rive, Report on the Transactions of the Society of Physics and Natural History of Geneva, from July, 1858, to June, 1859.

Reitz, Present State of Ethnology in relation to the Form of the Human Skull.
Flourens, Memoir of Pyramus de Candolle.
Airy, On the Means which will be available for Correcting the Measures of the Sun's Distance in the next Twenty-five Years.

Powell, Reports on the State of Knowledge of Radiant Heat, made to the British Association in 1832, 1840, and 1854.

Hilgard, Description of the Magnetic Observatory at the Smithsonian Institution.

Mallet, On Observation of Earthquake Phenomena.
Casella, Description of Meteorological Instruments.
Green and Würdemann, On Filling Barometer Tubes.

Welsh, The Construction of a Standard Barometer, and Apparatus and Processes employed in the Verification of Barometers at the Kew Observatory.

Report for 1860.

Correspondence:

Presentation of Books on Egypt. R. Lepsius.
On Smithsonian Exchanges. F. Müller.
On Smithsonian Exchanges. Wm. Hineks.

Henry, Reply to Memorial on Lowe's Aeronautic Voyage.
Rogers, Lectures on Roads and Bridges.
Carpenter, Lectures on Mollusca, or shell-fish, and their Allies.
Morlot, General Views on Archaeology.
The Microscope.

Nicklès, Scientific Congress of Carlsruhe, 1858.
Cuvier, Memoir of René Just Haüy.
Sabine, Magnetic Storms.
Gardiner, Disappearance of Ice.
Fendler, Temperature of St. Louis, Missouri.
Dewey, Best Hours for Temperature Observations.

Henry, Description of Smithsonian Anemometer.
Newton, Suggestions for saving parts of the skeleton of birds.
Vollum, On the Wingless Grasshopper of California.
Wurdeman, Specimens of Flamingo, etc., from South Florida.
Gesner, Habits of Pouched Rat, or Salamander of Georgia.
Barnard, Birds of Chester County, Pennsylvania.
Cooper, Forests and Trees of Florida and the Mexican Boundary.

Report for 1861.

Correspondence:
Smithsonian's Residuary Legacy. Fladgate, Clarke, and Finch.
Free Freight to Smithsonian Institution, between United States and Germany. Kunhardt & Co.
Lacustrian Habitations. F. Troyon.
Archaeology. A. Morlot.
Map of Antiquities of United States. A. J. Hill.
Exchanges. Royal Academy of Science, Madrid.
Neuroptera. H. Hagen.
Exchange of Specimens. Hamilton College, Clinton, N. Y.
Arrangement of Mineralogical Collection. C. U. Shepard.
Scientific Co-operation. University of Toronto.
Acknowledgment for Books. C. J. Bethune.
Acknowledgment for Shells, etc. W. H. Pease.
Circular of the Institute of Rupert's Land.
Facts respecting Liberia College. A. Crummell.
Recommendation of Shea's Indian Linguistics. G. Gibbs and others.

Woolsey, Eulogy on Cornelius C. Felton.
Cox, Eulogy on Stephen A. Douglas.
Rogers, Lecture on Bridges.
Alexander, Lecture on the Relations of Time and Space.
Hayes, Lecture on Arctic Explorations.
Foucres, Memoir of Geoffrey Saint Hilaire.
Laugel, The Sun, its Chemical Analysis.
Lee, Progress of Astronomical Photography.
Lespiault, Small Planets between Mars and Jupiter.
Dufour and Kämz, Scintillation of the Stars.
Daurée, Metamorphism and the Formation of Crystalline Rocks.
Craig, Nitrification.
Hust, History of Petroleum or Rock-oil.
Allen, Explosibility of Coal Oils.
Destructive Effect of Iron-rust.
Troyon, Lacustrian Cities of Switzerland.
Rutimeyer, Fauna of Middle Europe during the Stone Age.
Troyon, Report on Ethnological Collections of Museum at Lausanne.
Troyon, Archaeological Researches made at Concise.
LIST OF SMITHSONIAN PUBLICATIONS.

Peale, Ancient Mounds in St. Louis, Missouri.
Gibbs, Instructions for Archeological Investigations.
Circular, Ancient Mining in Lake Superior Copper Region.
Morgan, Suggestions relative to Ethnological Map of North America.

Prize Questions:
- Holland Society of Science, Harlem.
- Batavian Society of Experimental Philosophy of Rotterdam.
- Society of Arts and Sciences of Utrecht.
- Royal Academy of Netherlands.

Report for 1862.

Correspondence:
- Deposit of Beaufort Library. E. M. Stanton, Secretary of War.
- On Mountain Measurements. A. Guyot.
- Investigations of Biela's Comet. J. S. Hubbard.
- Ethnographical Collections. Theodore Lyman.
- Ethnographical Collections. H. de Schlagintweit.
- Antiquities in Missouri and Tenn. I. Dille.
- Skulls and Mummy from Patagonia. A. Reid.
- Natural History of Pacific Islands. W. H. Pease.
- Herbarium captured in Tennessee. Dr. H. R. Wirtz.
- Hymenoptera. H. De Sanssouire.
- Explorations of John Xantus in Mexico. M. Romero.
- Bache, Eulogy on James A. Pearce.
- Barnard, Lectures on the Undulatory Theory of Light.
- Wilson, Lectures on Physical Ethnology.
- Morlot, Lecture on the Study of High Antiquity.
- Flourens, Historical Sketch of the Academy of Sciences of Paris.
- Flourens, Memoir of Leopold von Buch.
- Flourens, Memoir of Louis Jacques Thenard.
- Quatrefages, Memoir of Isidore Geoffroy St. Hilaire.
- Herschel, On Atoms.
- Lesley, On the Classification of Books.
- Ried, Human Remains from Patagonia.
Prize Questions:
- London Institution of Civil Engineers.
- Provincial Society of Arts and Sciences, Utrecht.
- Royal Danish Society of Sciences.
- Academy of Sciences of the Institute of Bologna.

Report for 1863.

Correspondence:
- Project of an Outline History of Education in the United States. F. A. Packard.
- Exchange of Publications. Chamber of Commerce of Bordeaux.
- Tucson Meteorite. Dr. B. J. D. Irwin.
- Tucson Meteorite. Santiago Ainsa.
- Cone-in-cone. Henry Poole.
- Ethnological Specimens presented. University of Christiania, Norway.
- Tertiary Fossils presented. Imp. Geol. Institute, Vienna.
- Electrotypes of Shell Engravings granted. British Museum.
- Acknowledgment of Perennibranchiates. Dr. J. G. Fisher.
- Honorary Medal to Von Martius. W. Haidinger.
- Kennicott's Explorations. Hudson's Bay Co.

Alexander, Origin and History of the Royal Society of London.
Wetherill, Modern Theory of Chemical Types.
De la Rive, Phenomena which accompany the Propagation of Electricity in highly Rarefied Elastic Fluids.
History of Discovery relative to Magnetism.
Gautier, Researches relative to the Nebula.
Merino, Figure of the Earth.
Arago, Aeronautic Voyages, etc.
Glaisher, Account of Balloon Ascensions.
Baegert, Aboriginal Inhabitants of the California Peninsula.
Jones, Kjokken-Mudding in Nova Scotia.
Rat, Agricultural Implements of the North American Stone Period.
Trowbridge, Ancient Fort and Burial Ground in Tompkins County, N. Y.
Kelley, Ancient Town in Minnesota.
Foster, Ancient Relics in Missouri.
Danilson, Mound in East Tennessee.
Purple Dyeing, Ancient and Modern.
Peale, Method of Preserving Lepidoptera.
Figanierre, Account of remarkable accumulation of Bats.
Tables of English and French Weights and Measures.
Table for Conversion of Centigrade Degrees to Fahrenheit's Scale.

Report for 1864.

WEBB, Account of Prof. Henry Draper's Telescope.
LEIDY, Review of "Cretaceous Reptiles of United States."
FOURIER, Memoir of Delambre.
DELAUNAY, Essay on the Velocity of Light.
WETHERILL, Ozone and Autozone.
JAMIN, Vegetation and the Atmosphere.
BECQUELER, Preservation of Copper and Iron in Salt Water.
Preservation of Wood.
CAOUTCHOUC and GUTTA PERCHA.
VON KAROLYI and CRAIG, Products of the Combustion of Gun-Cotton and Gunpowder.
PETTENKOFER, Apparatus for testing the results of Perspiration and Respiration.
DEPRADOS, Eclipse of the Sun, April 25, 1865.
TROYON, On the Cranial Helvetica.
PLATJRAU, Experimental and Theoretical Researches on the Figures of Equilibrium of a liquid mass withdrawn from the action of gravity, etc. Parts II, III, IV.
RAU, Artificial Shell Deposits in New Jersey.
GIBBS, The Intermixture of Races.
BAEGERT, Aboriginal Inhabitants of the California Peninsula. Part II.
MORLOT, The Study of High Antiquity in Europe.
Prize Questions:
Holland Society of Sciences at Harlem.
Imperial Society of Natural Sciences of Cherbourg.
Royal Prussian Academy of Sciences.
Imperial Academy of Sciences at Vienna.
Explorations:
Scientific Expedition to Mexico. A Report Addressed to the Emperor of France by the Minister of Public Instruction.
A Journey to the Yukon, Russian America, by W. W. Kirby.
Exploration in Upper California in 1830, by John Felker, U. S. A.
Journal of an Exploration of Western Missouri in 1854, by P. R. Hoy, M. D.
Tables of English and French Weights and Measures.
Table of Chemical Equivalents of sixty-three Elements.
LIST OF SMITHSONIAN PUBLICATIONS.

Report for 1865.

Correspondence:

Letter to Secretary of Treasury on payment of interest in coin. Prof. Henry.

Report on Shells presented to Acad. of Nat. Sciences. J. Leidy and G. W. Tryon.


Explorations of the Nile. Chas. Hale.


Chalk found in United States. T. A. Conrad.

Acknowledgment for Specimens. Regents of Univ. of State of N. Y.

Language of Navajos said to resemble the Welsh. S. Y. McMasters.


Books on Brazil presented. M. M. Lisbon.


Request for Bison. Bern Museum.

Books presented. Imperial Library of Vienna.

Introducing and Recommending Dr. Berendt. F. W. A. Bruce, British Minister.

Introducing and Recommending Dr. Berendt. A. T. De Irisarri, Guatemalan Minister.

Introducing and Recommending Dr. Berendt. L. Molina, Costa Rican Minister.

Exchange System. J. Rosing.


Acknowledgment of Specimens. British Museum.

Objects of the Museum. Toronto University.


Act of Congress to transfer Smithsonian Library to Library of Congress.


Florens, Memoir of Ducrotay de Blainville.


Loomis, Aurora Borealis, or Polar Light; its Phenomena and Laws.

The Senses:

Sense of Feeling.

Sense of Smell.

Matteucci, Lectures on Electro-Physiology.

Desor, Palafittes or Lacustrian Constructions of the Lake of Neuchatel.

Plateau, Experimental and Theoretical Researches on the Figures of Equilibrium of a liquid mass withdrawn from the action of gravity, etc. Part V.
LIST OF SMITHSONIAN PUBLICATIONS.

Lilljeborg, Outline of a Systematic Review of the Classification of Birds.

Prize Questions:
- Royal Danish Society of Sciences,
- Imperial Academy of Sciences of Vienna,
- Pontifical Academy of the Nuovi Lincei,
- Royal Scientific and Literary Institute of Lombardy,
- Imperial Society of Science, Agriculture, and Arts of Lille.
- Dunkirk Society for the Encouragement of Sciences, Letters, and Arts.

Newton, Metric System of Weights and Measures, with Tables.

Report for 1866.

Act of Congress to receive into the United States Treasury, the Residuary Legacy of Smithson, etc. etc.

Memorial of Board of Regents to Congress relative to the Fund.

Memorandum of W. W. Seaton.

Flourens, Memoir of Magendie.

The Senses:
- Sense of Taste.
- Sense of Hearing.
- Sense of Sight.

Huggins, Results of Spectrum Analysis applied to the Heavenly Bodies.

External Appearance of the Sun's Disk.

Moigno, Accidental or Subjective Colors: Persistence of Images, Contrast, Irradiation, Daltonism, etc.

Plateau, Figures of Equilibrium of a liquid mass withdrawn from the action of gravity. Part VI.


Von Hellwald, The American Migration, with Notes by Prof. Henry.

Rau, Indian Pottery.

Brinton, Artificial Shell Deposits of the United States.

Dille, Sketch of Ancient Earth-works of Ohio.

Pile-work Antiquities of Olmutz.

Estes, Antiquities on the Banks of the Mississippi River and Lake Pepin.


Davis, On Ethnological Research.

Scherzer and Schwarz, Table of Anthropological Measurements.

International Archeological Congress, organized by the Archeological Academy of Belgium, in concert with the French Society of Archaeology. Antwerp, 1866.

Higgins, On Vitality, with Notes by Prof. Henry.

Lewis, Instructions for Collecting Land and Fresh-water Shells.

Wood, Instructions for Collecting Myriapods, Phalangidae, etc.
LIST OF SMITHSONIAN PUBLICATIONS.

Wetherill, Plan of a Research upon the Atmosphere.
Lewis and Qualle, Account of the Cryolite of Greenland.
Extracts from the Meteorological Correspondence of the Institution, with
Remarks by Prof. Henry.
Evaporation in Florida. W. C. Dennis.
Fresh-water in the Ocean. W. C. Dennis.
The Winds. C. Dewey.
Winds in Florida. J. Baltzell.
Barometer Tube breaking suddenly. L. F. Ward.
Meteors. Seth. L. Andrews.
Climate of Kelley's Island, Ohio. G. C. Huntington.
Changes of Wind. C. Mallinikroot.
Meteorological Discovery. F. L. Capen.
Meteorology of Colonia Tovar. A. Fendler.
Effect of Lightning. S. L. Hillier.
Climate of Alaska. H. M. Bannister.

VAILLANT, Horary Variations of the Barometer, with Notes by Prof. Henry.
ENGLEHARDT, Formation of Ice at the Bottom of Water.
SARTORIUS, Earthquake in Eastern Mexico, January, 1866.
DREUTZER, Statistics relative to Norwegian Mountains, Lakes, and the Snow-line.

Report for 1867.

Correspondence:
Exchange System. Amer. Acad. Arts and Sciences.
New System of Weights and Measures with 8 as the Metrical Number.
G. H. Knight.
Exchange System. Bath and West of Eng. Soc. for Encour. of Agric.,
Arts, etc.
Acknowledgment for Specimens. Chicago Acad. of Sciences.
Schlagintweit Ethnographic Collection. H. Zisgenbals.
Sparrows sent to United States. W. A. Lloyd.
Exchange of Specimens. W. A. Lloyd.
Acknowledgment for Books on Education. M. Laboulaye.
Acknowledgment of Birds. Acad. of Sciences, Stockholm.

GUILD, Biographical Notice of Chas. C. Jewett.
GRAY, Biographical Notice of W. H. Harvey.
AGASSIZ Report on use of new hall in Smithsonian Building.
Memorial of Regents to Congress asking Appropriations for Museum.
DeBEAUMONT, Memoir of Legende.
LIST OF SMITHSONIAN PUBLICATIONS.

Peltier, Memoir of J. C. A. Peltier.
Appendix to Memoir of Peltier. Scientific Researches.
Mailly, History of Royal Institution of Great Britain.
De la Rive, Michael Faraday, his Life and Works.
Flourens, The Jussieus and the Natural Method.
Marky, Natural History of Organized Bodies.
Matteucci, On the Electrical Currents of the Earth.
Considerations on Electricity.
Electricity—Account of Lightning Discharges, with Notes by Prof. Henry.
G. W. Dodge, O. M. Poe, J. C. Cresson, H. Haas, H. J. Kron, B. F. Mudge,
Darwin, Queries about Expression for Anthropological Inquiry.
Pettigrew, Modes of Flight in relation to Aeronautics.
Man as the Contemporary of the Mammoth and the Reindeer in Middle Europe.
Jamin, Photo-Chemistry.
Abbe, Description of the Observatories at Dorpat and Pulkova.
Taylor, On Traces of the early mental condition of Man.
Ethnology:
Indian Remains, Red River Settlement, Hudson’s Bay Territory. D. Gunn.
Ancient Mound near Chattanooga, Tenn. M. C. Read.
Ancient Remains in Colorado. E. L. Berthoud.
Mounds in Mississippi. Samuel A. Agnew.
Cave in Calaveras County, California. J. D. Whitney.
Ethnological Department of the French Exposition, 1867.
Notes on Indian History. Dr. F. V. Hayden.
Description of a Human Skull from Rock Bluff, Ill. Dr. J. A. Meigs.
Introduction to the study of the Coptic Language. M. Kabis.
Notes on the Tonto Apaches. Captain Charles Smart.
Berendt, Explorations in Central America.
Gunn, Notes of an Egging Expedition to Shoal Lake, Lake Winnipeg.
Rothrock, Sketch of the Flora of Alaska.
Meteorology:
Hurricane in the Island of St. Thomas.
Earthquakes in St. Thomas. George A. Latimer.
Maritime Disasters of the Antilles.
Cloud-bursts. William J. Young.
Meteorite in Mexico. A. Woodworth.
Meteorite in Mexico. Robert Simson.
Meteorology of Caracas, South America. G. A. Ernst.
On Barometer Tables. F. F. Tuckett.
Great Hurricane at Tortola, St. Thomas, and Porto Rico. G. A. Latimer.
Cyclone in the Indian Ocean. N. Pike.
Prize Questions:
Royal Danish Society of Sciences.
Pontifical Academy of the Nuovi Lincei.
De la Rue, Abbreviations used in England, 1867.
Report for 1868.

Flourens, Memoir of Cuvier.
Flourens, History of the Works of Cuvier.
De Beaumont, Memoir of Oersted.
Notice of Christian Frederic Schöenbein, the discoverer of Ozone.
Appendix to Notice of Schöenbein, by Professor Henry.
Hagen, Memoir of Bucke.
Rawson, Memoir of Eaton Hodgkinson.
Cazin, Recent Progress in relation to the Theory of Heat.
Müller, Principles of the Mechanical Theory of Heat.
Magrini, Continuous vibratory movement of all matter, ponderable and imponderable.
Tysdall, Radiation.
Dubreux, Synthetic Experiments relative to Meteorites.
Brush, Catalogue of Meteorites in the Mineralogical Collection of Yale College.
Desassure, Observations on the electric resonance of mountains.
Stewart, Experiments on Aneroid Barometers made at the Kew Observatory.
Ellery, Address of the President of the Royal Society of Victoria.
Broca, History of the Transactions of the Anthropological Society of Paris, from 1865 to 1867.
Rau, Drilling in Stone without Metal.
Rau, Agricultural Flint Implements in Southern Illinois.
Prize Questions:
Holland Society of Sciences of Harlem.
Imperial Academy of Sciences, Belles Lettres, and Arts, of Bordeaux.
Pollock, Assay of Gold and Silver Coins at the Mint of the United States.
Table of Foreign Gold and Silver Coins.
List of Publications of the Smithsonian Institution up to July, 1869, with Systematic and Alphabetical Index.

Report for 1869.

Berthrand, Kepler: his Life and Works.
Arago, Eulogy on Thomas Young.
De Beaumont, Memoir of Auguste Bravais.
Rau, Memoir of C. F. P. Von Martius.
Matteucci, Life and Scientific Labors of Stefano Marianini.
Hunt, Chemistry of the Earth.
Matteucci, Electrical Currents of the Earth.
Marey, Phenomena of Flight in the Animal Kingdom.
Babinet, The Northern Seas.
Simpson, Coronado's March in search of the "Seven Cities of Cibola."
Lubbock, Social and religious condition of the lower races of Man.
Huxley, Principles and Methods of Palaeontology.
Schott, Remarks on the "Cara Gigantesca" of Yzamal, in Yucatan.
Becquerel, Forests and their Climatic Influence.
Brenndecke, Meteorites.
Abich, Remarkable Forms of Hail-stones in Georgia.
Sartories, Eruption of the Volcano of Colima.

Report for 1870.

Henry, Eulogy on Alexander Dallas Bache.
Bache, Lecture on Switzerland.
Henry, On a Physical Observatory.
Arago, Eulogy on Herschel.
Life and Labors of Henry Gustavus Magnus.
Anderson, Life of Prof. Chester Dewey.
Taylor, Thoughts on the nature and origin of Force.
Von Liebig, Induction and Deduction.
Haighton, Relation of food to work, and its bearing on medical practice.
Reynolds, Hydrogen as a Gas and as a Metal.
Wiseman, Identification of the Artisan and Artist.
Baehret, The Diamond and other Precious Stones.

Ethnology:
On Antiquities in some of the Southern States. H. C. Williams.
Ethnology of the Indians of the Valley of the Red River of the North.
Dr. W. H. Gardner.
Account of Antiquities in the State of Vera Cruz, Mexico. Hugo Finck, of Cordova.
Account of Ancient Mounds in Georgia. M. F. Stephenson, Gainesville, Georgia.
Account of the Sarcoaphagus in the National Museum, now in charge of the Smithsonian Institution. Rear Admiral A. A. Harwood, United States Navy.
Sketch of Ancient Earthworks on the Upper Missouri. A. Barrandt.
Account of Aboriginal Ruins at Savannah, Tennessee. J. Parish Stelle.
Account of Aboriginal Ruins on the Williams Farm, in Hardin County, Tennessee, two miles below Savannah, Tennessee. J. Parish Stelle.
LIST OF SMITHSONIAN PUBLICATIONS.

Terrestrial Physics:
- The Earthquake in Peru, August 13, 1868. J. V. Campbell.
- The Electro-Magnetic Seismograph. Prof. Palmieri, of the University of Naples.
- Influence of the Aurora on the Telegraph. W. D. Sargent.

Meteorology:
- New Classification of Clouds. Prof. Andre Poey.
- On the Evaporation observed at Palermo in 1865 and 1866. P. Tacchini.
- On the Electricity of Induction in the Aerial Strata of the Atmosphere, which, in the Shape of a Ring, surround a Cloud that is resolving into Rain, Snow, or Hail. Prof. Fr. Zantedeschi.
- On the presence of Electricity during the fall of Rain. Prof. Palmieri, of the Vesuvius Observatory.
- Climate of Kansas. R. S. Elliott.
- Account of a Hail-storm on the Bosphorus. From Porter's Constantinople.
- Account of a Hail-storm in Texas. Lieutenant George M. Bache.

Report for 1871.

Meteorological Articles received by the Institution, and deposited in the Library of Congress. Auroras, Earthquakes, etc. etc. etc.
- Dodge, Memoir of Sir John Frederick William Herschel.
- Arago, Eulogy on Joseph Fourier.
- Odling, Professor Thomas Graham's Scientific Work.
- Helmholtz, On the Relation of the Physical Sciences to Science in General.
- Kornhuber, Alternate Generation and Parthenogenesis in the Animal Kingdom.
- Reichardt, Present State of our Knowledge of Cryptogamous Plants.
- Stockwell, Recent Researches on the Secular Variations of the Planetary Orbits.
- DeForest, Methods of Interpolation applicable to the graduation of irregular series, such as Tables of Mortality. Part I.

Expedition toward the North Pole:
- Scientific Instructions to Captain Hall. Henry, Hilgard, Newcomb, Baird, Meek, Agassiz.

Ethnology:
- Indian Mounds near Fort Winfield, Dakota. Dr. A. J. Comfort.
- Antiquities on the Cache la Poudre River, Weld County, Colorado Territory. E. L. Berthoud.
- Antiquities in New Mexico. W. B. Lyon.
- Antiquities in Lenoir County, North Carolina. J. Mason Spainhour.
- Account of the Old Indian Village, Kushkushkee, near Newcastle, Pennsylvania. E. M. McConnell.
- Pima Indians, of Arizona. Captain F. E. Grossmann.
- Indian mode of making Arrow-heads and obtaining Fire. General George Crook.
LIST OF SMITHSONIAN PUBLICATIONS.

Ethnology:
Ancient Mound near Lexington, Kentucky. Dr. Robert Peter.
Shell-heap in Georgia. D. Brown.
Remarks on an Ancient Relic of Maya Sculpture. Dr. Arthur Schott.
Ancient History of North America, communication to the Anthropological Society of Vienna. Dr. M. Much.

Meteorology, with Notes by Professor Henry:
Meteorology of Porto Rico. George Latimer.
Distinction between Tornadoes and Tempests. Lamarck.
Account of a Tornado which occurred in Spruce Creek Valley, Centre County, Pennsylvania. Rev. J. B. Meek.
Effect of the Moon on the Weather.
Connection of Gales of Wind, and appearance of the Aurora. R. T. Knight.
Account of a Storm in Butler County, Kansas, June 23, 1871. William Harrison.

Report for 1872.

Report of Committee of Regents on Corcoran Art Gallery.
Agassiz, Narrative of the Hassler Expedition.
Bache, Bequest to National Academy of Sciences.
Corcoran, Deed of Gift of Art Gallery.
Toner, Deed of foundation of Toner Lectures.
Tyndall, Trust for the Promotion of Science in the United States.
Hamilton, Bequest of $1000 to Smithsonian Institution.
Henry, Circular sent with Specimens presented.
Arago, Eulogy on Ampère.
Fischer, Scientific Labors of Edw. Lartet.
Peabody, Scientific education of mechanics and artisans.
Bauer, Organic Bases.
Kletzinsky, Nitrogen bodies of modern chemistry.
Egleston, Scheme for the qualitative determination of substances by the Blowpipe.
Blowpipe Apparatus of Hawkins and Wale.
Suess, Boundary-line between Geology and History.
Brezina, Explanation of the principles of Crystallography and Crystallo-

Weikoff, Meteorology in Russia.
Donati, Phenomena in telegraphic lines during the Aurora Borealis.

Ethnology:
The Troglodytes, or Cave-dwellers, of the Valley of the Vézere. Paul Broca.
Ancient Aboriginal Trade in North America. Charles Rau.
Indian Engravings on the face of rocks along Green River valley in the Sierra Nevada. J. G. Bruff.
LIST OF SMITHSONIAN PUBLICATIONS.

Ethnology:

Haystack Mound, Lincoln County, Dakota. A. Barrandt.
Earthworks in Wisconsin. E. E. Breed.
Mound in Wisconsin. C. K. Dean.
Big Elephant Mound in Grant County, Wisconsin. Jared Warner.
Ancient Relics in Northwestern Iowa. J. B. Cutts.
Mounds near Anna, Union County, Illinois. T. M. Perrin.
Ancient Mounds in Kentucky. Dr. Robert Peter.
Mounds in Bartow County, Georgia. M. F. Stephenson.
Mounds in McIntosh and Early Counties, Georgia. Wm. McKinley.
Indian Remains in Caddo Parish, Louisiana. T. P. Hotchkiss.
Mounds in Louisiana. Prof. Samuel H. Lockett.
Catalogue of cabinet of Indian relics presented by J. H. Devereux to
Smithsonian Institution.
Ancient Pottery from Phillips County, Arkansas. J. H. Devereux.
On the Accuracy of Catlin’s Account of the Mandan Ceremonies. James Kipp.

Report for 1873.

Garfield, Biographical Notice of S. P. Chase and L. Agassiz.
Hamlin, Biographical Notice of S. P. Chase.
Parker, Biographical Notice of L. Agassiz.
Hamilton, Bequest deposited in United States Treasury.
Dodge, Memoir of Charles Babbage.
Stebbins, Memoir of Louis Agassiz.
Gray, Memoir of John Torrey.
Stevens, Memoir of George Gibbs.
Dalton, Origin and Propagation of Disease.
Helmholtz and Maxwell, Later views of the connection of Electricity and
Magnetism.
Goeld, Account of the Astronomical Observatory at Cordoba, Argentine
Republic.
Morin, Warming and Ventilating Buildings. Part I.
DeForest, Additions to a Memoir on methods of interpolation. Part II.

Ethnology:

Remarks on the Kjūkken-Möddings on the Northwest Coast of America.
Paul Schumacher.

On a Grammar and Dictionary of the Carib or Karif Language, with
some Account of the People by whom it is spoken. Dr. C. H. Berendt.
Antiquities of Union County, Illinois. Thomas M. Perrine.
Antiquities of Knox County, Indiana, and Lawrence County, Illinois.
Dr. A. Patton.
LIST OF SMITHSONIAN PUBLICATIONS.

Miscellaneous Correspondence:
- Explorations on the Western Coast of North America. Wm. H. Dall.
- Discovery of a large Meteorite in Mexico. William M. Pierson.

Prize Questions of Scientific Societies:
- Society for the Encouragement of Science, Literature, and Art, Dunkirk, France.
- Society of Science, Art, and Literature, Hainaut, France.
- Royal Institute for the Encouragement of the Natural, Economical, and Technological Sciences, Naples, Italy.
- Royal Academy of Science, Literature, and the Fine Arts, Brussels, Belgium.
- Society of Sciences of Haarlem, Holland.

Report for 1874.

- Arago, Eulogy on La Place.
- Mailly, Eulogy on Quetelet.
- Dumas, Eulogy on A. A. De la Rive.
- Hilgard, Tides and Tidal Action in Harbors.
- Lemström and De la Rive, Electricity of the Atmosphere and the Aurora Borealis.
- DeCandolle and Gray, On a Dominant Language for Science.
- Schott and Everett, Underground Temperature.
- Dupre and Henry, Earthquakes in North Carolina, 1874.
- Morin, Warming and Ventilating Buildings. Part II.

Ethnology:
- Account of the Burial of an Indian Squaw, San Bernardino County, California. W. M. King.
- Ancient Mounds of Mercer County, Illinois. Tyler McWhorter.
  Dr. R. J. Farquharson.
- The Shell-bed Skull. A. S. Tiffany.
- Antiquities of Northern Ohio. Dr. George W. Hill.
- The Age of Stone, and the Troglodytes of Breckinridge County, Kentucky.
  R. S. Robertson.
- Antiquities of Isle Royale, Lake Superior. A. C. Davis.
- Antiquities of Tennessee. Dr. Daniel F. Wright.
- Antiquities of Blount County, Tennessee. Miss Annie E. Law.
- Antiquities of La Porte County, Indiana. R. S. Robertson.
LIST OF SMITHSONIAN PUBLICATIONS.

Ethnology:
- Antiquities of Perry County, Ohio. W. Anderson.
- Antiquities of Charles County, Maryland. Oliver N. Bryan.
- Antiquities of Florida. Dr. Augustus Mitchell.

Report for 1875.

Baird, Report on the proposed plan of Exhibit by the Smithsonian Institution at the International Centennial Exhibition at Philadelphia.

Parker, Eulogy on Henry Wilson.

Arago, Eulogy on Alexander Volta.

DeCandolle, Probable Future of the Human Race.


Prestwich, The Past and Future of Geology.

Wex, Diminution of the Water of Rivers and Streams.

Taylor, Refraction of Sound.

Henry, Organization of Local Scientific Societies.

Ethnology:
- International Code of Symbols for Charts of Pre-historic Archaeology. Mortillet and Chautre.
- The Stone-age in New Jersey. Dr. C. C. Abbott.

Report for 1876.


Centennial Awards to Smithsonian Institution.

Fialho, Biographical Sketch of Dom Pedro II.

Arago, Eulogy on Gay Lussac.

Taylor, Kinetic Theories of Gravitation.

Pilar, The Revolutions of the Crust of the Earth.

Kirkwood, The Asteroids between Mars and Jupiter.

McParlin, Notes on the History and Climate of New Mexico.

Ethnology:
- Prehistoric Antiquities of Hungary. F. F. Romer.
- Collection of Historical Documents in Guatemala. Dr. C. H. Perendt.
Ethnology:
Deposits of Flint Implements. J. F. Snyder.
Double-Walled Earthwork in Ashtabula County, Ohio. Stephen D. Peet.
Ancient Implement of Wood. E. W. Ellsworth.
Indian Forts and Dwellings. Dr. W. E. Doyle.
The Sioux or Dakota Indians. Col. A. G. Brackett.