

SMITHSONIAN MISCELLANEOUS COLLECTIONS.

301

LIST

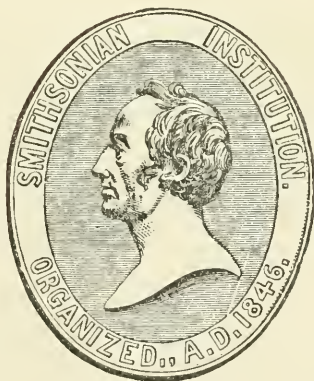
OF

PUBLICATIONS

OF THE

SMITHSONIAN INSTITUTION,

JULY, 1877.



WASHINGTON, D. C.:

JULY, 1877.



## ADVERTISEMENT.

---

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

either directly from the Institution or of its agents, Dodd, Mead, & Co., New York; B. Westermann & Co., New York; American Naturalist Agency, Salem, Mass.; Wm. Wesley, 28 Essex Street, Strand, London.

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.

---

	PAGE
Advertisement . . . . .	iii
Rules for Distribution of the Publications . . . . .	v
List of Smithsonian Publications in numerical order . . . . .	1
Systematic List of titles of Smithsonian Publications . . . . .	15
Contents of Smithsonian Contributions, Vols. I to XXI . . . . .	15
Contents of Miscellaneous Collections, Vols. I to XII . . . . .	20
List of Annual Reports, 1 to 31 . . . . .	23
Systematic Index to Smithsonian Contributions to Knowledge and Miscellaneous Collections . . . . .	25
Alphabetical Index to Smithsonian Contributions and Miscellaneous Collections . . . . .	33
List of Articles in the Appendix to the Annual Reports, 1847-1876 inclusive . . . . .	43





**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.

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
A	.....	Journal of Regents,	8vo.*	32	1846	
B	.....	Report of Organization Committee	8vo.*	32	1847	
C	.....	Digest of Act of Congress,	8vo.*	8	1847	
D	Dallas, G. M.	Address at Laying Corner Stone,	8vo *	8	1847	
E	Henry, Jos.	Exposition of Bequest,	8vo.*	8	1847	
F	.....	First Report of Secretary,	8vo.*	48	1848	
G	.....	Report of the Institution,	8vo.*	38	1847	
H	.....	Second Report of Institution,	8vo.*	208	1848	
I	.....	Third Report of Institution,	8vo.*	64	1849	
J	.....	Programme of Organization,	4to.*	4	1847	
K	.....	Correspondence, Squier & Davis,	8vo.*	8	1848	
L	.....	First Report of Organization Committee,	8vo.*	8	1846	
M	.....	Reports of Institution up to Jan. 1849,	8vo.*	72	1849	
N	.....	Officers, Regents, Act, &c.,	8vo.*	14	1846	
O	.....	Act to establish Smithsonian Institution,	8vo.*	8	1846	
P	Owen, R. D.	Hints on Public Architecture,	4to.*	140	1849	
Q	.....	Check List of Periodicals,	4to.*	28	1853	
1	Squier & Davis,	Ancient Monuments of Mississippi Valley,	S. C. 1,	346	1847	
2	.....	Smithsonian Contributions to Knowledge,	S. C. 1,	346	1848	

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
3	Walker, S. C.	Researches, Planet Neptune	S. C. II,	60	1850	
4	Walker, S. C.	Ephemeris of Neptune for 1848,	S. C. II,	8	1849	
5	Walker, S. C.	Ephemeris of Neptune for 1849,	S. C. II,	32	1849	
6	Walker, S. C.	Ephemeris of Neptune for 1850,	S. C. II,	10	1850	
7	Walker, S. C.	Ephemeris of Neptune for 1851,	S. C. II,	10	1850	
8	Downes, John	Occultations in 1848,	4to.*	12	1848	
9	Downes, John	Occultations in 1849,	4to.*	24	1848	
10	Downes, John	Occultations in 1850,	4to.*	26	1849	
11	Downes, John	Occultations in 1851,	S. C. II,	26	1850	
12	Lieber, Francis	Vocal Sounds of L. Bridgeman,	S. C. II,	32	1850	
13	Ellet, Charles	Physical Geography of U. S.	S. C. II,	64	1850	
14	Gibbes, R. W.	Memoir on Mosasaurus,	S. C. II,	14	1850	
15	Squier, E. G.	Aboriginal Monuments of N. Y.	S. C. II,	188	1850	
16	Agassiz, Louis	Classification of Insects,	S. C. II,	28	1850	
17	Hare, Robert	Explosiveness of Nitre,	S. C. II,	20	1850	
18	Gould, Jr., B. A.	Discovery of Neptune,	Svo.*	56	1850	
19	Guyot, A.	Directions for Meteorological Observations,	Svo.*	40	1850	
20	Bailey, J. W.	Microscopic Examination of Soundings,	S. C. II,	16	1851	
21	.....	Annual Report of Smithsonian Institution for 1849	8vo.	272	1850	
22	Gray, Asa	Plantæ Wrightianæ,	S. C. III,	146	1852	
23	Bailey, J. W.	Microscopic Observations in S. Carolina, Georgia, and Florida,	S. C. II,	48	1851	
24	Walker, S. C.	Ephemeris of Neptune, 1852. Appendix I,	S. C. III,	10	1853	
25	Jewett, Chas. C.	Public Libraries of United States,	Svo.*	210	1851	.50
26	.....	Smithsonian Contributions to Knowledge,	S. C. II,	464	1851	
27	Booth, J. C. and Morfit, C.	Improvements in Chemical Arts,	M. C. II,	216	1852	.50
28	.....	Annual Report of Smithsonian Institution for 1850,	Svo.	326	1851	
29	Downes, John	Occultations in 1852,	S. C. III,	34	1851	

## LIST OF SMITHSONIAN PUBLICATIONS.

3

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
30	Girard, Charles	Fresh-Water Fishes of N. America	S. C. III,	80	1851	
31	Guyot, A.	Meteorological Tables,	M. C. I,	212	1852	
32	Harvey, Wm. H.	Marine Algæ of North America. Part I,	S. C. III,	152	1852	
33	Davis, Chas. H.	Law of Deposit of Flood Tide,	S. C. III,	14	1852	.75
34	.....	Directions for Collecting Specimens,	M. C. II,	40	1859	free
35	Locke, John	Observations on Terrestrial Magnetism,	S. C. III,	30	1852	
36	Secchi, A.	Researches on Electrical Rheometry,	S. C. III,	60	1852	
37	Whittlesey, Ch.	Ancient Works in Ohio,	S. C. III,	20	1851	
38	.....	Smithsonian Contributions to Knowledge,	S. C. III,	564	1852	
39	.....	Smithsonian Contributions to Knowledge,	S. C. IV,	426	1852	
40	Riggs, S. R.	Dakota Grammar and Dictionary.	S. C. IV,	414	1852	
41	Leidy, Joseph	Extinct American Ox,	S. C. v,	20	1852	
42	Gray, Asa	Plantæ Wrightianæ. Part II,	S. C. v,	120	1853	
43	Harvey, Wm. H.	Marine Algæ of North America. Part II,	S. C. v,	262	1853	10.00
44	Leidy, Joseph	Flora and Fauna within Living Animals,	S. C. v,	68	1853	
45	Wyman, Jeffries	Anatomy of Rana Pipiens,	S. C. v,	52	1853	
46	Torrey, John	Plantæ Fremontianæ,	S. C. VI,	24	1853	
47	Jewett, Chas. C.	Construction of Catalogues of Libraries,	Svo.*	108	1853	.50
48	Girard, Charles	Bibliotheca Americana Historico Naturalis,	Svo.*	68	1852	
49	Baird, S. F. and Girard C.	Catalogue of Serpents,	M. C. II,	188	1853	1.00
50	Stimpson, Wm.	Marine Invertebrata of Gr. Manan	S. C. VI,	68	1853	1.50
51	.....	Annual Report of Smithsonian Institution for 1851,	Svo.	104	1852	
52	Coffin, Jas. H.	Winds of the Northern Hemisphere,	S. C. VI,	200	1853	
53	Stanley, J. M.	Portraits of N. American Indians,	M. C. II,	76	1852	
54	Downes, John	Ocultations in 1853,	S. C. VI,	36	1853	

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
55	.....	Smithsonian Contributions to Knowledge,	S. C. v,	538	1853	
56	.....	Smithsonian Contributions to Knowledge,	S. C. VI,	476	1854	
57	.....	Annual Report of Smithsonian Institution for 1852,	8vo.	96	1853	
58	Leidy, Joseph	Ancient Fauna of Nebraska,	S. C. VI,	126	1853	
59	Chappelsmith, J.	Tornado in Indiana,	S. C. VII,	12	1855	.25
60	Torrey, John	Batis Maritima,	S. C. VI,	8	1853	
61	Torrey, John	Darlingtonia Californica,	S. C. VI,	8	1853	
62	Melsheimer, F.E.	Catalogue of Coleoptera,	8vo.*	190	1853	2.00
63	Bailey, J. W.	New Species of Microscopic Organisms,	S. C. VII,	16	1854	.50
64	.....	List of Foreign Correspondents of Smithsonian Institution,	M. C.	16	1856	
65	.....	Registry of Period. Phenomena,	folio,*	4	1854	
66	.....	Annular Eclipse, May 26, 1854	M. C.	14	1854	
67	.....	Annual Report of Smithsonian Institution for 1853,	8vo.	310	1854	
68	Mitchell, B. R. & Turner, W. W.	Vocabulary of Jargon of Oregon,	8vo.*	22	1853	
69	.....	List of American Correspondents of Smithsonian Institution,	8vo.*	16	1853	
70	Lapham, I. A.	Antiquities of Wisconsin,	S. C. VII,	108	1855	
71	Haven, S. F.	Archæology of the United States,	S. C. VIII,	172	1856	
72	Leidy, Joseph	Extinct Sloth Tribe of N. America,	S. C. VII,	70	1855	
73	.....	Publications of Societies in Smithsonian Library,	S. C. VII,	40	1855	.25
74	.....	Catalogue of Smithsonian Publications,	M. C. v,	52	1862	
75	.....	Annual Report of Smithsonian Institution for 1854,	8vo.	464	1855	
76	.....	Smithsonian Contributions to Knowledge,	S. C. VII,	252	1855	
77	.....	Annual Report of Smithsonian Institution for 1855,	8vo.	440	1856	
78	.....	Smithsonian Contributions to Knowledge,	S. C. VIII,	556	1856	

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
79	Runkle, John D.	Tables for Planetary Motion,	S. C. IX,	64	1856	1.00
80	Alvord, Benj.	Tangencies of Circles and Spheres,	S. C. VIII,	16	1856	1.00
81	Olmsted, D.	Secular Period of Aurora Borealis	S. C. VIII,	52	1856	
82	Jones, Joseph	Investigation on A. Vertebrata,	S. C. VIII,	150	1856	1.50
83	Meech, L. W.	Relative Intensity of Heat and Light of the Sun,	S. C. IX,	58	1856	1.25
84	Force, Peter	Auroral Phenomena in North Latitudes,	S. C. VIII,	122	1856	1.25
85	.....	Publications of Societies in Smith- sonian Library. Part II,	S. C. VIII,	38	1856	.25
86	Mayer, Brantz	Mexican History and Archæology	S. C. IX,	36	1856	
87	Coffin, Jas. H.	Psychrometrical Tables,	M. C. I,	20	1856	.25
88	Gibbs, W. and Genth, F. A.	Ammonia Cobalt Bases,	S. C. IX,	72	1856	1.00
89	Brewer, Th. M.	North American Oology. Part I,	S. C. XI,	140	1857	5.00
90	Hitchcock, E.	Illustrations of Surface Geology,	S. C. IX,	164	1857	4.00
91	.....	Annual Report of Smithsonian Institution for 1856,	Svo.	468	1857	
92	.....	Smithsonian Contributions to Knowledge,	S. C. IX,	482	1857	
93	.....	Meteorological Observations for 1855,	Svo.*	118	1857	
94	Runkle, John D.	Asteroid Supplement to New Tables for $b \frac{(\prime)}{s}$ ,	S. C. IX,	72	1857	1.00
95	Harvey, Wm. H.	Marine Algæ of North America. Part III,	S. C. X,	142	1858	6.00
96	Harvey, Wm. H.	Marine Algæ of North America 3 parts complete,	4to.	568	1858	20.00
97	Kane, E. K.	Magnetic Observations in the Arctic Seas,	S. C. X,	72	1859	1.00
98	Bowen, T. J.	Yoruba Grammar and Dictionary,	S. C. X,	232	1858	4.00
99	.....	Smithsonian Contributions to Knowledge,	S. C. X,	462	1858	12.00
100	Gillis, J. M.	Eclipse of the Sun, Sept. 7, 1858,	S. C. XI,	22	1859	.50
101	Hill Thos.	Map of Solar Eclipse, Mar. 15, '58,	Svo.*	8	1858	.15
102	Osten Sacken, B.	Catalogue of Diptera of North America,	M. C. III,	112	1858	

No.	AUTHOR.	TITLE.	PAGES.	DATE.	PRICE.
103	Caswell, A.	Meteorological Observations, Providence, R. I.,	S. C. xii,	188 1860	2.00
104	Kane, E. K.	Meteorological Observations in Arctic Seas,	S. C. xi,	120 1859	1.25
105	Baird, S. F.	Catalogue of North American Mammals,	4to.*	22 1857	.50
106	Baird, S. F.	Catalogue of North American Birds,	4to.*	42 1858	.50
107	.....	Annual Report of Smithsonian Institution for 1857,	8vo.	438 1858	
108	Baird, S. F.	Catalogue of N. American Birds,	M. C. ii,	24 1859	.25
109	.....	Annual Report of Smithsonian Institution for 1858,	8vo.	448 1859	
110	.....	Annual Report of Smithsonian Institution for 1859,	8vo.	450 1860	
111	.....	Smithsonian Contributions to Knowledge,	S. C. xi,	506 1859	12.00
112	.....	Smithsonian Contributions to Knowledge,	S. C. xii,	540 1860	12.00
113	Bache, A. D.	Magnetic and Meteorological Observations at Girard Coll. Pt. I,	S. C. xii,	22 1859	.25
114	Sonntag, A.	Terrestrial Magnetism in Mexico,	S. C. xi,	92 1859	1.25
115	.....	Report on Invention of Electro-Magnetic Telegraph,	M. C. ii,	40 1861	free
116	Rhees, Wm. J.	List of Public Libraries, &c.	8vo.*	84 1859	
117	.....	Catalogue of Publications, &c., in Smithsonian Library,	M. C. iii,	264 1859	2.00
118	Morris, John G.	Catalogue of Lepidoptera of North America,	M. C. iii,	76 1860	1.00
119	Whittlesey, Ch.	Fluctuations of Level in N. A. Lakes,	S. C. xii,	28 1860	1.00
120	Hildreth, S. P. and Wood, J.	Meteorological Observations at Marietta, O.,	S. C. xvi,	52 1867	1.00
121	Bache, A. D.	Magnetic and Meteorological Observations at Girard Coll. Pt. II,	S. C. xiii,	28 1862	.25
122	.....	Smithsonian Miscellaneous Collections,	M. C. i,	738 1862	
123	.....	Smithsonian Miscellaneous Collections,	M. C. ii,	715 1862	
124	.....	Smithsonian Miscellaneous Collections,	M. C. iii,	772 1862	

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
125	.....	Smithsonian Miscellaneous Col- lections,	M. C. IV,	760	1862	
126	Le Conte, John L.	Coleoptera of Kansas and New Mexico,	S. C. XI,	64	1859	1.25
127	Loomis, E.	Storms in Europe and America, Dec. 1836,	S. C. XI,	28	1860	1.25
128	Lea, Carpenter, &c.	Check List of Shells in N. America	M. C. II,	52	1860	.25
129	Kane, E. K.	Astronomical Observations in the Arctic Seas,	S. C. XII,	56	1860	1.00
130	Kane, E. K.	Tidal Observations in the Arctic Seas,	S. C. XIII,	90	1860	1.50
131	Smith, N. D.	Meteorological Observations in Arkansas from 1840 to 1859,	S. C. XII,	96	1860	1.25
132	Bache, A. D.	Magnetic and Meteorological Ob- servations at Girard Coll. Pt. III	S. C. XIII,	16	1862	.25
133	Morris, John G.	Synopsis of Lepidoptera of North America. Part I,	M. C. IV,	386	1862	2.00
134	Hagen, H.	Synopsis of Neuroptera of North America,	M. C. IV,	368	1861	
135	Mitchell, S. W.	Venom of the Rattlesnake,	S. C. XII,	156	1860	1.75
136	Le Conte, John L.	Classification of Coleoptera of North America,	M. C. III,	312	1862	1.50
137	.....	Circular to Officers of Hudson's Bay Co.,	M. C. VIII,	6	1860	
138	Morgan, L. H.	Circular as to Degrees of Rela- tionship,	M. C. II,	34	1860	
139	.....	Collecting Nests and Eggs of North American Birds,	M. C. II,	34	1861	free
140	Le Conte, John L.	List of Coleoptera of North Ame- rica. Part I,	M. C. VI,	82	1866	.75
141	Loew, H. and Osten Sacken	Monographs of Diptera. Part I,	M. C. VI,	246	1862	1.50
142	Binney, W. G.	Bibliography of North American Conchology. Part I,	M. C. V,	658	1863	3.00
143	Binney, W. G.	Land and Fresh-Water Shells of North America. Part II,	M. C. VII,	172	1865	1.25
144	Binney, W. G.	Land and Fresh-Water Shells of North America. Part III,	M. C. VII,	128	1865	1.00
145	Prime, Temple	Monograph of American Corbieu- ladæ,	M. C. VII,	92	1865	.75



No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
146	M'Clintock, Sir F. L.	Meteorological Observations in the Arctic Seas,	S. C. XIII,	164	1862	1.50
147	.....	Annual Report of Smithsonian Institution for 1860,	Svo.	448	1861	
148	.....	Directions for Meteorological Ob- servations,	M. C. I,	72	1860	
149	.....	Annual Report of Smithsonian Institution for 1861,	Svo.	464	1862	
150	.....	Annual Report of Smithsonian Institution for 1862,	Svo.	446	1863	
151	.....	Smithsonian Contributions to Knowledge,	S. C. XIII,	558	1863	12.00
152	Carpenter, P. P.	Lectures on Mollusca,	Svo.*	140	1861	
153	Guyot, A.	Tables, Meteorological and Phy- sical,	M. C. I,	638	1859	3.00
154	.....	List of Foreign Correspondents of Smithsonian Institution,	M. C. V,	56	1862	
155	Whittlesey, Ch.	Ancient Mining on Lake Superior	S. C. XIII,	34	1863	.50
156	Egleston, T.	Catalogue of Minerals,	M. C. VII,	56	1863	.50
157	.....	Results of Meteorological Obser- vations from 1854 to 1859,	4to.*	1270	1861	
158	.....	Smithsonian Miscellaneous Col- lections,	M. C. V,	774	1864	
159	Mitchell, S. W. & Morehouse, G. R.	Anatomy and Physiology of Re- spiration in Chelonia,	S. C. XIII,	50	1863	1.00
160	Gibbs, G.	Instructions for Ethnology and Philology,	M. C. VII,	56	1863	.25
161	Gibbs, G.	Dictionary of the Chinook Jargon	M. C. VII,	60	1863	.50
162	Bache, A. D.	Magnetic and Meteorological Obs. at Girard Coll. Pt. IV, V, & VI,	S. C. XIII,	78	1862	1.00
163	.....	Circular on History of Grass- hoppers,	M. C. II,	4	1860	
164	.....	Smithsonian Museum Miscellanea	M. C. VIII,	88	1862	.50
165	Allen, H.	Monograph of the Bats of North America,	M. C. VII,	110	1864	
166	Bache, A. D.	Magnetic Survey of Pennsylvania	S. C. XIII,	88	1863	1.00
167	Le Conte, Jno. L.	New Species of North America Coleoptera,	M. C. VI,	180	1866	1.00
168	.....	Circular Relative to Birds from Middle and South America,	M. C. VIII,	2	1863	free



No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
169	.....	Smithsonian Miscellaneous Col- lections,	M. C. VI,	888	1864	
170	.....	Comparative Vocabulary,	4to.*	20	1863	free
171	Loew, H.	Monograph of the Diptera of North America. Part II,	M. C. VI,	372	1864	2.50
172	Meek, F. B. and Hayden, F. V.	Palæontology of the Upper Mis- souri. Part I,	S. C. XIV,	158	1865	
173	Dean, John	Gray Substance of the Medulla Oblongata,	S. C. XVI,	80	1864	2.50
174	Binney, W. G.	Bibliography of North American Conchology. Part II,	M. C. IX,	302	1864	2.00
175	Bache, A. D.	Mag. and Met. Observ. at Girard Coll. Parts VII, VIII, & IX,	S. C. XIV,	72	1864	1.00
176	.....	Circular, Collecting North Ame- rican Shells,	M. C. II,	4	1860	free
177	Meek, F. B.	Check List of Invertebrate Fos- sils of North America,	M. C. VII,	42	1864	.25
178	.....	Circular to Entomologists,	M. C. VIII,	2	1860	
179	.....	Catalogue of Publications of So- cieties,	M. C. IX,	596	1866	
180	Draper, H.	Construction of a Silvered Glass Telescope,	S. C. XIV,	60	1864	
181	Baird, S. F.	Review of American Birds in Smithsonian Museum,	M. C. XII,	454	1866	2.00
182	.....	Results of Meteorological Obser- vations from 1854-1859. Vol. II,	4to.*	546	1864	2.50
183	Meek, F. B.	Check List of Invertebrate Fos- sils of North America,	M. C. VII,	34	1864	.25
184	.....	Smithsonian Contributions to Knowledge,	S. C. XIV,	490	1865	12.00
185	.....	List of Birds in Mexico, &c.,	8vo.*	8	1863	
186	Bache, A. D.	Mag. and Met. Observ. at Girard College. Parts X, XI, & XII,	S. C. XIV,	42	1865	.50
187	.....	Annual Report of Smithsonian Institution for 1863,	8vo.	420	1864	1.00
188	.....	Annual Report of Smithsonian Institution for 1864,	8vo.	450	1865	1.00
189	Scudder, S. H.	Catalogue of Orthoptera of North America,	M. C. VIII,	110	1868	1.00
190	.....	Queries Relative to Tornadoes,	M. C. X,	4	1865	free

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
191	.....	Smithsonian Miscellaneous Col- lections,	M. C. VII,	878	1865	
192	Leidy, Joseph	Cretaceous Reptiles of the U. S.,	S. C. XIV,	142	1865	
193	.....	Duplicate Shells from Expedition of Capt. Wilkes,	Svo.*	4	1865	
194	Binney, W. G & Bland, T	Land and Fresh-Water Shells of North America. Part I,	M. C. VIII,	328	1869	2.00
195	.....					
196	Hayes, I. I.	Physical Observations in the Arctic Seas,	S. C. XV,	286	1867	
197	Whittlesey, Ch.	Glacial Drift of Northwestern States,	S. C. XV,	38	1866	
198	Kane, E. K.	Physical Observations in the Arctic Seas. Complete,	4to.*	340	1860	
199	Newcomb, S.	Orbit of Neptune,	S. C. XV,	116	1866	2.00
200	Conrad, T. A.	Cheek List of the Invertebrate Fossils of North America,	M. C. VII,	46	1866	.25
201	Stimpson, Wm.	Hydrobiinæ and Allied Forms,	M. C. VII,	64	1865	.50
202	Pumpelly, R.	Geological Researches in China, Mongolia, &c.	S. C. XV,	173	1866	3.50
203	.....	List of Works published by Smithsonian Institution,	M. C. VII.	12	1866	
204	Cleaveland, P.	Meteorological Observations, Brunswick, Me., 1807-1859,	S. C. XVI,	60	1867	1.00
205	.....	Circular for Archæology and Eth- nology,	M. C. VIII,	2	1867	free
206	.....	Smithsonian Contributions to Knowledge,	S. C. XV,	620	1867	12.00
207	.....	Relative to Scientific Investiga- tions in Russian America,	M. C. VIII,	10	1867	
208	Pickering, Chas.	Gliddon Mummy Case in Smith- sonian Institution,	S. C. XVI,	6	1869	.50
209	.....	Annual Report of the Smithsonian Institution for 1865,	Svo.	496	1866	
210	.....	Arrangement of Families of Birds in Smithsonian Institution,	M. C. VIII,	8	1866	
211	.....	Smithsonian Contributions to Knowledge,	S. C. XVI,	498	1870	12.00

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
212	.....	Smithsonian Miscellaneous Col- lections,	M. C. VIII,	921	1869	5.00
213	.....	Smithsonian Miscellaneous Col- lections,	M. C. IX,	898	1869	5.00
214	.....	Annual Report of Smithsonian Institution for 1866,	Svo.	470	1867	
215	.....	Annual Report of Smithsonian Institution for 1867,	Svo.	506	1868	
216	.....	Photograph Portraits of North American Indians,	Svo.*	42	1867	.25
217	Hoek, M.	Meteoritic Shower, 1867, Nov. 13,	Svo.*	4	1867	
218	Morgan, L. H.	Systems of Consanguinity and Af- finity,	S. C. XVII,	616	1869	12.00
219	Osten Sacken, R.	Monograph of Diptera of North America. Part IV,	M. C. VIII,	358	1869	2.00
220	Swan, Jas. G.	Indians of Cape Flattery,	S. C. XVI,	118	1869	2.00
221	Coffin, James H.	Orbit, &c., of Meteoric Fire Ball, July 20, 1860,	S. C. XVI,	56	1869	1.00
222	Schott, Chas. A.	Tables of Rain and Snow in United States,	S. C. XVIII,	175	1872	3.00
223	Gould, B. A.	On the Transatlantic Longitude,	S. C. XVI,	110	1869	1.00
224	.....	Annual Report of Smithsonian Institution for 1868,	Svo.*	473	1869	
225	.....	List of Foreign Correspondents of Smithsonian Institution,	Svo.*	53	1869	
226	.....	List of Publications of Smithson- ian Institution,	Svo.	34	1869	
227	Gill, Theod.	Families of Mollusks,	M. C. X,	49	1871	.25
228	.....	Annual Report of Smithsonian Institution for 1869,	Svo.	430	1871	1.00
229	.....	Smithsonian Contributions to Knowledge,	S. C. XVII,	616	1871	
230	Gill, Theod.	List of Families of Mammals,	M. C. XI,	104	1872	.25
231						
232	Stockwell, J. N.	Secular Variations of Orbits of Planets,	S. C. XVIII,	220	1872	2.00
233	Ferrel, Wm.	Converging Series, Ratio of Dia- meter, and Circum. of Circles,	S. C. XVIII,	6	1871	.50
234	Baird, S. F.	Circular Relative to Food Fishes,	M. C. X,	14	1871	free

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
235	.....	Circular Relative to Thunderstorms,	M. C. x,	2	1871	free
236	.....	Circular Relative to Altitudes,	M. C. x,	2	1871	free
237	.....	Circular Relative to Lightning-rods,	M. C. x,	4	1871	free
238	Rhees, Wm. J.	List of American Libraries, and Public Institutions,	M. C. x,	256	1872	1.00
239	Harkness, Wm.	Magnetic Observations on the Monadnock,	S. C. xviii.	226	1872	2.00
240	Barnard, J. G.	Problems of Rotary Motion,	S. C. xix,	74	1872	2.00
241	Wood, H. C.	Fresh-Water Algæ of N. America,	S. C. xix,	272	1872	7.50
242	Clark, H. J.	Lucernariæ and their Allies,	S. C.	...	...	...
243	.....	List of Foreign Correspondents of Smithsonian Institution,	M. C. x,	63	1872	.25
244	.....	Annual Report of Smithsonian Institution for 1870,	Svo.	494	1871	1.00
245	.....	Check List of Smithsonian Publications to July, 1872,	M. C. x,	21	1872	free
246	.....	Smithsonian Contributions to Knowledge,	S. C. xviii,	643	1872	12.00
247	Gill, Theod.	List of Families of Fishes,	M. C. xi,	96	1872	.25
248	Hilgard, E. W.	Geology of Lower Louisiana,	S. C. xix,	38	1872	2.00
249	.....	Annual Report of Smithsonian Institution for 1871,	Svo.	473	1872	
250	.....	Smithsonian Miscellaneous Collections,	M. C. x,	913	1873	5.00
251	Carpenter, P. P.	Monograph of Chitonidæ,		...	...	...
252	Carpenter, P. P.	American Mollusca,	M. C. x,	446	1873	1.00
253	Tryon, G. W.	Monograph of Strepomatidæ,	M. C. xii,	490	1873	2.00
254	De Saussure, H.	Monograph of Hymenoptera,	M. C.	430	1875	2.00
255	Clarke, F. W.	Specific Gravity Tables,	M. C. xii,	272	1873	1.00
256	Loew, H.	Monograph Diptera. Part III,	M. C. xi,	381	1873	2.00
257	.....			...	...	...
258	Watson, S.	Botanical Index,	M. C.	...	...	...
259	Jones, Jos.	Antiquities of Tennessee,	S. C.	181	1876	3.00
260				...	...	...

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
261	Packard, A. S.	Directions for Collecting and Preserving Insects,	M. C. XI,	60	1873	free
262	Newcomb, S.	Orbit of Uranus,	S. C. XIX,	296	1873	3.00
263	.....	Astronomical Telegram Circular,	M. C. XII,	4	1873	...
264	LeConte, J. L.	New Species Coleoptera. Part II,	M. C. XI,	74	1873	.50
265	LeConte, J. L.	Classification Coleoptera. Part II,	M. C. XI,	72	1873	.50
266	Woodward, J. J.	Toner Lecture I. Cancerous Tumors,	M. C.	44	1873	.25
267	Swan, J. G.	Haidah Indians, .	S. C. XXI,	29	1874	1.00
268	Coffin, J. H.	Winds of the Globe,	S. C. XX,	781	1876	12.00
269						
270						
271	.....	Annual Report of Smithsonian Institution for 1872,	8vo.	456	1874	...
272	.....	Smithsonian Contributions,	S. C. XIX,	660	1874	12.00
273	.....	Miscellaneous Collections,	M. C. XI,	789	1874	5.00
274	.....	Miscellaneous Collections,	M. C. XII,	767	1874	5.00
275	.....	Annual Report of Smithsonian Institution for 1873,	8vo.	452	1874	1.00
276	Clarke, F. W.	Specific Heat Tables. Part II,	M. C.	58	1876	.50
277	Schott, C. A.	Temperature Tables,	S. C. XXI,	369	1876	3.00
278	.....	Check List of Smithsonian Publications,	M. C.	24	1874	...
279	DaCosta, J. M.	Toner Lecture III. The Heart,	M. C.	32	1874	.25
280	Alexander, S.	Harmonies of Solar System,	S. C. XXI,	104	1875	1.00
281	Newcomb, S.	Planetary Motion,	S. C.	40	1874	.75
282	Wood, H. C.	Toner Lecture IV. Study of Fever,	M. C.	50	1875	.25
283	Gill, Theod.	Catalogue of Fishes,	M. C.	56	1875	.25
284	.....	Smithsonian Contributions,	S. C. XX,	794	1876	12.00
285	.....	Smithsonian Contributions,	S. C. XXI,	543	1876	12.00
286	.....	Annual Report of Smithsonian Institution for 1874,	8vo.	416	1875	1.00
287	Rau, Charles,	Archæological Collection, Nat Museum,	S. C.	118	1876	2.00

No.	AUTHOR.	TITLE.		PAGES.	DATE.	PRICE.
288	Clarke, F. W.	Specific Gravity Tables. Supp. I,	M. C.	62	1876	.50
289	Clarke, F. W.	Tables, Expansion by Heat	M. C.	58	1876	.50
290	.....	List of Smithsonian Publications,	Svo.	12	1876	...
291	Brown-Séguard,	Toner Lecture II. The Brain,	M. C.	26	1877	.25
292	Cope, E. D.	Batrachia. Bulletin National Museum, No. 1,	M. C.	106	1875	.50
293	Kidder, J. L., Coues, E.	Birds Kerguelen Island. Bulletin National Museum, No. 2,	M. C.	61	1875	.50
294	Kidder, J. L., and others,	Nat. Hist. Kerguelen Island. Bulletin Nat. Museum, No. 3,	M. C.	122	1876	.50
295	Lawrence, G. N.	Birds of Mexico. Bulletin Nat. Museum, No. 4,	M. C.	56	1876	.50
296	Goode, G. B.	Fishes of Bermuda. Bull. Nat. Museum, No. 5,	M. C.	82	1876	.50
297	Goode, G. B.	Classification of Animal Re- sources, etc. Bulletin Nat. Museum, No. 6,	M. C.	139	1876	.50
298	.....	Annual Report of Smithsonian Institution for 1875,	.....	422	1876	1.00
299	.....	Annual Report of Smithsonian Institution for 1876,	Svo.	...	...	...
300	Keen, W. W.	Toner Lecture V. Continued Fever,	M. C.	72	1877	.25
301	.....	Check List of Smithsonian Publi- cations to July, 1877,	M. C.	...	1877	free
302	Adams,	Toner Lecture VI. Subcutaneous Surgery,	M. C.	20	1877	.25

## 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 Algæ of North America. Part I.—Melanospermeæ. (32.)  
GRAY, Plantæ Wrightianæ Texano-Neo-Mexicanæ. Part I. (22.)  
DAVIS, Law of Deposit of the Flood Tide. (33.)



- 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.)  
 WYMAN, Anatomy of the Nervous System of *Rana pipiens*. (45.)  
 HARVEY, Marine Algæ of North America. Part II.—*Rhodospermeæ*. (43.)  
 GRAY, *Plantæ Wrightianæ*. Part II. (42.)

SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE. Vol. VI.  
 1854. 4to. 476 pages, 53 plates, and 8 wood-cuts. (56.)

CONTENTS.

- TORREY, *Plantæ 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, Archæology of the United States. (71.)  
 OLNSTED, Recent Secular Period of Aurora Borealis. (81.)



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 Archæology, 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.—Chlorospermeæ.	(95.)
KANE, Magnetical 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.

BREWSTER, North American Oölogy. 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.)

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

## CONTENTS.

KANE, Tidal Observations, Arctic Seas.	(130.)
MCCLEINTOCK, 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, Palæontology 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.)
CLEVELAND, Meteorological Observations, Brunswick, Maine, 53 years.	(204.)
HILDRETH, Meteorological Observations, Marietta, O.	(120.)
PICKERING, Gliddon Mummy Case.	(208.)
COFFIN, Orbit and Phenomena of a Meteoric Fire Ball.	(221.)
GOULD, Transatlantic Longitude.	(223.)
SWAN, Indians of Cape Flattery.	(220.)

## 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. (232.)

HARKNESS, Observations on Terrestrial Magnetism. (239.)

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. (268.)

## 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. (267.)

SCHOTT, Tables, Atmospheric Temperature in United States. (277.)

## MISCELLANEOUS COLLECTIONS.

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. I.  
1862. 8vo. 738 pages. (122.)

## 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. (123.)

## 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, Catalogue of North American Birds.	(108.)
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. (124)

## 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. (125.)

## CONTENTS.

HAGEN, Synopsis of North American Neuroptera.	(134.)
MORRIS, Synopsis of North America Lepidoptera.	(133.)

## 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 Hydrobiinæ.	(201.)
PRIME, Monograph of American Corbiculadæ.	(145.)
CONRAD, Check-list of Fossils: Eocene and Oligocene.	(200.)
MEEK, Check-list of Fossils: Miocene.	(183.)
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 Archæology 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. (164.)

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. IX.  
 1869. 8vo. 898 pages. (213.)

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. (250.)

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. (236.)  
 HENRY, Directions for constructing Lightning Rods. (237.)  
 HENRY, Queries relative to Tornados. (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. (273.)

CONTENTS.

- GILL, Arrangement of the Families of Mammals. (230.)  
 GILL, Arrangement of the Families of Fishes. (247.)  
 LÖEW, Monograph of the Diptera of North America. Part III. (256.)  
 PACKARD, Directions for Collecting and Preserving Insects. (261.)  
 LECONTE, New Species of North American Coleoptera. Part II. (264.)  
 LECONTE, Classification of the Coleoptera of North America. Part II. (265.)

SMITHSONIAN MISCELLANEOUS COLLECTIONS. Vol. XII.  
 1874. 8vo. 767 pages, 81 wood-cuts. (274.)

CONTENTS.

- BAIRD, Review of American Birds. Part I. (181.)  
 CLARKE, The Constants of Nature. Part I.—Specific Gravities. (255.)  
 HENRY, Telegraphic Announcements of Astronomical Discoveries. (263.)

## ANNUAL REPORTS.

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





# SYSTEMATIC INDEX

TO

## SMITHSONIAN CONTRIBUTIONS TO KNOWLEDGE AND MISCELLANEOUS COLLECTIONS.

### ANATOMY, PHYSIOLOGY, MEDICINE, AND SURGERY.

ADAMS, subcutaneous surgery . . . . .	302
BROWN-SÉQUARD, 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
KANE, astronomical observations arctic seas . . . . .	129
“ tidal observations arctic seas . . . . .	130

NEWCOMB, integrals of planetary motion . . . . .	281
“ orbit of Neptune . . . . .	199
“ “ Uranus . . . . .	2 2
RUNKLE, planetary tables . . . . .	79
“ “ supplement . . . . .	94
STOCKWELL, 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
RUEES, public libraries . . . . .	116, 238

## BOTANY.

GRAY, Plantæ Wrightianæ, I . . . . .	22
“ “ “ “ II . . . . .	42
HARVEY, North American marine algæ, I . . . . .	32
“ “ “ “ II . . . . .	43
“ “ “ “ III . . . . .	95
“ “ “ “ complete . . . . .	96
Register periodical phenomena . . . . .	65, 148
TORREY, Batis maritima . . . . .	60
“ Darlingtonia Californica . . . . .	61
“ Plantæ Frémontianæ . . . . .	46
WATSON, botanical index . . . . .	258
WOOD, fresh-water algæ . . . . .	241

## CHEMISTRY, PHYSICS, AND TECHNOLOGY.

BOOTH and MORFIT, chemical arts . . . . .	27
CLARKE, expansion tables . . . . .	289
“ specific gravity tables . . . . .	255
“ “ “ “ 1st supplement . . . . .	288
“ “ heat tables . . . . .	276
GIBBS and GENTH, ammonia-cobalt bases . . . . .	88
HARE, explosiveness of nitre . . . . .	17

ELECTRICITY. See Magnetism.

## ETHNOLOGY AND PHILOLOGY.

BOWEN, Yoruba grammar and dictionary . . . . .	98
Circular archæology . . . . .	205
GIBBS, Chinook jargon . . . . .	161
“ comparative vocabulary . . . . .	170
“ ethnological instructions . . . . .	160
HAVEN, American archæology . . . . .	71
JONES, antiquities of Tennessee . . . . .	259
LAPHAM, antiquities of Wisconsin . . . . .	70
LIEBER, vocal sounds Laura Bridgeman . . . . .	12
MAYER, Mexican archæology . . . . .	86
MITCHELL, vocabulary of jargon . . . . .	68
MORGAN, relationship circular . . . . .	138
“ systems of consanguinity . . . . .	218
Photographic portraits of Indians . . . . .	216
PICKERING, Gliddon mummy case . . . . .	208
RAU, archæological 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 . . . . .	267
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, 261
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
KARÉ, observations arctic seas . . . . .	104

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
MCCLEINTOCK, arctic observations . . . . .	146
MEECH, intensity sun's heat . . . . .	83
Meteorological observations, 1855 . . . . .	93
"    "    "    results, 1854-59, vol. 1. . . . .	157
"    "    "    "    vol. 2. . . . .	182

METEORS, November . . . . .	217
OLMSTED, aurora . . . . .	81
Periodical phenomena, register . . . . .	65, 148
SCHOTT, tables of rain and snow in the United States . . . . .	222
“ tables of temperature . . . . .	277
SMITH, observations, Washington, Arkansas . . . . .	131

## MICROSCOPY.

BAILEY, microscopic observations, southern States . . . . .	23
“ new microscopic organisms . . . . .	63
“ soundings, coast survey . . . . .	20
DEAN, medulla oblongata . . . . .	173
LEIDY, flora and fauna within living animals . . . . .	44
WOODWARD, cancerous tumors . . . . .	266

## MINERALOGY.

EGLESTON, catalogue of minerals . . . . .	156
---	-----

## MISCELLANEOUS.

Address, corner-stone . . . . .	D
Circular, altitudes . . . . .	236
“ lightning rods . . . . .	237
Classification of animal resources . . . . .	297
Correspondence Squier and Davis . . . . .	K
Digest of act of Congress relative to Smithsonian Institution . . . . .	C
Exposition, Smithson's bequest . . . . .	E
Hudson's bay circular . . . . .	137
List domestic institutions . . . . .	69, 238
“ foreign “ . . . . .	64, 154, 225, 243
Proceedings, regents, 1846 . . . . .	A
Programme of organization . . . . .	J
Register periodical phenomena . . . . .	65, 148
Report of committee on organization . . . . .	B, L
Russian America circular . . . . .	207

## PALÆONTOLOGY.

CONRAD, eocene fossils . . . . .	200
GIBBES, mosasaurus . . . . .	14
LEIDY, ancient fauna, Nebraska . . . . .	58
“ cretaceous reptiles . . . . .	192
“ extinct sloths . . . . .	72
“ fossil ox . . . . .	41
MEEK, cretaceous and jurassic fossils . . . . .	177
“ miocene fossils . . . . .	183
“ and HAYDEN, palæontology, Nebraska . . . . .	172

## PHYSICS.

BARNARD, problems of rotary motion . . . . .	240
DRAPER, telescope in photography . . . . .	180
GOULD, transatlantic longitude . . . . .	223
GUYOT, physical and meteorological tables . . . . .	31, 153

HENRY, electro-magnetic telegraph . . . . .	115
MEECH, heat and light of the sun . . . . .	83
SECCI, electrical rheometry . . . . .	36

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 . . . . .	89
Circular, birds of South America . . . . .	168
Desiderata of birds of Mexico, Central America, etc. . . . .	185
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, cottoids . . . . .	30
GOODE, fishes of Bermuda . . . . .	296
JORDAN, notes on Rafinesque's memoirs, North American fishes . . . . .	305

*Insects.*

AGASSIZ, classification of insects . . . . .	16
<i>Coloptera</i> , LE CONTE, classification, part I . . . . .	136
“ “ “ part II . . . . .	265
“ “ Kansas . . . . .	126
“ “ list . . . . .	140
“ “ new species, part I. . . . .	167
“ “ “ part II . . . . .	264
“ MELSHEIMER, catalogue . . . . .	62
<i>Diptera</i> , LOEW, monograph, part I . . . . .	141
“ “ “ part II . . . . .	171
“ “ “ part III . . . . .	256
“ OSTEN SACKEN, monograph, part IV . . . . .	219
“ “ catalogue . . . . .	102
<i>Hymenoptera</i> , DE SAUSSURE, monograph . . . . .	254
<i>Lepidoptera</i> , MORRIS, catalogue . . . . .	118
“ “ “ synopsis . . . . .	133
<i>Neuroptera</i> , HAGEN, synopsis . . . . .	134
<i>Orthoptera</i> , SCUDDER, catalogue . . . . .	189
PACKARD, directions for collecting insects . . . . .	261

*Mammals.*

ALLEN, monograph North American bats . . . . .	165
BAIRD, catalogue mammals . . . . .	105
GILL, list of families of mammals . . . . .	230

*Radiates.*

CLARK, lucernariæ . . . . .	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
“ chitonidæ . . . . .	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, corbiculadæ . . . . .	145
STIMPSON, hydrobiinæ . . . . .	201
TRYON, monograph of strepomatidæ . . . . .	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	Arctic observations, Kane, McClintock, Hayes	97, 104, 129, 130, 146, 196, 198
Acts of Congress	C. N. O. 67	Arkansas, meteorology, Smith	131
Adams, subcutaneous surgery	302	Arrangement of birds, Baird	210
Address, corner-stone, Dallas	D	Asteroid tables, supplement, Runkle	94
Agassiz, classification insects	16	Astronomical observations, Kane	129
Alexander, harmonies of solar system	280	Astronomical tables, Runkle	79, 94
Algæ, fresh-water, Wood	241	Astronomical telegram circular	263
Algæ, marine, Harvey	32, 43, 95, 96	Aurora borealis, Olmsted	81
Allen, monograph bats	165	Auroras, record of, Force	84
Altitudes, circular	236	Bache, magnetic discussion	113, 121, 132, 162, 175, 186
Alvord, tangencies	80	Bache, magnetic survey, Pennsylvania	166
Ammonia-cobalt bases, Gibbs and Genth	88	Bailey, microscopic observations	20, 23, 63
Anatomy of <i>Rana pipiens</i> , Wyman	45	Baird, arrangement of birds	210
Ancient fauna, Nebraska, Leidy	58	Baird, catalogue birds	106, 108
Ancient mining, Lake Superior, Whittlesey	155	Baird, catalogue mammals	105
Ancient monuments, Mississippi valley, Squier and Davis	1, 2	Baird, food fishes	234
Ancient works, Ohio, Whittlesey	37	Baird, review of birds, part 1	181
Animal resources, classification, Goode	297	Baird and Girard, catalogue of serpents	49
Antiquities of Tennessee, Jones	259	Barnard, rotary motion	240
Antiquities Wisconsin, Lapham	70	Batis maritima, Torrey	60
American correspondents	69, 238	Batrachia, North American, Cope	292
Archæology, circular	205	Bats, monograph, Allen	165
Archæology, Mexican, Mayer	86	Bermuda, fishes of, Goode	296
Archæology of United States, Haven	71	Bibliography, conchology, Binney	142, 174
Archæology, Rau	287		
Architecture, Owen	P		

Bibliography, natural history, Girard	48	Bulletin National Museum, No. 9, Jordan	305
Binney, bibliography, conchology	142, 174	California, nat. history, Streets	303
Binney, check list, shells	128	Cancerous tumours, Woodward	266
Binney, land and fresh-water shells	143, 144, 194	Cape Flattery, Indians of, Swan	220
Birds, Baird, arrangement of	210	Carpenter, check list, shells	128
Birds, Baird, catalogue	106, 108	Carpenter, mollusca	152, 251, 252
Birds, Baird, review, part 1	181	Caswell, meteorological observations, Providence	103
Birds, circular for collecting	168	Catalogue of birds, Baird	106, 108
Birds, Kerguelen Island, Kidder	293	Catalogue of coleoptera, Melsheimer	62
Birds' nests and eggs, collecting	139	Catalogue of diptera, Osten-Sacken	102
Birds of Mexico, Central America, and West Indies	185	Catalogue of fishes, Gill	283
Birds of Mexico, Lawrence	295	Catalogue of lepidoptera, Morris	118
Birds of South America, circular	168	Catalogue of mammals, Baird	105
Bland and Binney, land and fresh-water shells	194	Catalogue of minerals, Egleston	156
Booth and Morfit, chemical arts	27	Catalogue of orthoptera, Scudder	189
Botanical index, Watson	258	Catalogue of serpents, Baird and Girard	49
Bowen, Yoruba grammar and dictionary	98	Catalogue, publications in library	117, 179
Brachiopoda, index of, Dall	304	Catalogue, publications of Smithsonian Institution	74, 203, 226, 245, 278
Brains, have we two, Brown-Séquard	291	Catalogue system, Jewett	47
Brewer, N. A., oology, part 1	89	Central America, circular on birds	168
Bridgeman, Laura, vocal sounds of, Lieber	12	Central America, list of birds of	185
Brown-Séquard, have we two brains	291	Chappelsmith, tornado	59
Brunswick, Maine, meteorological observations, Cleaveland	204	Check list, fossils, Conrad and Meek	177, 183, 200
Bulletin National Museum, No. 1, Cope	292	Check list of periodicals	Q
Bulletin National Museum, No. 2, Kidder and Coues	293	Check list, shells, Lea, Carpenter, etc.	128
Bulletin National Museum, No. 3, Kidder and others	294	Check list, Smithsonian publications	74, 203, 226, 245, 278, 290, 301
Bulletin National Museum, No. 4, Lawrence	295	Chelonia, Mitchell and Morehouse	159
Bulletin National Museum, No. 5, Goode	296	Chemical arts, Booth and Morfit	27
Bulletin National Museum, No. 6, Goode	297	Chemical investigations, Jones	82
Bulletin National Museum, No. 7, Streets	303	China, geology, Pumpelly	202
Bulletin National Museum, No. 8, Dall	304	Chinook jargon, Gibbs	161
		Chitonidæ, Carpenter	251
		Circular, altitudes	236
		Circular on archæology	205

Circular, astronomical telegrams	263	Consanguinity, systems of, Mor- gan	138, 218
Circular on birds	168	Contributions to knowledge	2, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151, 184, 206, 211, 229, 246, 272, 284, 285
Circular to entomologists	178	Converging series, Ferrel	233
Circular, food fishes	234	Cope, North America batrachia and reptilia	292
Circular, grasshoppers	163	Corbiénlādæ, Prime	145
Circular, Hudson's Bay Co.	137	Correspondents, domestic	69, 238
Circular, lightning rods	237	Correspondents, foreign	64, 154, 225, 243
Circular, observations in Russian America	207	Cottoids, Girard	30
Circular on relationship, Morgan	138	Coues, birds of Kerguelen Island	293
Circular on shells	176	Cones, Nat. Hist. of Kerguelen Island	294
Circular, thunder storms	235	Cretaceous fossils, Meek	177
Clarke, expansion by heat tables	289	Cretaceous reptiles, Leidy	192
Clark, lucernariæ	242	DaCosta, the heart	279
Clarke, specific gravity tables	255	Dakota grammar and dictionary, Riggs	40
Clarke, specific gravity tables, 1st supp.	288	Dall, index of brachiopoda	304
Clarke, specific heat tables	276	Dallas, address, corner-stone	D
Classification of animal resources, Goode	297	Darlingtonia Californica, Torrey	61
Classification of coleoptera, Le Conte	136, 265	Davis, flood-tide	33
Classification of insects, Agassiz	16	Davis, Squier and, ancient monu- ments	1, 2
Cleveland, meteorological obser- vations, Brunswick, Maine	204	Dean, medulla oblongata	173
Coffin, meteoric fire-ball	221	De Saussure, hymenoptera	254
Coffin, psychrometrical tables	87	Dictionary, Chinook jargon, Gibbs	161
Coffin, winds of the globe	268	Dictionary, Dakota, Riggs	40
Coffin, winds, northern hemi- sphere	52, 268	Dictionary, Yoruba, Bowen	98
Coleoptera, classification, Le Conte	136, 265	Digest of act of Congress	C
Coleoptera, Kansas, Le Conte	126	Diptera, monograph, Loew	141, 171, 256
Coleoptera, list, Le Conte	140	Diptera, catalogue, Osten Sacken	102
Coleoptera, new species, Le Conte	167, 264	Diptera, monograph, Osten Sacken	141, 171, 219, 256
Coleoptera, catalogue, Melsheimer	62	Directions, collecting specimens	34, 139, 261
Collecting specimens, Baird, Packard, etc.	34, 139, 261	Directions, meteorological obser- vations	19, 148
Comparative vocabulary	170	Downes, occultations	8, 9, 10, 11, 29, 54
Conchology, bibliography, Bin- ney	142, 174		
Congress, acts of C. N. O.	67		
Conrad, check list, fossils, eocene	200		

Draper, telescope in photography	180	Fossil ox, Leidy	41
Drift, Whittlesey	197	Fossils, check list, Conrad	200
Eclipse, Gilliss, Hill	66, 100, 101	Fossils, check list, Meek	177, 183
Eggs, Brewer	89	Frémont, plants	46
Eggs, circular	139	Genth and Gibbs, ammonia-cobalt bases	88
Eggs, instructions for collecting	139	Geology, China and Japan, Pam-pelly	202
Egleston, catalogue minerals	156	Geology, Hitchcock	90
Electrical rheometry, Secchi	36	Geology of Louisiana, Hilgard	248
Ellet, physical geography Mississippi valley	13	Gibbes, mosasaurus	14
Entomologists, directions to	178, 261	Gibbs and Genth, ammonia-cobalt bases	88
Eocene fossils, Conrad	200	Gibbs, Chinook jargon	161
Ephemeris, Neptune, Walker	4, 5, 6, 7, 24	Gibbs, comparative vocabulary	170
Ethnology, circular	205	Gibbs, ethnological instructions	160
Ethnology, instructions relative to, Gibbs	160	Gill, catalogue of fishes	283
Exchanges, list of, part 1	73	Gill, families of fishes	247
Exchanges, list of, part 2	85	Gill, families of mammals	230
Exchanges, list of, to 1858	117	Gill, families of mollusks	227
Expansion by heat, tables, Clarke	289	Gilliss, solar eclipse, Peru	100
Exploring expedition, duplicate shells	193	Girard and Baird, catalogue, serpents	49
Explosiveness of nitre, Hare	17	Girard, bibliography nat. hist.	48
Fanning Islands, nat. history, Streets	303	Girard, cottoids	30
Fauna and flora, Leidy	44	Girard College, observations, Bache 113, 121, 132, 162, 175, 186	186
Ferrel, converging series	233	Glacial drift, Whittlesey	197
Fever, lecture on, Keen	300	Giddon, mummy-case, Pickering	208
Fever, lecture on, Wood	282	Goode, classification of animal resources	297
Fire-ball, Coffin	221	Goode, fishes of Bermuda	293
Fishes of Bermuda, Goode	296	Gould, discovery of neptune	18
Fishes, catalogue of, Gill	283	Gould, transatlantic longitude	223
Fishes, circular, Baird	234	Grammar, Dakota, Riggs	40
Fishes, cottoid, Girard	30	Grammar, Yoruba, Bowen	98
Fishes, families of, Gill	247	Grand Manan, invertebrata, Stimpson	50
Fishes, notes on, Jordan	305	Grasshopper, circular	163
Flood-tide, Davis	33	Gray, <i>Plante wrightianæ</i>	22, 42
Flora and fauna, Leidy	44	Guyot, meteorological and physical tables	31, 153
Fluctuations of level of lakes, Whittlesey	119	Guyot, meteorological directions	19, 148
Foree, record of auroras	84	Hagen, synopsis neuroptera	134
Foreign correspondents, list of	64, 154, 225, 243	Haidah Indians, Swan	267

Haldeman, coleoptera	62	Invertebrates, Grand Manan,	
Hare, explosiveness of nitre	17	Stimpson	50
Harkness, magnetic observations on iron-clad	239	Japan, geology, Pumpelly	202
Harmonies of solar system, Alexander	280	Jargon, Chinook, Gibbs	161
Harvey, algæ	32, 43, 95, 96	Jargon, Oregon, Mitchell	68
Haven, archæology of U. S.	71	Jewett, catalogue system	47
Hawaiian Islands, nat. history, Streets	303	Jewett, public libraries	25
Hayden and Meek, palæontology upper Missouri	172	Jones, antiquities of Tennessee	259
Hayes, arctic observations	196	Jones, chemical and physiolo- gical investigations	82
Heart, lecture on, DaCosta	279	Jordan, North American ich- thyology	305
Heat, tables of expansion, Clarke	289	Journal of regents	A
Heights, circular	236	Kane, astronomical observations, arctic seas	129
Henry, exposition of Smithsonian's bequest	E	Kane, magnetic observations, arctic seas	97
Henry, electro-magnetic tele- graph	115	Kane, meteorological observa- tions, arctic seas	104
Henry, first report of	F	Kane, physical and meteorological observations (complete)	198
Henry, meteoric shower	217	Kane, tidal observations	130
Hildreth, meteorological observa- tions, Marietta	120	Kansas, coleoptera, Le Conte	126
Hilgard, geology of Louisiana	248	Keen, continued fevers	300
Hill, solar eclipse	101	Kerguelen Island, birds of, Kid- der	293
Hitchcock, surface geology	90	Kerguelen Island, natural his- tory of, Kidder and Cones	294
Hoek, meteoric shower	217	Kidder and Cones, birds, Ker- guelen Island	293
Hudson's bay, circular	137	Kidder and others, nat. hist., Kerguelen Island	294
Hydrobiinæ, Stimpson	201	Lakes, fluctuations of level of, Whittlesey	119
Hymenoptera, De Saussure	254	Lake Superior, ancient mining, Whittlesey	155
Ichthyology, Jordan, notes	305	Lapham, antiquities of Wiscon- sin	70
Index, botanical, Watson	258	Lawrence, birds of Mexico	295
Index, brachiopoda, Dall	304	Lea, check list shells	128
Indian photographs	216	Le Conte, classification, coleop- tera	136, 265
Indian portrait gallery, Stanley	53	Le Conte, coleoptera, Kansas	126
Indiana tornado, Chappelsmith	59	Le Conte, list coleoptera	140
Indians, Haidah, Swan	267	Le Conte, new species coleoptera	167, 264
Indians, Makah, Swan	220		
Insects, classification, Agassiz	16		
Insects, directions for collecting, Packard	261		
Institutions, list of domestic	69, 238		
Institutions, list of foreign	64, 154, 225, 243		



Lectures. <i>See</i> Toner lectures, <i>see</i> Carpenter.		Magnetism, Locke	35
Leidy, ancient fauna, Nebraska	58	Makah Indians, Swan	220
Leidy, cretaceous reptiles	192	Mammals, catalogue, Baird	105
Leidy, extinct sloths	72	Mammals, families, Gill	230
Leidy, fauna and flora	44	Map of solar eclipse, Hill	101
Leidy, fossil ox	41	Marietta, meteorological obser- vations, Hildreth	120
Lepidoptera, catalogue, Morris	118	Marine algæ, Harvey	32, 43, 95, 96
Lepidoptera, synopsis, Morris	133	Marine invertebrata, Grand Manan, Stimpson	50
Level of lakes, Whittlesey	119	Mayer, Mexican history and archæology	86
Libraries, account of, Jewett	25	McClintock, meteorological ob- servations, Arctic seas	146
Libraries, catalogue system, Jewett	47	Meech, intensity sun's heat	83
Libraries, list of, Rhees	116, 238	Medulla oblongata, Dean	173
Library of Congress, catalogue of publications deposited in	179	Meek, check list fossils, creta- ceous	177
Library of Smithsonian Institu- tion, catalogue of	73, 85, 117, 179	Meek, check list fossils, miocene	183
Library, publications of learned societies in	73, 85, 117, 179	Meek and Hayden, palæontology, upper Missouri	172
Lieber, vocal sounds of Laura Bridgeman	12	Melsheimer, catalogue, coleoptera	62
Lightning-rods, circular	237	Meteoric fire-ball, Coffin	221
List of American correspondents	69	Meteoric shower, Henry	217
List of birds in Mexico	185	Meteorological directions	19, 148
List of coleoptera, Le Conte	140	Meteorological discussion, Bache	113, 121, 132, 162, 175, 186
List of foreign correspondents	64, 154, 225, 243	Meteorological observations, 1854-59	157, 182
List of shells of exp. exped.	193	Meteorological observations, 1855	93
List of Smithsonian publications	74, 203, 226, 245, 278, 290, 301	Meteorological observations, Caswell	103
Locke, terrestrial magnetism	35	Meteorological observations, Cleaveland	204
Loew, monograph diptera	141, 171, 219, 256	Meteorological observations, Hayes	196
Longitude, transatlantic, Gould	223	Meteorological observations, Hildreth	120
Loomis, storms	127	Meteorological observations, Kane	104
Louisiana, geology of, Hilgard	248	Meteorological observations, McClintock	146
Lucernariæ, Clark	242	Meteorological observations, Smith	131
Magnetic discussion, Bache	113, 121, 132, 162, 175, 186	Meteorological tables, Guyot	31, 153
Magnetic observations, Arctic seas, Kane, Hayes	97, 196	Meteors, November	217
Magnetic observations, Harkness	239	Mexico, birds of, Lawrence	295
Magnetic observations, Mexico, Sonntag	114		
Magnetic survey, Pennsylvania, Bache	166		
Magnetic telegraph, report on	115		

Mexico, history and archæology,		Museum, National, bulletins of	292,
Mayer	86	293, 294, 295, 296, 297, 303, 304, 305	
Mexico, list of birds of	185	Museum, miscellanea	164
Mexico, magnetic observations,		National museum bulletins	292,
Sonntag	114	293, 294, 295, 296, 297, 303, 304, 305	
Microscopy, Bailey	20, 23, 63	Natural history, bibliography,	
Minerals, catalogue, Egleston	156	Girard	48
Mining, ancient, Whittlesey	155	Natural history, directions	34,
Miocene fossils, Meek	183	129, 261	
Miscellanea, museum	164	Natural history of Kerguelen	
Miscellaneous collections	122, 123,	Island, Kidder and others	293
124, 125, 158, 169, 191, 212, 213,		Natural history of Hawaiian Is-	
250, 273, 274, 302		lands, etc., Streets	303
Mississippi valley, ancient monu-		Nebraska, ancient fauna, Leidy	58
ments, Squier and Davis	1, 2	Nebraska, palæontology, Meek	
Mississippi valley, physical geo-		and Hayden	172
graphy, Ellet	13	Neptune, ephemeris, Walker	4, 5,
Missouri, palæontology of upper,		6, 7, 24	
Meek and Hayden	172	Neptune, history of discovery,	
Mitchell and Morehouse, chelonia		Gould	18
159		Neptune, orbit of, Newcomb	199
Mitchell, venom, rattlesnake	135	Neptune, researches, Walker	3
Mitchell and Turner, vocabulary		Nereis-Boreali-Americana, Har-	
of jargon	68	vey	95, 96
Mollusca, Carpenter	251, 252	Nests, instructions for collecting	139
Mollusca, lectures, Carpenter	152	Neuroptera, synopsis, Hagen	134
Mollusks, families, Gill	227	Newcomb, integrals of planetary	
Mongolia, geology, Pumpelly	202	motion	281
Monograph of bats, Allen	165	Newcomb, orbit of neptune	199
Monograph of corbiculadæ, Prime		Newcomb, orbit of uranus	262
145		New Mexico, coleoptera, Le Conte	
Monograph of diptera, Loew,		126	
Osten-Sacken	141, 171, 219, 256	New York, aboriginal monuments,	
Monograph of strepomatidæ, Tryon		Squier	15
253		Nitre, explosiveness of, Hare	17
Monograph of wasps, De Saus-		Occultations, Downes	8, 9, 10, 11,
sure	254	29, 54	
Morehouse and Mitchell, chelonia		Officers, list of	N
159		Ohio, ancient works, Whittlesey	37
Morfit and Booth, chemical arts	27	Olmsted, aurora borealis	81
Morgan, circular on relationship	138	Oology, Brewer	89
Morgan, systems of consanguinity		Orbit of fire-ball, Coffin	221
218		Orbit of neptune, Newcomb	199
Morris, catalogue of lepidoptera	118	Orbit of uranus, Newcomb	262
Morris, synopsis lepidoptera	133	Orbits of planets, Stockwell	232
Mosasaurus, Gibbs	14	Oregon, trade language of, Mit-	
Muller, magnetism in Mexico	114	chell, Turner, Gibbs	68, 161
Mummy case, Pickering	208		

Orthoptera, catalogue, Scudder	189	Psychrometrical tables, Coffin	87
Osten-Sacken, catalogue diptera	102	Publications in Smithsonian li-	
Osten-Sacken, monograph diptera		brary	73, 85, 117, 179
	141, 171, 219, 256	Publications of Smithsonian In-	
Owen, hints on public architecture	P	stitution, catalogue of	74, 203,
Ox. extinct, Leidy	41		226, 245, 278, 290, 301
		Pumpelly, geology of China, Japan,	
Packard, directions, insects	261	and Mongolia	202
Palæontology of the upper Mis-		Queries relative to tornadoes	190
souri, Meek and Hayden	172		
Pennsylvania, magnetic survey,		Rainfall in United States, Schott	222
Bache	166	Rana pipiens, Wyman	45
Periodical phenomena, directions		Rattlesnake, venom of, Mitchell	135
	65, 148	Rau, archæological collections	287
Periodicals, check list of	Q	Regents, journal of	A
Periodicals in library of Smith-		Regents, list of, etc.	N
sonian Institution	73, 85, 117,	Register of periodical phenomena	65
	179	Relationship circular, Morgan	138
Peru, eclipse of sun, Gilliss	109	Relationship, systems of, Morgan	
Philology, instructions relative			218
to, Gibbs	160	Report of committee on organi-	
Photographs of Indians	216	zation	B, L
Photography, use of telescope,		Report on magnetic telegraph	115
Draper	180	Reports of Smithsonian Institu-	
Physical geography, Ellet	13	tion	G, H, I, M, 21, 28, 51, 57,
Physical observations, Hayes	196		67, 75, 77, 91, 107, 109, 110, 147,
Physical observations, Kane	198		149, 150, 187, 188, 209, 214, 215,
Physical observations, McClin-			224, 228, 244, 249, 271, 275, 286,
tock	146		298, 299
Physical tables, Guyot	31, 153	Reptiles, catalogue of, Baird and	
Physiological investigations,		Girard	49
Jones	82	Reptiles, cretaceous, Leidy	192
Pickering, mummy case	208	Reptiles, families, Cope	292
Planets, orbits, Stockwell	232	Results of meteorological obser-	
Planetary motion, Newcomb	281	vations	157, 182
Planetary tables, Runkle	79, 94	Review of North American birds,	
Plantæ Frémontianæ, Torrey	46	Baird	181
Plantæ Wrightianæ, Gray	22, 42	Rhees, public libraries	116, 238
Popocatepetl, observations of,		Rheometry, electrical, Seechi	36
Sonntag	114	Riggs, Dakota grammar and dic-	
Precipitation of rain and snow		tionary	40
in U. S., Schott	222	Rotary motion, Barnard	240
Prime, check list shells	128	Runkle, asteroid tables	94
Prime, monograph orbiculadæ	145	Runkle, planetary tables	79, 94
Problems of rotary motion, Bar-		Russian America circular	207
nard	240		
Programme of organization	P, J	Saussure. See De Saussure.	
Providence, meteorological obser-		Schott, rainfall in United States	222
vations, Caswell	103		



Schott, temperature tables	277	Stimpson, check list shells	128
Schott, reductions, meteorology, etc. 97, 103, 104, 120, 129, 130, 131, 146, 196, 198, 204, 222, 277		Stimpson, hydrobiine	201
Seudder, catalogue of orthoptera	189	Stimpson, marine invertebrata, Grand Manau	50
Secchi, rheometry	36	Stockwell, secular variations of orbits	232
Serpents, catalogue, Baird and Girard	49	Storms, Loomis	127
Shell circular	176	Streets, nat. history of Hawaiian Islands, Fanning Islands, and lower California	303
Shells, bibliography, Binney	142	Strepomatidæ, Tryon	253
Shells, check list	128	Subcutaneous surgery, Adams	302
Shells, exploring expedition	193	Sun, heat, and light, Meech	83
Shells, land and fresh-water, Binney and Bland	143, 144, 194	Sumichrast, birds of Mexico	295
Shells. <i>See</i> Mollusca.		Surgery, subcutaneous, Adams	302
Sloth, extinct, Leidy	72	Swan, Makah Indians of Cape Flattery	220
Smith, meteorological observa- tions, Washington, Ark.	131	Swan, Haidah Indians	267
Smithsonian contributions	2, 26, 38, 39, 55, 56, 76, 78, 92, 99, 111, 112, 151, 184, 206, 211, 229, 246, 272, 284, 285	Systems of consanguinity, Morgan	218
Smithsonian publications, list of	74, 203, 223, 245, 278, 290, 301	Synopsis of lepidoptera, Morris	133
Smithson's bequest, exposition	E	Synopsis of neuroptera, Hagen	134
Snow and rainfall tables, Schott	222	Tables, asteroid, Runkle	94
Societies, publications of, in Smithsonian library	73, 85, 117, 179	Tables, expansion by heat, Clarke	239
Solar system, harmonies of, Alexander	280	Tables, meteorological, Guyot	31, 153
Sonntag, magnetic observations, Mexico	114	Tables, physical, Guyot	31, 153
Soundings, examination of, Bailey	20	Tables, planetary, Runkle	79, 94
South American bird circular	186	Tables, psychrometrical, Coffin	87
Southern States microscopy, Bailey	23	Tables, rain and snow, Schott	222
Specific gravity tables, Clarke	255	Tables, specific gravity, Clarke	255
Specific gravity tables, 1st supp., Clarke	288	Tables, specific gravity, 1st supp., Clarke	288
Specific heat tables, Clarke	276	Tables, specific heat, Clarke	276
Squier, aboriginal monuments, New York	15	Tables, temperature, Schott	277
Squier and Davis, ancient monu- ments, Mississippi valley	1, 2	Tangencies, Alvord	80
Squier and Davis, correspondence relative to memoir	K	Telegram circular	263
Stanley, Indian portrait gallery	53	Telegraph, report of regents on	115
		Telescope in photography, Draper	180
		Temperature tables, Schott	277
		Temperature. <i>See</i> Kane, Hayes, Meteorology, etc.	
		Tennessee antiquities, Jones	259
		Terrestrial magnetism, Locke	35
		Thunder-storms, circular	235
		Tidal observations, Hayes	196

Tidal observations, Kane	130	Walker, Neptune	3, 4, 5, 6, 7, 24
Tidal observations, Whittlesey	119	Washington, Ark., meteorology	131
Tide, law of deposit of flood, Davis	33	Wasps, monograph, De Saussure	254
Toner lectures, I, Woodward	266	Watson, botanical index	258
Toner lectures, II, Brown-Séguard	291	Whittlesey, ancient mining	155
		Whittlesey, ancient works, Ohio	37
Toner lectures, III, Da Costa	279	Whittlesey, fluctuations level of	
Toner lectures, IV, Wood	282	lakes	119
Toner lectures, V, Keen	300	Whittlesey, glacial drift	197
Toner lectures, VI, Adams	302	Will of Smithsonian	B, 67
Tornado, Chappelsmith	59	Winds of northern hemisphere,	
Tornadoes, queries relative to	190	Coffin	52
Torrey, Batis Maritima	60	Winds of the globe, Coffin	268
Torrey, Darlingtonia Californica	61	Wilkes, exp. exped., shells of	193
Torrey, Plantæ Frémontiana	46	Wisconsin, antiquities of, Lap-	
Trade language of Oregon	161	ham	70
Transatlantic longitude, Gould	223	Wood, fresh-water algæ	241
Tryon, strepomatidæ	253	Wood, meteorological observa-	
Turner and Mitchell, vocabulary		tions, Marietta	120
of jargon	68	Wood, study of fever	282
Uranus, orbit of, Newcomb	262	Woodward, cancerous tumors	266
Venom of rattlesnake, Mitchell	135	Wyman, Rana pipens	45
Vocabulary, comparative, Gibb.	170	Yoruba grammar and dictionary,	
Vocabulary of jargon, Mitchell,		Bowen	98
Gibbs	68, 161		
Vocal sounds of L. Bridgeman	12		

## 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.

- JEWETT, Report on Plan of Library.  
LOOMIS, Report on Meteorology of the United States.  
ESPY, On Meteorology.

##### Report for 1848.

- JEWETT, Report on Library.  
STEVENS, Prospectus of a Bibliographia Americana.  
HARE, Letter relative to Gift of Apparatus.  
GUYOT, On Metric System for Scientific Observations.

##### 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.  
BAIRD, Report on Museum, and Statistics of British Museum.  
CULBERTSON, Expedition to the Mauvaises Terres and Upper Missouri.

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 Smithsonian Fund.  
 SQUIER, Antiquities from Nicaragua.  
 Report of Commission on General Library Catalogue System.  
 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 of Committee of American Association for Advancement of Science, on  
 System of Combined Meteorological Observations for North America.

#### Report for 1852.

JEWETT, Report on Library, and Halliwell Manuscripts.  
 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 Smithsonian.  
 Letter from Hon. Richard Rush relative to James Smithsonian.  
 Notice of Smithsonian by Davies Gilbert, President of the Royal Society.  
 List of Papers presented to Royal Society by James Smithsonian.  
 Contributions to Annals of Philosophy by James Smithsonian.  
 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.  
 BRAINARD, Lecture on Nature and Cure of Bites of Serpents and the Wounds  
 of Poisoned Arrows.  
 LOOMIS, Lecture on the Zone of Small Planets between Mars and Jupiter.  
 CHANNING, Lecture on the American Fire Alarm Telegraph.

- 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.  
 JACKSON, Catalogue of Rocks, Minerals, and Ores collected on Geological Sur-  
 vey in Michigan.  
 LOCKE, Catalogue of Rocks, Minerals, Ores, and Fossils.  
 FOSTER, Catalogue of Rocks, Minerals, etc.  
 WHITNEY, Catalogue of Rocks, Minerals, etc.  
 OWEN, Catalogue of Geological Specimens.  
 BERLANDIER, Catalogue of Collection of Historical and Geographical Manu-  
 scripts, Maps, etc.  
 Libraries, Circular Respecting New Report on.  
 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 Algæ.  
 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.  
 GUYOT and HENRY, Directions for Meteorological Observations.  
 HENRY, Earthquake Directions.  
 HENRY, Aurora Directions.  
 Green's Barometer.  
 Registration of Periodical Phenomena.

- MASTERMAN, Observations on Thunder and Lightning.  
 LETTERMAN, Sketch of the Navajo Indians.  
 CLINGMAN, Topography of Black Mountain, North Carolina.  
 New Mexico, Spanish Works on, Communication relative to Publication of.  
 MÜLLER, Report on Recent Progress in Physics—Galvanism.

#### Report for 1856.

- KOHL, On a Collection of the Charts and Maps of America.  
 RAID, Architecture in relation to Ventilation, Warming, Lighting, Fire-proofing, Acoustics, and the General Preservation of Health.  
 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.  
 SHARPLESS and PATTERSON, Phonography.  
 Institutions in which Phonography is taught.  
 WALL and SAWKINS, Report of the Survey of the Economic Geology of Trinidad.  
 BABBAGE, On Tables of the Constants of Nature and Art.  
 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.  
 MEECH, Relative Intensity of the Heat and Light of the Sun.  
 MÜLLER, 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.  
 HENRY, History of the Electro-Magnetic Telegraph.  
 LECOTE, 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.  
 MÜLLER, Report on Recent Progress in Physics—Electricity, Galvanism.

**Report for 1858.**

## Correspondence:

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

On Continuance of Magnetic Observations. Edward Sabine.

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.

MARTINS, 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.



## Correspondence :

- Presentation of books. Duke of Northumberland.  
 Priestley's lens  
 Free Freight to Smithsonian Institution, between United States and  
 England. E. Cunard.  
 Request for Duplicate Shells. W. E. Logan.  
 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.  
 RETZIUS, 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 Insti-  
 tution. ·  
 POGGENDORFF, On the Use of the Galvanometer as a Measuring Instrument.  
 MALET, 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 Pro-  
 cesses employed in the Verification of Barometers at the Kew Observatory.

**Report for 1860.**

## Correspondence :

- Memorial relative to Lowe's Aeronautic Voyage across the Atlantic.  
 Citizens of Philadelphia.  
 Presentation of Books on Egypt. R. Lepsius.  
 On Smithsonian Exchanges. F. Müller.  
 On Smithsonian Exchanges. Wm. Hincks.  
 HENRY, Reply to Memorial on Lowe's Aeronautic Voyage.  
 HENRY, On Currents of the Atmosphere and Aerial Navigation.  
 ROGERS, Lectures on Roads and Bridges.  
 CARPENTER, Lectures on Mollusca, or shell-fish, and their Allies.  
 MORLOT, General Views on Archæology.  
 The Microscope.  
 NICKLÉS, 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.  
 VOLLM, 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:

- Smithson's Residuary Legacy. Fladgate, Clarke, and Finch.  
 Free Freight to Smithsonian Institution, between United States and  
 Germany. Kunhardt & Co.  
 Lacustrian Habitations. F. Troyon.  
 Archæology. A. Morlot.  
 Map of Antiquities of United States. A. J. Hill.  
 Exchanges. Royal Academy of Science, Madrid.  
 Exchanges. Mexican Soc. of Geog. and Statistics.  
 Neuroptera. H. Hagen.  
 Exchange of Specimens. Hamilton College, Clinton, N. Y.  
 Acknowledgment for Books. J. A. Codd.  
 Arrangement of Mineralogical Collection. C. U. Shepard.  
 Scientific Co-operation. University of Toronto.  
 Exchange of Publications. Royal Horticultural Society, London.  
 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.  
 Account of Library of Indian Linguistics. J. G. Shea.
- 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.  
 FLOURENS, Memoir of Geoffroy Saint Hilaire.  
 LAUGEL, The Sun, its Chemical Analysis.  
 LEE, Progress of Astronomical Photography.  
 LESPIAULT, Small Planets between Mars and Jupiter.  
 DUFOUR and KÄMTZ, Scintillation of the Stars.  
 DAUBRÉE, Metamorphism and the Formation of Crystalline Rocks.  
 CRAIG, Nitrification.  
 HUNT, History of Petroleum or Rock-oil.  
 ALLEN, Explosibility of Coal Oils.  
 Destructive Effect of Iron-rust.  
 TROYON, Lacustrian Cities of Switzerland.  
 RUTMEYER, Fauna of Middle Europe during the Stone Age.  
 TROYON, Report on Ethnological Collections of Museum at Lausanne.  
 TROYON, Archæological Researches made at Concise.

- PEALE, Ancient Mounds in St. Louis, Missouri.  
 GIBBS, Instructions for Archaeological Investigations.  
 Circular, Ancient Mining in Lake Superior Copper Region.  
 MORGAN, Suggestions relative to Ethnological Map of North America.  
 COLES and PRENTISS, List of Birds of the District of Columbia.  
 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.  
 Deposit of Bishop Johns' Library. Gen. Edw. Canby.  
 Meteorological Telegrams. H. Sibley, West. Union Tel. Co.  
 Heights of Mountains in Colorado. G. Engelmann.  
 On Mountain Measurements. A. Guyot.  
 Investigations of Biela's Comet. J. S. Hubbard.  
 History of Chester Co., Penna. Wm. Darlington.  
 Ethnographical Collections. Theodore Lyman.  
 Ethnographical Collections. H. de Schlagintweit.  
 Ethnological Museum of Norway. Louis K. Daa.  
 Antiquities in Missouri and Tenn. I. Dille.  
 Skulls and Mummy from Patagonia. A. Reid.  
 Philological Circular. Geo. Gibbs.  
 Ethnological Map of United States. Geo. Gibbs.  
 Indian Vocabularies. Geo. Gibbs.  
 Systems of Relationship of Cree Indians. E. A. Watkins.  
 Indian Languages. Geo. Flachenecker.  
 Natural History of Pacific Islands. W. H. Pease.  
 Herbarium captured in Tennessee. Dr. H. R. Wirtz.  
 Acknowledgment for Ferns. G. Mettenius.  
 Hymenoptera. H. De Saussure.  
 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.  
 LUBBOCK, North American Archæology.  
 FLOURENS, Historical Sketch of the Academy of Sciences of Paris.  
 FLOURENS, Memoir of Leopold von Buch.  
 FLOURENS, Memoir of Louis Jacques Thenard.  
 QUATREFOGES, Memoir of Isidore Geoffroy St. Hilaire.  
 PHIPSON, The Catalytic Force, or Studies on the Phenomena of Contact.  
 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 :

- Discussion of Piazzi's Astronomical Observations. B. A. Gould.  
 Project of an Outline History of Education in the United States. F. A. Packard.  
 Exchange of Publications. Chamber of Commerce of Bordeaux.  
 Exchange of Publications. Agricultural Association of Milan.  
 Tucson Meteorite. Dr. B. J. D. Irwin.  
 Tucson Meteorite. Santiago Ainsa.  
 Cone-in-cone. Henry Poole.  
 Acknowledgment for Birds. Hungarian Nat. Museum.  
 Ethnological Specimens presented. University of Christiania, Norway.  
 Tertiary Fossils presented. Imp. Geolog. Institute, Vienna.  
 Electrotypes of Shell Engravings granted. British Museum.  
 Acknowledgment of Perrenibranchiata. Dr. J. G. Fisher.  
 Honorary Medal to Von Martius. W. Haidinger.  
 Kennicott's Explorations. Hndson's Bay Co.  
 WHITNEY, Lectures on the Principles of Linguistic Science.  
 DEBEAUMONT, Memoir of C. F. Bautemps-Beaupré.  
 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.  
 MARCET, Report on Society of Physics and Natural History of Geneva, from July, 1862, to June, 1863.  
 PLATEAU, Experimental and Theoretical Researches on the Figures of Equilibrium of a Liquid Mass withdrawn from the Action of Gravity. Part I. History of Discovery relative to Magnetism.  
 GAUTIER, Researches relative to the Nebulæ.  
 MERINO, Figure of the Earth.  
 ARAGO, Aeronautic Voyages, etc.  
 GLAISHER, Account of Balloon Ascensions.  
 BAEGERT, Aboriginal Inhabitants of the California Peninsula.  
 JONES, Kjækken-Mødding in Nova Scotia.  
 MORLOT, Abstract of Dr. Keller's Report on Lacustrine Settlements.  
 RAU, 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.  
 DANILSEN, 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."  
 Report of Committee of Regents in relation to the Fire, January, 1865.  
 FOURIER, Memoir of Delambre.  
 DELAUNAY, Essay on the Velocity of Light.  
 WETHERILL, Ozone and Autozone.  
 JAMIN, Vegetation and the Atmosphere.  
 BECQUEREL, 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 Gun-powder.  
 PETTENKOFER, Apparatus for testing the results of Perspiration and Respiration.  
 LAMONT, The Solar Eclipse of July 18, 1860.  
 DEPRADOS, Eclipse of the Sun, April 25, 1865.  
 DUBY, Report on the Transactions of the Society of Physics and Natural History of Geneva, 1861.  
 DECANDOLLE, Report on the Transactions of the Society of Physics and Natural History, 1862.  
 TROYON, On the Crania Helvetica.  
 PLATEAU, 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 1860, by John Fellner, 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.

**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.
- Exchange System. Mexican Soc. of Geog. and Statistics.
- Climate of Colorado. Jno. Evans.
- Remarkable Electric Phenomenon. W. F. Given.
- Explorations of the Nile. Chas. Hale.
- Exchange System. Mining Dept., Melbourne.
- Meteorites in Mexico. Gen. J. H. Carleton.
- 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.
- Indian Languages. Geo. Gibbs.
- Books on Brazil presented. M. M. Lisboa.
- Specimens from Brazil presented. Brazilian Nat. Hist. Museum.
- Request for Bison. Bern Museum.
- Books presented. Imperial Library of Vienna.
- Introducing and Recommending Dr. Berendt. F. W. A. Brnce, 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.
- Exchange System. Government of Bremen.
- Meteorological System of Canada. J. G. Hodgins.
- Acknowledgment of Specimens. British Museum.
- Objects of the Museum. Toronto University.
- Account of the Indians of British America. Rev. E. Petitot.
- Act of Congress to transfer Smithsonian Library to Library of Congress.
- BARNARD, Enlogy on Gen. Jos. G. Totten.
- FLOURENS, Memoir of Ducrotay de Blainville.
- CROSSAT, Report on the Transactions of the Society of Physics and Natural History of Geneva, from July, 1863, to June, 1864.
- PLANTAMOUR, Report on the Transactions of the Society of Physics and Natural History of Geneva, from July, 1864, to June, 1865.
- 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.

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.

Memoir of W. W. Seaton.

Report on System of Accounts.

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.

GOSSE, Report on the Transactions of the Society of Physics and Natural  
History of Geneva, from July, 1865, to June, 1866.

GIBBS, Notes on the Tinneh or Chepewyan Indians of British and Russian  
America. 1. The Eastern Tinneh, by Bernard R. Ross, Esq. 2. The  
Loucheux Indians, by William L. Hurdist. 3. The Kutchin Tribes, by  
Strachan Jones, Esq.

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.

GIBBS, Physical Atlas of North America.

DAVIS, On Ethnological Research.

SCHERZER and SCHWARZ, Table of Anthropological Measurements.

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

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

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

WOOD, Instructions for Collecting Myriapods, Phalangidæ, etc.



- WETHERILL, Plan of a Research upon the Atmosphere.  
 LEWIS and QUALK, 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.  
 The Winds and Fog. James Balfour.  
 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.  
 Formation of Clouds over Gulf Stream. H. M. Bannister.  
 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.  
 Account of Portland Soc. of Nat. Hist. E. C. Bolles.  
 Exchange System. Bath and West of Eng. Soc. for Encour. of Agric.,  
 Arts, etc.  
 Exchange of Specimens. Hamburg Zool. Gardens.  
 Acknowledgment for Specimens. Chicago Acad. of Sciences.  
 Improved System of Numeration. W. B. Taylor.  
 Exchange System. St. Petersburg Acad. of Sciences.  
 Schlagintweit Ethnographic Collection. H. Zisgenbals.  
 Sparrows sent to United States. W. A. Lloyd.  
 Exchange of Specimens. W. A. Lloyd.  
 Exchange of Specimens. Museum of Nat. Univ. of Greece.  
 Acknowledgment for Books on Education. M. Laboulaye.  
 Acknowledgment of Birds. Acad. of Sciences, Stockholm.  
 Acknowledgment of Birds. Jno. Gould.  
 Gradual Approach of Sea upon Land. S. P. Mayberry.  
 Exchange of Specimens. University of Costa Rica.  
 GULD, 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 Legendre.

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.

MAREY, 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,  
New Haven Journal, S. D. Martin, G. Wright, C. G. Boerner, W. S. Gil-  
man, C. W. Dean, J. A. Osborne.

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 Poulkova.

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 Burial Mound in Indiana. William Pidgeon.

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.

Eruption of a Volcano in Nicaragua. A. B. Dickinson.

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.**

- Report of Committee of Regents on Washington Canal.  
 FLOURENS, Memoir of Cuvier.  
 FLOURENS, History of the Works of Cuvier.  
 DEBEAUMONT, Memoir of Oersted.  
 Notice of Christian Frederic Schönbein, the discoverer of Ozone.  
 Appendix to Notice of Schönbein, by Professor Henry.  
 HAGEN, Memoir of Encke.  
 RAWSON, Memoir of Eaton Hodgkinson.  
 CAZIN, Recent Progress in relation to the Theory of Heat.  
 MULLER, Principles of the Mechanical Theory of Heat.  
 MAGRINI, Continous vibratory movement of all matter, ponderable and imponderable.  
 TYNDALL, Radiation.  
 DAUBRÉE, Synthetic Experiments relative to Meteorites.  
 BRUSH, Catalogue of Meteorites in the Mineralogical Collection of Yale College.  
 DESAUSSURE, 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.  
 WARTMANN, Report on the Transactions of the Society of Physics and Natural History of Geneva, from July, 1867, to June, 1868.  
 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.  
 Notice of the Blackmore Museum, Salisbury, England.  
 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.  
 DEBEAUMONT, 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.  
 LOMBARD, Report on the Transactions of the Society of Physics and of Natural History of Geneva, July, 1868, to June, 1869.  
 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 Palæontology.  
 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.  
 SARTORIUS, 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, The History of my Youth, an Autobiography.  
 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.  
 HAUGTON, 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.  
 BABINET, The Diamond and other Precious Stones.  
 Ethnology:  
 On the Language of the Aboriginal Indians of America. George Gibbs.  
 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 Antiquities in Tennessee. E. O. Dunning.  
 Account of Ancient Mounds in Georgia. M. F. Stephenson, Gainesville,  
 Georgia.  
 Explorations in Tennessee. E. A. Dayton.  
 Account of the Sarcophagus in the National Museum, now in charge of  
 the Smithsonian Institution. Rear Admiral A. A. Harwood, United  
 States Navy.  
 Account of the Discovery of a Stone Image in Tennessee, now in posses-  
 sion of the Smithsonian Institution. Edw. M. Grant.  
 On Mixed Races in Liberia. Edw. D. Blyden.  
 On Shell-heaps. Rev. James Fowler, of New Brunswick.  
 On the Uses of the Brain and Marrow of Animals among the Indians of  
 North America. Titian R. Peale.  
 Report of an Exploration of Ancient Mounds in Union County, Kentucky.  
 Sidney S. Lyon.  
 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.

## Terrestrial Physics :

The Earthquake in Peru, August 13, 1868. J. V. Campbell.

The Electro-Magnetic Seismograph. Prof. Palmieri, of the University of Naples.

On the Distribution of Forest Trees in Montana, Idaho, and Washington. W. W. Johnson.

Influence of the Aurora on the Telegraph. W. D. Sargent.

## Meteorology :

New Classification of Clouds. Prof. Andre Poëy.

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, Enlogy on Joseph Fourier.

ODLING, Professor Thomas Graham's Scientific Work.

HELMHOLTZ, On the Relation of the Physical Sciences to Science in General.

KORNÜBER, 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.

DESAUSSURE, Report on the Transactions of the Society of Physics and Natural History of Geneva, from July, 1870, to June, 1871.

Expedition toward the North Pole :

Scientific Instructions to Captain Hall. Henry, Hilgard, Newcomb, Baird, Meek, Agassiz.

## Ethnology :

Indian Mounds near Fort Wadsworth, 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, Kuskuslkee, 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.

## 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.

On the Language of the Dakota or Sioux Indians. F. L. O. Rœhrig.

## Meteorology, with Notes by Professor Henry:

Meteorology of Porto Rico. George Latimer.

Meteorology of the Green River Country. Colonel Collins.

Distinction between Tornadoes and Tempests. Lamark.

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-  
physics.

WEIKOFF, Meteorology in Russia.

DOXATI, Phenomena in telegraphic lines during the Aurora Borealis.

## Ethnology:

The Troglodytes, or Cave-dwellers, of the Valley of the Vézère. Paul  
Broca.

Ancient Aboriginal Trade in North America. Charles Rau.

North American Stone Implements. Charles Rau.

Indian Engravings on the face of rocks along Green River valley in the  
Sierra Nevadas. J. G. Bruff.

Ancient Ruin in Arizona. J. C. Y. Lee.

## 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.  
 Prehistoric Remains in vicinity of City of Washington, D. C. T. R. Peale.  
 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.  
 GOULD, Account of the Astronomical Observatory at Cordoba, Argentine  
 Republic.  
 MAILLY, Estimate of the Population of the World.  
 MORIN, Warming and Ventilating Buildings. Part I.  
 DEFOREST, Additions to a Memoir on methods of interpolation. Part II.

## Ethnology :

- Remarks on the Kjökken-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.  
 The Mound-builders and Platyemism in Michigan. Henry Gillman.  
 The Leipsic "Museum of Ethnology." A. Schott and Otis T. Mason.  
 Antiquities of Union County, Illinois. Thomas M. Perrine.  
 Antiquities of Knox County, Indiana, and Lawrence County, Illinois.  
 Dr. A. Patton.

## Miscellaneous Correspondence :

- Explorations on the Western Coast of North America. Wm. H. Dall.  
 Discovery of a large Meteorite in Mexico. William M. Pierson.  
 On the Habits of the Beaver. Felix R. Brunot.  
 On a National Library. W. S. Jevons.

## 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.

## Report of Committee of Regents on the Museum.

- 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.  
 DE LA RIVE, Report on the Transactions of the Society of Physics and Natural History, of Geneva, from July, 1872, to June, 1873.  
 MORIN, Warming and Ventilating Buildings. Part II.  
 Ethnology :  
 Ancient Graves and Shell-heaps of California. Paul Schumacher.  
 Account of the Burial of an Indian Squaw, San Bernardino County, California. W. M. King.  
 Ancient Mounds of Mercer County, Illinois. Tyler McWhorter.  
 Antiquities of Whitesides County, Illinois. W. H. Pratt.  
 A Study of Skulls and Long Bones, from Mounds near Albany, Illinois. 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 Yazoo County, Mississippi. J. W. C. Smith.  
 Antiquities of Tennessee. Dr. Daniel F. Wright.  
 Antiquities of Blount County, Tennessee. Miss Annie E. Law.  
 Antiquities of Orleans County, New York. Frank H. Cushing.  
 Antiquities of La Porte County, Indiana. R. S. Robertson.  
 Antiquities of Allen and De Kalb Counties, Indiana. R. S. Robertson.



## Ethnology :

- Antiquities of Jackson County, Tennessee. Rev. Joshua Haile, and James W. McHenry.  
 Antiquities of Perry County, Ohio. W. Anderson.  
 Antiquities of Charles County, Maryland. Oliver N. Bryan.  
 Antiquities of Stanley and Montgomery Counties, North Carolina. F. J. Kron.  
 Antiquities of Florida. Dr. Augustus Mitchell.  
 Antiquities of Florida. John Bartram.

## 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.  
 DECANDOLLE, Report on the Transactions of the Society of Physics and Natural History of Geneva from July, 1873, to June, 1874.  
 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 Archæology. Mortillet and Chantre.  
 Characteristics pertaining to Ancient Man in Michigan. Henry Gillman.  
 The Stone-age in New Jersey. Dr. C. C. Abbott.

## Report for 1876.

- BAIRD, Report on Centennial Exhibition.  
 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.  
 McPARRLIN, Notes on the History and Climate of New Mexico.  
 Ethnology :  
 The Latimer Collection of Antiquities from Porto Rico in the National Museum, at Washington, D. C. O. T. Mason.  
 Prehistoric Antiquities of Hungary. F. F. Romer.  
 Jade. A Historical, Archæological, and Literary Study of the Mineral called Yu by the Chinese. S. Blondel.  
 Antiquities in Guatemala. Hon. Geo. Williamson.  
 Collection of Historical Documents in Guatemala. Dr. C. H. Perendt.  
 Observations on the Prehistoric Mounds of Grant County, Wisconsin. Moses Strong.

## Ethnology :

- Deposits of Flint Implements. J. F. Snyder.  
Ancient Mica Mines in North Carolina. C. D. Smith.  
Double-Walled Earthwork in Ashtabula County, Ohio. Stephen D.  
Peet.  
Ancient Implement of Wood. E. W. Ellsworth.  
Centennial Mission to the Indians of Western Nevada and California.  
Stephen Powers.  
Indian Forts and Dwellings. Dr. W. E. Doyle.  
The Sioux or Dakota Indians. Col. A. G. Brackett.