

BURTON-ON-TRENT

Natural History & Archæological Society,

46, HIGH STREET.

Annual Report, Balance Sheet, &c., &c.,

FOR THE

YEAR ENDING SEPTEMBER 30th, 1892.

BURTON-ON-TRENT:

WALTER FRANKS, PRINTER, BRIDGE STREET.

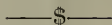
1892



PAST PRESIDENTS.

- 1876-77—S. EVERSLED, Esq., M.P.
 1877-78— " " "
 1878-79—REVD. C. F. THORNEWILL, M.A.
 1879-80—H. G. TOMLINSON, Esq.
 1880-81—W. MOLYNEUX, Esq.
 1881-82—R. THORNEWILL, Esq.
 1882-83—C. O'SULLIVAN, Esq., F.R.S.
 1883-84—REVD. C. F. THORNEWILL, M.A.
 1884-85—HON. G. H. ALLSOPP, M.P.
 1885-86—J. T. HARRIS, Esq.
 1886-87— " " "
 1887-88—HORACE T. BROWN, Esq., F.R.S.
 1888-89— " " " "
 1889-90—P. B. MASON, Esq., J.P., M.R.C.S., F.Z.S., F.L.S., &c.
 1890-91— " " " " "
 1891-92—T. KNOWLES, Esq., M.A.

ANNUAL GENERAL MEETING, 1892.



The SIXTEENTH ANNUAL GENERAL MEETING was held in the CLASS ROOM, ST. PAUL'S INSTITUTE, on Friday, October 7th, 1892.

The President (MR. T. KNOWLES) was in the Chair, and a large number of Members was present.

The Hon. Secretary read the Report and Balance Sheet for the past year as follows:—

—

REPORT OF THE COMMITTEE FOR 1891-92.

In presenting their Report for the 16th Session, the Committee have to chronicle a very uneventful year in the history of the Society, but one during which the steady progress of the past few years has been well maintained.

The Monthly General Meetings have again been held in the Masonic Hall, and the interest evinced in them by the Members shows no signs of decreasing. Papers were read on each evening by members of the Society, and the average attendance (49.3) is still a very high one.

The Titles of the Papers read and the Authors were—

- Friday, Oct. 23rd—Annual General Meeting and Exhibition of Lantern Slides by the Photographic Section.
- Friday, Nov. 20th—President's Inaugural Address—"Studies in English Spelling: its Methods and Delusions."
- Friday, Dec. 18th—"Examples of Mimicry amongst the British Lepidoptera," by Rev. C. F. Thornehill, M.A.
- Friday, Jan. 15th—"The Peasant's Revolt of 1381," by H. Bence, B.A.
- Friday, Feb. 19th—"Some Notes on British Ferns, and their Distribution," by The Right Revd. Bishop Mitchinson, D.C.L., F.L.S., &c.
- Friday, Mar. 18th—"Westminster Abbey and its Monuments," (Part 1) by R. Moxon.
- Friday, April 8th—"A Trip to the Minor Colonies of the British Empire," by R. Harrison.

NATURAL HISTORY & ARCHAEOLOGICAL SOCIETY.

BALANCE SHEET FOR YEAR ENDING SEPTEMBER 30TH 1892.

	£		s.	d.
Dr.				
To Balance in hand	30		13	0
„ Subscriptions	52		16	0
„ Hire of Lantern, &c.	1		1	0
	£84		10	0
Cr.				
By Transferred to Publication Account	0		12	0
„ Rent of Room—46, High Street	1		1	0
„ Hire of Anatomic Hall	0		15	9
„ Printing and Stationery	1		14	4
„ Refreshments at General Meetings	1		10	10
„ Director's Commission	2		14	0
„ Directing Notices, &c.	1		8	6
„ Postages	6		6	2
„ Altering and Repairing Lantern—				
G. Taylor	0		12	0
J. Lancaster & Son	1		1	0
Newton & Co.	0		15	9
P. Harris & Co.	1		16	11
„ Hats—46, High Street	4		5	8
„ Purchase of Oxygen	0		5	10
„ Lime Cylinders	0		16	8
„ Books and Bookbinding	0		3	5
„ Preparing Lantern Slides—Mr. Nowers	0		5	6
„ Carriage of Oxygen Cylinder, &c.	0		4	1
„ Secretary's Sundries	0		6	0
„ Cheque Stamps	0		2	6
„ Transferred to Publication Account	3		2	9
„ Balance	21		0	7
	£84		10	0

G. HARRIS MORRIS,

Hon. Secretary.

CHAS. GEO. MATTHEWS,

Audited and found correct

Staffordshire County Council

Sample

Publications Society

THE WEATHER OF 1891.

The year 1891 must be classed among those of almost normal mean temperature in spite of the abnormal temperatures of its months ; and with a rainfall somewhat below the average, makes the fifth dry year in succession. Its most noticeable features are the sharp frosts of January, the unprecedentedly low rainfall of February, the cold Spring and Summer, and the warm Autumn.

MEAN SHADE TEMPERATURE.

	Means for 1891.	Averages of 1876-90.	Difference of 1891 from average.
Jan.	33·9	36·5	— 2·6
Feb.	39·8	39·0	+ 0·8
Mch.	38·9	39·8	— 0·9
Apl.	41·7	44·2	— 2·5
May	47·6	50·1	— 2·5
June	56·5	56·7	— 0·2
July	56·7	59·7	— 3·0
Aug.	55·0	58·9	— 3·9
Sept.	56·2	54·4	+ 1·9
Oct.	48·3	46·9	+ 1·4
Nov.	41·8	41·6	+ 0·2
Dec.	38·5	36·9	+ 1·6
Year	46·3	47·1	— 0·8

The severe frost which set in on 13th December, 1890, continued till the 22nd of January, a period of 41 days, and, though the latter part of January was mild, the mean temperature of the month, as a consequence, was very low. February was rather warmer than the average, but from March to August was a series of six months all of which were cold, and four of them (April, May, July, and August) extremely so. Thence to the end of the year the mean temperature exceeded the average, and particularly so in the case of September.

RAINFALL.

	Totals for 1891.	Averages of 1876-90.	Difference of 1891 from average.
Jan.	1·82	1·95	— 0·13
Feb.	0·11	1·93	— 1·82
Mch.	1·50	1·81	— 0·31
Apl.	1·73	2·04	— 0·31
May	2·38	2·34	+ 0·04
June	2·99	2·39	+ 0·60
July	2·09	2·67	— 0·58
Aug.	4·21	2·65	+ 1·56
Sept.	1·27	2·43	— 1·16
Oct.	4·06	2·68	+ 1·38
Nov.	1·67	2·56	— 0·89
Dec.	3·39	2·45	+ 0·94
Year	27·22	27·90	— 0·68

The paucity of the rainfall in February is unparalleled during the time of which I hold records, the nearest amount to it being .29 in July, 1885, and the nearest approach in any February being .51 in 1887. This drought was generally experienced over the whole of England, save the few northern counties, and reached its zenith in Bedford and Middlesex where the rainfall only averaged just over a hundredth of an inch. The proverb of "February fill dyke" is certainly untrue as regards Burton, for February is here, allowing for the number of the days, the fourth driest month of the year, March heading the list, January being second, and April third. From March to July the rainfall calls for no comment, but from August to the end of the year, wet months alternated with dry ones. August was the wettest month of its name since 1881.

The maximum temperature in the sun, 96.1, was registered on July 16th, and the minimum on the grass, 2.1, on January 19th. The latter temperature with the exception of - 0.7 recorded on December 22nd, 1890, was the lowest for the past 16 years. The maximum temperature in the shade, 80.5, was not reached until September 11th, the latest date during the past 16 years, and the lowest maximum since 1883. The minimum temperature, 6.1, was recorded on January 10th. The last frost on the grass of the Winter 1890-91 was not registered till June 13th, twelve days later than any previous year since 1876; the first frost of the succeeding Winter being recorded on August 30th.

South-westerly winds were the most prevalent during the year, blowing on 74 days.

DETAILED REMARKS ON THE MONTHS.

JANUARY opened with an unbroken spell of frost from 1st to 22nd, which reached its greatest severity on 19th. The Trent was frozen over from the beginning of the month to the 24th, during the whole of which time there was skating. From 22nd to the end the weather was mild and wet. Very little snow and fog, and 21 frosts in the air, and 26 on the grass were recorded.

FEBRUARY was a mild month and an extremely dry one, and was accompanied by a very high barometer, which averaged 30.47 inches and only once fell below 30. Thick fogs and hoar frost prevailed from 17th to the end, but there was no snow. There were 14 frosts in the air, and 18 on the grass.

MARCH opened with an exceptionally warm day, but the remainder of the month was, on the whole, cool. The rainfall was rather below the average, but there was a fair amount of snow. Gales blew from 2nd-6th, and from 25th - 30th, and there were 12 frosts in the air and 18 on the grass.

APRIL, with the exception of the last day, was unusually cold, bitterly cold winds blowing from 15th to 29th, but, save the first six days, which were wet, the month was very dry. There was thunder and lightning on 5th, 7 frosts in the air and 17 on the grass, but no snow.

LIST OF MEMBERS,

DECEMBER, 1892.

HONORARY MEMBERS.

BAKER, G., Rose Mount Road, Burton-on-Trent.
 BLATCH, W. G., Temple Road, Knowle, Birmingham.
 DAWKINS, W. BOYD, M.A., F.R.S., F.G.S., &c., The Owen's College,
 Manchester.
 HARRISON, W. J., F.G.S., 265, Lodge Road, Hockley, Birmingham.
 HERON, J., B.E., F.C.S., F.I.C.S., Ellerdale, Cottenham Park, Wimbledon.
 MELLO, REV.D. J.M., F.G.S., &c., Mapperley Vicarage, near Derby.
 THORNEWILL, REV. C. F., M.A., The Vicarage, Bakewell.
 TRIPP, C. U., M.A., F.R.Met.S.

Adams, A. Bearwood Hill Road.
 Allsopp, Hon. G. H., M.P., J.P. Foston Hall.
 Atkinson, G. D. Newton Road.
 Atkinson, Mrs. G. D. " "
 Auty, R. H. Arthur's House, Ashby Road.
 Auty, Mrs. R. H. " " "
 Baggley, C. 13, Sydney Street.
 Barnes, Revd. E. G. Child Street.
 Baxter, F. Ivy House, Lichfield Street.
 Beardmore, T. Newnham Road.
 Beaven, Revd. F. H. St. Paul's Vicarage.
 Beckett, Revd. T. W., M.A. School House, Lichfield Street.
 Beels, G. 104, Horninglow Street.
 Bence, H., B.A. Ashby Road.
 Benson, A. E. Shobnall Road.
 Bernard, Mrs. Rose Mount Road.
 Blackburn, R. N. Blackpool Street.
 Boyle, Rev. Vicars A. The Soho.
 Boyle, Miss " "
 Bound, C. J. Blackpool Street.
 Bramell, Rev. J. Branstone Vicarage.
 Bridgman, H. E., M.R.C.S., L.R.C.P. Bridge Street.
 Briggs, S. Branstone Road.

NUMBER	TITLE	AUTHOR.
47	Dale and its Abbey	<i>J. Ward.</i>
48	History of Uttoxeter	<i>Redfern.</i>
49	British Mollusks	<i>Tate.</i>
50	The Bone Caves of Cresswell Crags	<i>Mello & Dawkins.</i>
51	Old English Churches	<i>Markland.</i>
52	Moab's Patriarchial Stone	<i>King.</i>
53	A List of Diurnal Birds of Prey	<i>H. Gurney.</i>
54	History of British Butterflies	<i>Rev. F. O. Morris.</i>
55	Lepidopterist's Calendar	<i>J. Merrin.</i>
56	Larva Collecting and Breeding	<i>Rev. J. S. St. John.</i>
57	British Beetles	<i>Rye and Fowler.</i>
58	British Pyramids	<i>J. H. Leech.</i>
59	British Tortoises	<i>S. J. Wilkinson.</i>
60	Insect Hunter's Companion	<i>Rev. J. Greene.</i>
61	Flora of Derbyshire	<i>Rev. W. H. Painter.</i>
62	Flora of West Yorkshire	<i>Yorkshire Naturalists' Union.</i>
63	Flora of Repton	<i>Garneys and others.</i>
64	Lectures on the Physiology of Plants	<i>Sachs.</i>
65	Flora of Warwickshire	<i>J. E. Bagnall.</i>
67	Naturalistic Photography	<i>Dr. P. H. Emerson.</i>
68	Chemistry of Photography	<i>R. Meldola.</i>
69	Dictionary of Photography	<i>E. J. Wall.</i>
70	Book of the Lantern	<i>T. C. Hepworth.</i>
71	Negative Making	<i>Capt. W. de W. Abney.</i>
72	Processes of Pure Photography	<i>Burton and Pringle.</i>
73	Chemistry of Light and Photography	<i>H. Vogel.</i>
74	Reports of the Burton-on-Trent Natural History and Archæological Society, 1876-84.	
75	Transactions do. do. do. do. Vol. 1	
76	Do. do. do. do. do. II.	
100	Year Book on Scientific and Learned Societies, 1887.	
101	" " " " " 1888.	
102	" " " " " 1889.	
103	" " " " " 1890.	
104	" " " " " 1891.	
110	Report of the British Association (Birmingham) 1886.	
111	" " " (Manchester) 1887.	
112	" " " (Bath) 1888.	
113	" " " (Newcastle) 1889.	
114	" " " (Leeds) 1890.	
115	" " " (Cardiff) 1891.	
120	Midland Naturalist, 1884.	
121	" " 1885.	
122	" " 1886.	
123	" " 1887.	
124	" " 1888.	
125	" " 1889.	
126	" " 1890.	
127	" " 1891.	
135	Handbook to Cardiff—Compiled for British Association Meeting.	
140	Optical Projection	<i>Lewis Wright.</i>
141	The Year Book of Science	<i>Bonnev.</i>

LIBRARY REGULATIONS.

1. Books shall be issued to Members by the Librarian, General Secretary, or Assistant Secretary only.
2. No Member shall have more than two Books at any one time.
3. Any Book may be retained for one month from date of issue, provided no other Member has applied for it in the meantime, in which case it must be returned within 14 days of date of issue, or on demand, as the case may be.
4. On returning a Book, a member may renew it for a further period of one month should no other application be made for it.
5. All books required for Sectional Meetings must be applied for beforehand in the usual way by the Secretary of the Section, who will be held responsible for their safe custody and return.
6. All Books must be returned to the Library by September 1st in each year, and will not be re-issued until October 1st.
7. The Officer who issues or receives a book shall make an entry of the same in the book provided for that purpose, and initial it.
8. Members will be held responsible for Books issued to them, and will be required to replace all Books lost or damaged while in their custody.

PERFECT, BURTON.—33150.

