

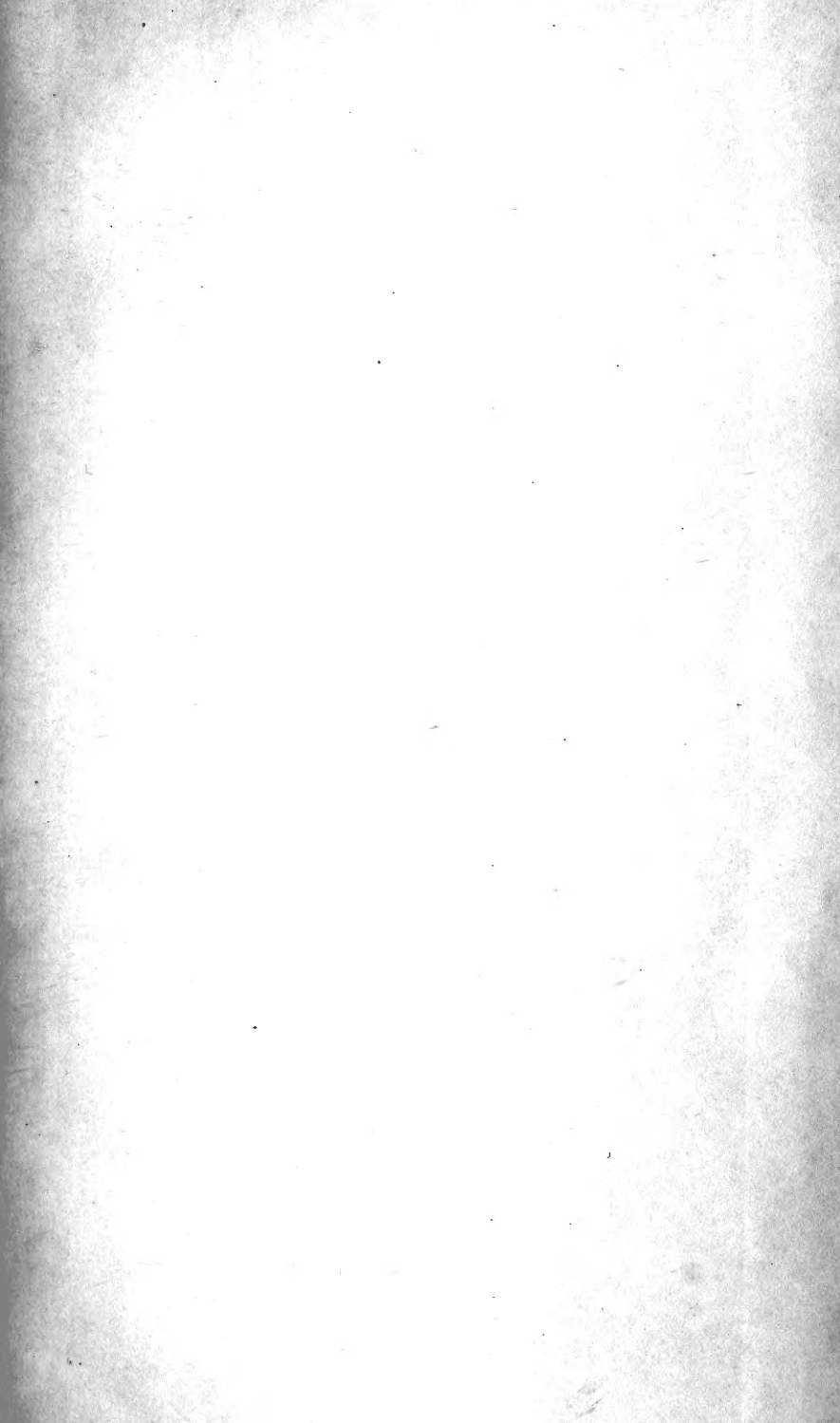
S. 22a. A-B.

BURNLEY LITERARY AND  
PHILOSOPHICAL SOCIETY.

Annual Report, &c.

1895-1901.





S. 22<sup>a</sup> A-B,

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# The Burnley Literary and Philosophical Society.

President . . . . . Mr. S. HOLDEN.

Vice-Presidents:

Dr. MACKENZIE.  
Dr. HARWOOD  
Rev. J. S. DOXEY.

Councillor BEECHAM  
Councillor WHITEHEAD.  
Councillor EMMOTT.

Councillor METCALFE.  
Councillor HEATON.  
Mr. A. W. WILMORE, F.G.S.

Mr. J. W. KNEESHAW.  
Mr. F. C. LONG.  
Mr. L. HEAP. Mr. T. BOOTH.



Scar House,  
Church Street, Burnley.

Dear Sir or Madam,

This Society having decided to hold a **Bazaar and Exhibition** early next year, the Committee beg to take the opportunity to respectfully solicit your sympathy and support. The object of the Bazaar, and of this appeal, is to raise funds for the discharge of the debt now resting upon the Society and to further enable the Committee more efficiently to carry on the work in which they are engaged.

The Committee do not deem it necessary to apologise for having incurred a debt during the eight years of the Society's existence, because they feel assured that this debt has been amply justified by the work the members have been enabled to accomplish. Some idea of the work referred to may be gathered from the particulars given on pages 2 and 3 of this Circular.

It may not be out of place to state that against the debt owing by the Society, there is more than a counterbalancing asset in the belongings of the Society, consisting of Furniture, Manuscripts, Books, Pictures, Fossils, Land and Fresh-water Shells, etc., together with a valuable collection of Egyptian Antiquities, dating from 3,000 B.C. to the Greek period.

The Society has for its aim the mental and moral advancement of its members, and the Committee claim that in seeking to foster a spirit of enquiry and an increase of mental activity, they are working in harmony with the educational needs of the nation, and they believe that it is in the desire for truth and the increase of true knowledge that they have the best guarantee for the permanent well-being of the community.

On these grounds, and with an earnest desire to considerably extend the usefulness of the Society, they venture to send out this appeal, and trust that the good work done by the Society may commend itself to you.

Any help which you can give, either in goods or subscriptions to the Bazaar funds, will be gratefully accepted, as also will the loan or gift of exhibits of an interesting description for use at the Bazaar. Cheques or Postal Orders to be made payable to **Mr. S. Holden**, Bazaar Treasurer, and addressed to Scar House, Burnley.

Specially appointed Members will wait upon you in due course.

Signed on behalf of the Committee,

S. HOLDEN, President.  
J. DEAN, Hon. Treasurer.

J. ALLEN, Hon. Secretary.  
R. RADCLIFFE, Hon. Financial Sec.

# Burnley Literary and Philosophical Society.



**T**HE Society was founded in the year 1893, the objects of the founders being stated in No. 2 of its Registered Rules as follow :—“ The objects of the Society shall be to meet at stated times for the discussion of Literary, Scientific, Antiquarian or Artistic subjects and to promote the study of the same. In all cases preference shall be given to the local bearings of these subjects. The Committee shall have power to accept the help of others than Members, but no one shall be allowed to introduce party politics or religious controversies. The Committee shall also have power to accept gifts on behalf of the Society and to make arrangements for visits to places of interest.”

In the first Annual Report there occurs the following passage :—

“ The Society has been the means of bringing together a number of men from all parts of the town who are interested in Botany, in Geology, in Conchology, in Zoology, and in many other branches of Natural History, as well as others who are interested in Literature and Archeological studies.”

In the second year of the Society's work there were 50 Members, and that number has now risen to 140.

From October to April of each year since the institution of the Society weekly meetings have been held, and in that period over 250 Papers and Lectures have been given before the Members. During the same period the Members of the Society have rendered much assistance to the various young men's Societies and Associations in Burnley and District by giving Papers on Scientific and Literary subjects. The Society has steadily kept before itself the duty of developing intercourse between the various Societies in the town, and in furtherance of this view has striven to provide Lectures or readers of Papers for the various Schools whenever appealed to. In the same way much has been done to bring some of the Natural History Societies in our district in touch with one another, and with several of them joint rambles and exchange of Lectures have annually taken place.

In 1898 the Society had the honour of being invited to take part in the movement which resulted in the holding of the International Congress of Zoology in England for the first time, a Congress which brought together from all parts of the world a large number of men who are distinguished for their knowledge and investigations in Biological Science.

The Members of the Society have done considerable work which yet remains to be presented to the public. In the domain of Natural History, specimens of all our land and freshwater shells have been collected, and a list has been published. In addition to the shells, a list of moths and butterflies to be found in our district is to be published shortly, as is also a list of birds—both native and migratory. A Flora of Burnley has also been compiled, and this, too, it is intended to publish early in 1902. Other branches of Natural History are also receiving attention, the result of which it is hoped will be a fairly complete guide for the ever-increasing number of students in our midst as well as a full and accurate record of each department of our local Natural History. In this connection it may be noted that one of the Members has recently contributed a series of Papers to the columns of the *Burnley Express* (one of our local journals) dealing with the Geology of the Burnley Basin. It is intended to issue these in book form at an early date, as it is felt by local Geologists that something is needed which shall serve to meet the requirements of Burnley Geologists in the same way that “*Bolton's Geology of Rossendale*” does—a work which was also written by a Member of this Society.

In speaking to the Members of the Society a short time ago one of the Vice-Presidents made reference to Members' work in the following terms :—

"The amount of Literary matter contributed to the Press by Members of the Society no man can number, probably at least 200 Articles per annum being contributed by those who claim to be non-professional. Much of this is of a scientific character and not included in that lighter literature of which I have been speaking."

It may be pointed out here that since the founding of the Society its Members have—in Burnley and elsewhere—published no fewer than 150 books and pamphlets. These are in all departments of Literature, including History, Poetry, Antiquities, Fiction, as well as works dealing with Science and Education—a list which is too long to append here.

By Rule III. it is enacted that "No one shall be elected Honorary Member of the Society who has not made some contribution to Literature, Science or Art."

Since 1898 the Society has elected 19 Honorary Members, and in each case the Honorary Member elected has either published one or more works in some department of Literature, or has made a fresh contribution to our Scientific knowledge, or has discovered some new application of those forces applied to our industries. In this respect then the Society may claim to have paid honour to whom honour is due.

In 1897 the Registrar-General of England and Wales granted a Certificate of Registration to the Society under the Act 6 and 7 Vict., and this is numbered 690 on the list.

During the existence of the Society a large number of gifts has been made to augment its collection by Members and friends, and one of the objects of the proposed Bazaar is to enable the Committee to provide suitable cases for the display and preservation of these gifts. It is also sought to provide cases of objects for illustrating Lectures in Schools and other places. In some instances these cases would be given, and in others lent free. The Committee also feel that a beginning should be made towards the formation of a Fund to enable them to obtain permanent premises, and one result of the Bazaar, it is hoped, will be to allow the Committee to begin this most desirable movement.

No one acquainted with the trend of modern education will deny the vast possibilities for usefulness which now lie—and in the future increasingly so—before such bodies as the Literary and Philosophical Society, and it is with the hope and intention to avail itself of some of these possibilities of usefulness that the Society has undertaken this Bazaar, and it is on this ground that it appeals for your help and support.

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The following are also Officers of the Society :—

*Committee*—J. THORNTON, W. STANWORTH, H. CHARLES, J. W. EASTWOOD, A. HARTLEY, J. BALDWIN,  
A. HOLDEN, J. VANN.

*Finance Committee*—R. RADCLIFFE, E. SNOWDEN, J. W. EASTWOOD, F. BUTTERFIELD.



Extract from "Burnley in the Nineteenth Century," by J. W. Kneeshaw.

[By kind permission of the "Express" Printing Co., Bull Street, Burnley, to whom the Society is also indebted for the use of the Block.]



On July 12th, 1893, at a meeting of gentlemen interested in local literature and science, it was decided to found a new Society under the title of the Literary and Philosophical Society. Mr. J. Allen was appointed secretary, and rules were submitted on July 19th. Mr. H. Sutter was appointed president, and the inaugural meeting was held on September 28th, 1893, in Thornton's Coffee House, when an exhibition of scientific apparatus and objects of local interest was held. Mr. J. W. Kneeshaw, one of the Vice-Presidents, being in the chair. For a short time subsequently the meetings were held at Berry's Temperance Hotel, but in October, 1894, a room at Scar Top was secured and furnished. In December, 1895, further extension was deemed advisable, and Scar House, a large and commodious building, was adapted for the use of the Society, and a small lecture hall and a museum was established. At present there are about 130 members. A monthly journal has been issued since December, 1895. During the short time of its existence good work has been done. The conchology of the Burnley Valley, its flora, and its geology have been well worked by Mr. F. C. Long, Mr. L. Heap, and Mr. A. Wilmore, F.G.S., respectively. The Society has in its possession many interesting and valuable articles, including original sketches by P. G. Hamerton, collections of shells, geological specimens, and microscopic slides, in addition to many local pictures. In the year 1897 the Society was registered under the Friendly Societies Act.



SCAR HOUSE.

Scar House was built by Lawrence Hitchon about the year 1800. The Hitchon family settled in this district at a very early date. The family held considerable property, and in an old plan of the seats of St. Peter's Church, Burnley, A.D. 1634, a John Hitchon was one of the seat holders. This residence was probably named Scar House because it was built on the edge of a precipitous scar on the banks of the river Brun.



3<sup>rd</sup>  
—

Bunley Literary & Philosophical  
Society

3<sup>rd</sup> Annual Report—  
1895



# BURNLEY LITERARY AND PHILOSOPHICAL SOCIETY.

## THIRD ANNUAL MEETING.

On Wednesday night the annual meeting of the members was held in the Society's room, Mr. W. Smithson in the chair.

The yearly report read by the general secretary (Mr. Allen) showed that during the past summer members had visited the following places:—Runclehurst Wood, Crawshaw Hall grounds (by permission of Lord Crawshaw), Owens College, Bacup Natural History Society's room, on which occasion Alderman Shepherd, Mayor of Bacup, provided tea for the members. An evening visit was also paid to the Burnley Electric Lighting station, when the party was shown over the works by Mr. F. Thursfield, B.A., A.M.I.C.E., to whom the Society's thanks are due for making the visit one of surpassing interest. During the winter session 23 papers have been read—17 by members and 5 by non-members—and the thanks of the Society are due to the following gentlemen for their contributions to the syllabus: Mr. G. B. Rawcliffe, Mr. Beaumont (Rochdale), Mr. A. R. Pickles, president of the Mid-Lancashire Union of Teachers: Mr. F. J. Grant, J.P., and Mr. J. Langfield Ward, M.A. Members' papers of special local value were those of Mr. A. Wilmore, F. G. S., on "The glacial epoch in Burnley and district," "The Burnley coal-field," by Mr. J. W. Eastwood; "The natural history of a local hedgebank," (Ightenhill-lane) Mr. F. C. Long, and "Local glimpses," by Mr. Henry Houlding. In addition there have been two concerts and a members' tea, making in all 25 indoor meetings. The average attendance of members at the papers, for the first year was 26, the second year 30, and for the past year 37. At the end of the first year there were 51 members, at the end of the second year 71, and the number of members is now 98—with the ten hon. members making a total membership of 108.

During the past session the art section distinguished itself by bringing together a collection of over 40 oil and water-colour paintings, and these, together with a number of drawings and photographs, was the work of members. All these, together, with sketches possessed by the Society of the late Philip Gilbert Hammerton, were used to illustrate the lecture on "Pictures," by Mr. J. R. Lee. This good example the committee hope will be followed by some of the other sections, and that during the next season, some few of them, at least, will try to fill up a night each with little exhibitions illustrating their special work.

During the year many gifts have been made to the Society, and many more promised. Individual mention of these cannot be made here, but it is

## *Report continued.*

intended to publish, at a later date, a complete list of gifts and their donors.

In 1893 the committee noticed 116 contributions to the press, in 1894, 150. In the past year the number has been increased to over 200—these consisting of poems, stories, articles on conchology, entomology, geology, and other branches of science, together with accounts of rambles and articles on local history and antiquities. The committee note with pleasure that one of the members, Mr. J. Holmes, has issued a second work on "Weaving," and that another member Mr. W. Stanworth, has invented a useful appliance for beaming frames, and that it has been bought by Messrs. Howard and Bullough, of Accrington. This short review would be incomplete without a reference to the volume by Henry Houlding, "Pendle Legends and other Poems." This has now been in the hands of reviewers and readers for some time, and if any justification were needed for the Society's action in pushing on the publication of these poems, it may be found in the universally favourable reception they have met with from reviewer and reader alike—not only in Burnley and from Burnley men, but from strangers, and in distant places. The whole of the work in connection with the publication is not yet finished but the committee hope to have it completed in the course of a week or two.

There are two aspects of this year's report to which the attention of members is invited. The first is the increase in the membership, and the second is the fact that the Society is now possessed of certain properties, and that these are certain to increase both in extent and value in the near future. These two facts force upon the Society's consideration a very important question—and that is the need that has arisen for the possession of a room or rooms that shall be large enough to allow of the display of its possessions to the best possible advantage and rooms that shall be worthy the position the Society has now attained.

The balance sheet was read by the financial secretary, Mr. R. Radcliffe, and showed receipts for the year to be £54. Mr. Henry Nutter was re-elected president and the following vice-presidents: Messrs. Tattersall Wilkinson, J. W. Kueeshaw, T. Booth, S. Holden, Rev. J. S. Duxey, J. Mackenzie. M. D., P. J. Roberts, F.G.S., A. Wilmore, F.G.S., J. Bradshaw, L. Heap and F. C. Long. Mr. W. Smithson was re-elected treasurer, Mr. R. Radcliffe, financial secretary, Mr. S. Holden, auditor; John Allen, general secretary, and the following are the committee: Messrs. J. W. Eastwood, J. Gordon, S. Austerberry, A. Wright, John Dean, J. Crooke, J. U. Smith and W. Middletoo.

PRESENTED

17 FEB. 1902



6<sup>th</sup>  
—

Bursley Literary and  
Philosophical Society

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6<sup>th</sup> Annual Report.

1899



BURNLEY

# Literary and Philosophical

## SOCIETY.

### SIXTH ANNUAL MEETING.

The annual meeting of this Society was held on Wednesday night, March 29th, in the Society's rooms at Scar House. Mr. S. Holden presided, and there was a good attendance of members. The report for the year was read by Mr. John Allen, the general secretary, and was as follows:—

#### ANNUAL REPORT.

The sixth annual report which the committee have now the pleasure of submitting to the members is, on the whole, somewhat uneventful. The 25 meetings which were arranged for the winter session have been held, and at these the average attendance has been 36. This is not a large attendance when we look at the fact that we have now a membership of 154. But on the other hand it has to be remembered that our members are widely scattered, some living in Colne, Nelson, Brierfield, in Bacup, Oldham, Wigan, Manchester, Blackburn and Blackpool, as well as in more distant places still.

The membership of the society now stands as follows: Honorary members 14, associates 6, ordinary members 134, or an increase of 17 on last year. Your committee would like to see the number of ordinary members increased to 300, for then the income would enable the society to undertake much pressing work which now, for want of funds, has to be relegated to the future.

During the past year Mr. James Holmes, of Burnley, author of "Cotton weaving calculations," "Cotton cloth designing" and other works has been elected a honorary member of the society, his contributions to technical literature justly entitling him to the recognition and appreciation of the Society, of which he was an ordinary member.

The committee also submits for honorary membership the names of Mr. Wynford Brierley and of Mr. Frank Slater. Mr. Brierley has invented and patented what the committee believe to be a most important and valuable appliance for preventing accidents on railways. The invention has already been successfully submitted to severe tests, and has been favourably reported upon by an inspector of the Board of Trade. Some large framed photographs have been presented to the society by Mr. Brierley, and those give some idea of what the invention is intended to do.

Mr. Frank Slater, our second new honorary member, is well known as the author of "Bonnie Colne," and many other musical compositions, as well as nine or ten dramas of local, and more than local interest, including "Monkroyd," "Walverden," and "Wycollar Dean."

And your committee note with pleasure that Mr. John Dean—another member of your society—has patented a smoke consumer and coal economiser, of which many practical men speak in the highest terms.

# Burnley Literary and Philosophical Society

(REGISTERED.)

HON. SECRETARY:  
JOHN ALLEN,  
SCAR HOUSE.

Feb. 15<sup>th</sup>

1902

B. B. Woodward Esq.  
Berkley Museum of  
Natural History

Sir

I am instructed by my Com<sup>tee</sup> to say that we feel honoured by your request for such lists of Fauna & Flora as we may publish. Unfortunately we are not wealthy enough to publish Transactions and we are therefore driven to publish such lists as the enclosed. I may say that we should have forwarded copies long ago but we could not conceive that they would be of service to you.

The Flora & list of birds are ready for publication as is also a little work on the Geology of our Valley. These we shall be happy to forward in due course. We thank you most sincerely for your suggestion re. application for your tunnels & will apply at once. Any information about our district we shall be most happy to supply at all times.

I am  
yours respectfully  
John Allen

S. 22<sup>d</sup> C.

1871

1871



### Report continued.

It is with satisfaction too that the committee note that members are taking a fair share of the work of assisting other societies by giving lectures and papers. During the past year over 80 papers had been so given, and the committee trust that this high average will be maintained.

With regard to the literary contributions of the members, your committee cannot do better than quote the President, who, in a paper read here a short time ago, said :

"The amount of literary matter contributed to the press by members of our Society no man can number. Probably at least 200 articles per annum were contributed by those who claim to be non-professional. Much of this is of a scientific character, and not included in that lighter literature of which I have been speaking."

During the year too, Messrs Partridge, of London, have issued a novel "Norcliffe Court" and which was written by this year's president, and your committee have reason to hope that this will not be the last so issued by members of this society.

During the winter the microscopic section has also developed along useful lines, and it is hoped that during the summer, the members of it will be able to obtain certain scientific apparatus which will enable it to extend its operations considerably.

Many gifts have also been made to the society during the year, and to all who have so contributed the thanks of the society are due.

The problem of drawing closer the ties between the various Natural History Societies of our district still remains unsolved. With a view of getting into closer touch with some of these societies it is proposed that those members—of whom there are many—who are cyclists, should form themselves into a section for visiting outside societies on those Saturdays for which no ramble is fixed. Already several names have been received, and it is hoped that others will also join.

In conclusion, the committee beg to thank all those kind friends who have assisted in making the meetings, the parties, and the entertainments successful. Whilst recognising that the Society demands sacrifices of both time and money from the members, the committee feel that the end aimed at is worth both—for the objects of the society are to help to lift the mind above "chill cares and sordid self" and to make us see that there are realms in the world of literature, of science and of art that are worth exploring—for therein may be found such pleasures as wealth alone may not purchase and which poverty cannot take away.

#### ELECTION OF OFFICERS.

The committee's report was unanimously adopted, as was also the financial report, which had been prepared, and was read by Mr. Robt. Radcliffe, financial secretary. The vice-presidents were all re-elected, and the following were elected the committee for the coming year:—Messrs. A. Holden, J. Baldwin, W. Ingham, A. Wright, J. Oldham, J. Thornton, J. Heskeith, and M. Sharp. Mr. John Dean was elected treasurer; Mr. S. Holden, auditor; Mr. R. Radcliffe, financial secretary; and Mr. John Allen, general secretary.

PRESENTED  
17 FEB. 1902



JOURNAL OF THE BURNLEY

Literary & Philosophical Society.

President: HENRY NUTTER.

Vice-Presidents: TATTERSALL WILKINSON. J. W. KNEESHAW. T. BOOTH. S. HOLDEN.  
 REV. J. S. DOXEY. J. MACKENZIE, M.D. P. J. ROBERTS, F.G.S. A. WILMORE, F.G.S.  
 F. C. LONG. L. HEAP.

Council: J. W. EASTWOOD. J. GORDON. S. AUSTERBERRY. J. CROOK.  
 W. MIDDLETON. J. DEAN. J. U. SMITH. I. WRIGHT.

Treasurer: W. SMITHSON. Financial Secretary: ROBT. RADCLIFFE.

Auditor: S. HOLDEN. General Secretary: JOHN ALLEN.



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# FROM THE COMMITTEE ROOM.

FELLOW MEMBERS,—

Our third Annual Meeting has now been held and with this issue of our Journal each Member will receive a copy of the Annual Report. The meeting was presided over by Mr. W. Smithson, and though the meeting itself was not as largely attended as it might have been, those members who did put in an appearance entered most heartily into the business of the evening. After the Report and Balance Sheet had been read and adopted, the Election of Officers took place with the following results.

Mr. Henry Nutter was re-elected President, and the following were elected Vice-Presidents : Tattersall Wilkinson, J. W. Kneeshaw, T. Booth, S. Holden, F. C. Long, Rev. J. S. Doxey, J. Mackenzie, M.D., P. J. Roberts, F.G.S., A. Wilmore, F.G.S., L. Heap, W. Smithson was re-elected Treasurer ; R. Radcliffe, Financial Secretary ; S. Holden, Auditor ; John Allen, General Secretary. The following constitute the Council for the coming year : J. W. Eastwood, J. Gordon, S. Austerberry, J. Crooke, A. Wright, W. Middleton, J. U. Smith, and John Dean.

Herewith the Committee present the Balance Sheet read by Mr. R. Radcliffe, Financial Secretary:—

## BALANCE SHEET FROM APRIL 20, 1895, TO APRIL 14th, 1896.

	£	s.	d.		£	s.	d.
To Tea Meeting ... ..	1	17	0	By Rent of Room ... ..	7	16	0
„ Refreshments ... ..	3	10	0	„ Rates ... ..	2	3	3
„ Subscriptions ... ..	20	5	0	„ Gas ... ..	10	3	
					2	13	6
Donations A Friend ...	1	0	0	Tradesmen's Accounts—			
„ T. Booth ... ..	10	0		J. Gordon ... ..	17	7	
„ J. Allen ... ..	13	0		J. Vann ... ..	8	0	
„ S. Austerberry ...	10	0		J. Grant ... ..	12	6	
„ F. C. Long ... ..	6	6		W. Smithson ... ..	1	0	8
„ L. Heap ... ..	2	0		J. Holt ... ..	1	6	10
„ J. Crook ... ..	10	0		J. Holt ... ..	2	2	0
„ W. Stanworth ...	10	0		Burnley Carriage Co. ...	3	6	6
„ Coun. Beecham ...	5	6		Burnley Carriage Co. ...	1	11	0
„ W. Smithson ...	15	8		J. Smith ... ..	11	8	
			5 2 8	W. Pascoe ... ..	10	6	
To Balance, per J. Allen ... ..	2	19	2	W. L. Ham ... ..	19	0	
„ Fares to Crawshaw Hall ...	1	2	6	W. L. Ham ... ..	15	0	
„ Fares to Bacup ... ..	3	11	4	J. Dixon ... ..	3	9	
„ Bank .. ... ..	3	0	0	J. Baldwin ... ..	1	5	0
„ Treasurer .. ... ..	1	1	4	Burnley Gazette ... ..	1	16	6
„ Advertisements ... ..	2	2	7				
„ Sundry Collections ... ..	1	8	2				
„ Concerts ... ..	5	2	6	By Treasurer ... ..	7	10	0
„ Teaparty ... ..	3	16	0	„ Treasurer ... ..	10	0	
				„ Bank ... ..	3	0	0
				„ Expenses in connection with			
				Houlding's Poems ... ..	1	9	6
				„ Expenses of Lecturers, Post-			
				ages, Stationery, etc. ... ..	9	12	11
				„ Balance ... ..	4	19	10
			£54 18 3				£54 18 3

By Rule 7 the Annual Meeting fixes the Subscription to be paid for the coming year. This year the members decided that the Subscription shall be 5/-. The Council have reason to believe that this sum will meet with general approval, as it has several times been suggested by members. The increase of 1/- per annum will certainly relieve the strain occasionally felt by the Financial Secretary to meet the ordinary expenditure of the year.

An alteration of Rule 3 was submitted and adopted, and it now reads as follows :

“The Society shall consist of Ordinary Members, Honorary Members, and Associates. Honorary Members shall be elected only at the Annual, or at a Special Meeting, and on the nomination of the Committee of six members. No one shall, however, be elected an Honorary Member who has not made some contribution to Literature, Science, or Art.”

“ Associates may be elected for services rendered to the Society—financial or otherwise. They shall be elected in the same manner as Honorary Members, but the names of all Associates shall be submitted to each Annual Meeting for re-election. Both Honorary Members and Associates shall be entitled to all the privileges of Membership, but shall not be entitled to vote on any matter affecting the Government of the Society.”

The Annual Tea held on Wednesday night, April 8th, was most successful, over 70 members and friends being present, and our room was uncomfortably filled. Mr. Tattersall Wilkinson presided over the meeting and concert which was afterwards held, and to all the kind friends who assisted on the occasion the thanks of the members are due.

Our Syllabus during the past Winter underwent some slight changes, and the Committee have been asked to re-print it in the Journal. It is therefore inserted with the alterations that took place.

#### SYLLABUS, 1895-6.

1895.

Oct. 9.—OPENING NIGHT.

„ 16.—“ The Nebular Hypothesis.” THE PRESIDENT.

„ 23.—“ The Smoke Question in Burnley.” J. B. MASSEY, Sanitary Inspector.

„ 30.—“ Hamlet, Prince of Denmark.” JAMES BERRY.

Nov. 6.—“ British Forest Trees.” G. B. RAWCLIFFE.

„ 12 (Tues.)—“ The Borderland of Animal Life.” G. R. BEAUMONT, Rochdale.

„ 20.—“ Old Burnley.” Illustrated by the Lantern. J. CHEW.

„ 27.—CONCERT. W. MIDDLETON.

Dec. 4.—“ Immunity from Disease.” JAMES MACKENZIE, M.D.

„ 11.—“ A Night with Sam. Bamford.” WYNFORD BRIERLEY.

„ 18.—“ Evolution.” SAM. HOLDEN.

1896.

Jan. 1.—“ The Weather.” Illustrated by weather charts, barometers old and new, etc. P. J. ROBERTS, F.G.S.

„ 8.—“ Lancashire Life in Fiction.” J. W. KNEESHAW.

„ 15.—“ A Peep into a Modern School.” A. R. PICKLES.

„ 22.—“ P. Gilbert Hamerton and Henry Houlding.” F. J. GRANT, J.P.

„ 29.—“ Light.” With Experiments. JAMES CROOK.

Feb. 5.—“ The Glacial Epoch in Burnley and District.” A. WILMORE, F.G.S.

„ 12.—“ The Drama in England before Shakespeare.” J. LANGFIELD WARD, M.A.

„ 19.—“ The uses and pleasures of Pictures.” A collection of oil and water colours exhibited. J. R. LEE.

„ 26.—“ The Natural History of a local Hedgebank.” F. C. LONG.

Mar. 4.—“ The Burnley Coal Field.” J. W. EASTWOOD.

„ 11.—“ Local Glimpses.” HENRY HOULDING.

„ 18.—“ Henry Russell as Song Writer.” A selection of Russell's songs given. COUN. RICHARD BEECHAM.

„ 25.—“ A Night with the Microscope.” L. HEAP.

April 1.—General Meeting, Report and Balance Sheet, Election of Officers, etc.

A Summer Syllabus has been drawn up and will be in the hands of members shortly. The first item is a ramble through Long Dick Wood to the site of Hapton Tower. This ramble will take place on Saturday next, May 16th. Members and friends proceed by train from Bank Top at 2-25, Barracks at 2-28, to Rosegrove, where the party will be met by a guide. Members who are at liberty are earnestly invited to attend.

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## FROM THE COUNCIL CHAMBER.

---

FELLOW MEMBERS,

On Saturday last, our first ramble took place to Hapton Tower. Arrangements had been made by Mr. R. Radcliffe for the party to proceed by way of Tower Clough. There was a good muster of members; the guide being Mr. Westall. Those members who were present will mark this ramble as one of the pleasantest we have had. A short report of it appears in the "*Express*" and "*Gazette*" of Wednesday, May 20th.

The Summer Syllabus, as at present arranged, is as follows, but is subject to alteration:—

Saturday, May 16th—Hapton Tower.

- „ June 6th—Pendle Forest. Train leaves Barracks for Nelson, 2-41; Bank Top, 2-44.
- „ June 20th—Moorhiles Clough. Meet at Room 2-30.
- „ July 4th—Blackburn Museum and Art Gallery. Particulars supplied later.
- „ July 25th—Holmes Chapel District. Joint Ramble with Bacup Natural History Society. Leader, Mr. George Scott, Bacup.
- „ August 1st—Old Iron Mine, Cliviger. Joint Ramble with Bacup Natural History Society. Leader, Mr. J. A. Lee, Bacup.

Your Council note with pleasure, that a Natural History Society has been formed in connection with the Mechanics' Institution. Mr. Ernest Evans has been elected President, and Mr. John Redman, Hon. Secretary. The Subscription has been fixed at 6d. per annum, and the Council is officially informed that the Society is open to all—members and non-members of the Mechanics' alike. An interesting syllabus of rambles has been drawn up, a list of which may be seen in the Society's room. Your Council wish every success to the new Society in its efforts to foster and encourage a knowledge and love of the animate and inanimate Nature around us.

A Communication has been received from Mr. Denison Roebuck, F.L.S., Hon. Secretary of The Yorkshire Naturalists' Union. The Union is holding its 123rd Meeting at Hellifield, from Whit-Saturday to Whit-Tuesday. Members of the Burnley Literary and Philosophical Society have been kindly invited to join the Union, and it is proposed that a small party shall do so on either Whit-Monday or Whit-Tuesday, as may be most convenient. Monday's route for the Geologists will be as follows:—Knowlmer, Dunmow, and perhaps Slaidburn, and the party will be under the guidance of Prof. Tiddeman, M.A., F.G.S. On Tuesday, the Geologists start from Whitewell for Slaidburn, and another party will start from Clitheroe Station at 9-10 to meet the one from Whitewell, returning to Clitheroe at 4-30. All particulars may be had from the General Secretary, who will be glad to arrange with members who are desirous of going on either of the days named. Of course there will be special cheap fares, and it is hoped that some few of the members will represent the Society on this occasion.

As the holiday season is fast approaching, the Council hope that members when away from home, will endeavour to secure objects of interest for the Society, as well as make observations which may be of use hereafter.

The Council will also be glad to hear from any member concerning any special subject or paper for the Winter Syllabus. Any communication to the Secretary will receive early attention.



The Council will meet on the third Wednesday in each month, and it invites communications from members on any subject directly or indirectly affecting the welfare of the Society.

The following have been elected members of the Society :—Mr. J. E. Davidson, 101, Reed Street, Burnley ; Mr. Harrison Charles, 2, Hallwell Street, Burnley.

At a recent meeting the following were elected Honorary Members of the Society, David Lawton, Greenfield, near Oldham, (Th' Owd Weighver of Saddleworth), author of "Warkday Rhymes for Warkday Folk," etc. ; C. Allen Clarke, Blackpool, author of "The Knobstick," "Voices, and other Poems," "Tales of a Deserted Village." Communications have been received from both these gentlemen acknowledging their election.

The *Manchester Guardian* recently said, "Mr. Clarke is one of the few living novelists whose intimacy with the (Lancashire) poor (and factory folks) strikes us as complete and genuine." Mr. Clarke is prominently connected with the new Lancashire paper "Teddy Ashton's Journal," which will first see the light on Friday next, May 22nd. The prospectus of the journal is a good one and the Council have pleasure in drawing the attention of members to this new venture in Lancashire literature.

The Council has pleasure in announcing the following gifts to the Society and begs to thank the donors.

Heron's Egg, Mr. WEST, Junr., Oxford Road, Burnley.

Small Case of Birds and Picture of Shakespeare's House, Mr. JAMES BERRY, Brookside, Bound Volume "South-West Lancashire," LUPTON BROS., Manchester Road.

2 Framed Portraits of Burnley Worthies, MR. COUNCILLOR BARRITT, Yorkshire Street.

Microscopic Slides (second lot), MR. LAW. HEAP, 110, New Hall Street.

Case containing a large number of Specimens of British and Foreign Woods, RICHARD DEAN & SONS, Timber Merchants, Burnley.

Flint Arrow-heads found in Ightenhill Park, MR. J. R. LEE.

The Council also beg to thank MR. JOHN DEAN for a donation of 10/- to the funds of the Society.

A communication having been received from Mr. C. M. Foden, J.P., Hon. Secretary of the Mechanics' Institution, with regard to a proposed portrait of Mr. Henry Houlding, a special meeting of the Council was held, and representatives were appointed to serve on the Committee. The portrait committee has since met, and it has been decided that the portrait shall be painted by Mr. Sydney Hodges, of London, many examples of whose work there are in the Town. The cost of the portrait is to be raised by public subscription. Already a most encouraging response has been made, and the members of the Literary and Philosophical Society are now invited to take part in the work of raising the funds. Subscriptions of any amount will be received by any member of the Council, and it is hoped that every member of the Society will avail himself of this opportunity of helping to obtain for the Town a permanent memorial of one of Burnley's most honoured sons.

Mr. Houlding, it will be remembered, is honorary member of the Mechanics' Institution, of the Literary and Scientific Club, and of the Literary and Philosophical Society, and the Committee which has the matter in hand is composed of members of these three bodies, and an invitation has also been extended to the Burnley Co-operative Society to take part in the work.

In conclusion, the Council requests members to preserve their copies of the Journal for future reference. A few of the earlier copies are still to be had by members desiring to complete their sets.

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## FROM THE COUNCIL CHAMBER.

To the Members and Friends of the Burnley Literary and Philosophical Society.—After much consideration the Committee beg to make an appeal to the members and friends of the Society on behalf of the funds, and in doing so would venture to point out that the time has now arrived when an effort should be made to clear off all the liabilities of the Society. The sum needed is about £120, and the raising of this sum would enable the Committee not only to place the Society on a sound financial basis, but also to classify, arrange and catalogue the collection which has been gathered together.

It will be remembered that the Society held its earlier meetings in Mr. Joseph Thornton's Restaurant, Bridge Street. Afterwards a few meetings were held in Mr. Berry's rooms, St. James's Row. Then a room was taken near Scar House, upon which a considerable amount was spent before a meeting could be held there. Even then it was not waterproof, and in little time was added to this disadvantage, an attack of dryrot, which affected the floor and other woodwork, and led to more expenditure. Finally Scar House itself was taken, and here again considerable expense was incurred in adapting it for the Society's meetings and in furnishing and making a rough and ready arrangement for the care and display of our geological and other specimens. In this direction much yet remains to be done, and the Committee feel that this work must be proceeded with in order that the collection may be made really useful to all members and friends who are interested in the scientific or historical aspects of our own district. The Committee therefore confidently appeal then to all members and friends to assist them in raising the necessary funds to place the society in such a position as will enable it to be really and constantly useful to all who are interested in literature or science—whether they be members or not.

Again it has to be remembered that the necessary ordinary yearly expenditure amounts to about £50, and this has to be raised before anything can be done towards the clearing off of those liabilities which were incurred by furnishing and alterations. This is not the place to speak of the generous help which the members have in the past extended towards the Society. That is a chapter in itself, and can be spoken of afterwards. At present there is pressing need to make a beginning towards raising this sum of £120. Some subscriptions have already been paid towards what is required, and the Committee will be glad to receive sums—however small—for the same object. Payment need not be made all at once or immediately. Promises to pay during the year 1900 will be most welcome, and in the meantime a collector has been appointed who will collect outstanding subscriptions and donations, or they may be paid to the Hon. Sec. at the rooms any evening. The collector for the Society is Mr. W. Evans, Outwood Grove, Todmorden Road.

Subscriptions towards fund of £120:—Joseph Thornton £4 5s.; John Allen £2 2s; William Aspinall 10/-; Lawrence Heap 10/-; Matthew Sharpe 10/-; J. W. Eastwood 10/-; Albert Holden 10/-; W. B. Potter 5/-; Peter Pollard 5/-; William Parker 5/-; J. C. Skipper 2/6; Philip Green 2/6; F. Butterfield 2/6.

**TEA-PARTY.**—On Saturday next Mr. John Dean will provide tea for members at 5 o'clock in the Society's rooms. Tickets 1/- each. Proceeds for the funds of the Society. Concert at 7-30.

The Committee and members heard with deep regret of the death of Mr. Stocks Austerberry, one of our earliest members, and one endeared to us by his talents and goodness. The Society was represented at the funeral by the Secretary and several members, and a wreath was also sent. The sympathy of all will be extended to Mrs. Austerberry and family in the loss which they have sustained, and in which we to a certain extent share.

Last Saturday, Messrs. Heap, C. R. Ritchings, S. Simpson, and H. Charles, of our own Society, and Messrs. Eastwood and Harper, of the Accrington Naturalists' Society, gave us an evening with the Microscope, which was much appreciated by those who attended. There is much room in Burnley for Microscopic work, and it is to be hoped that this branch of work will be continued by our members.

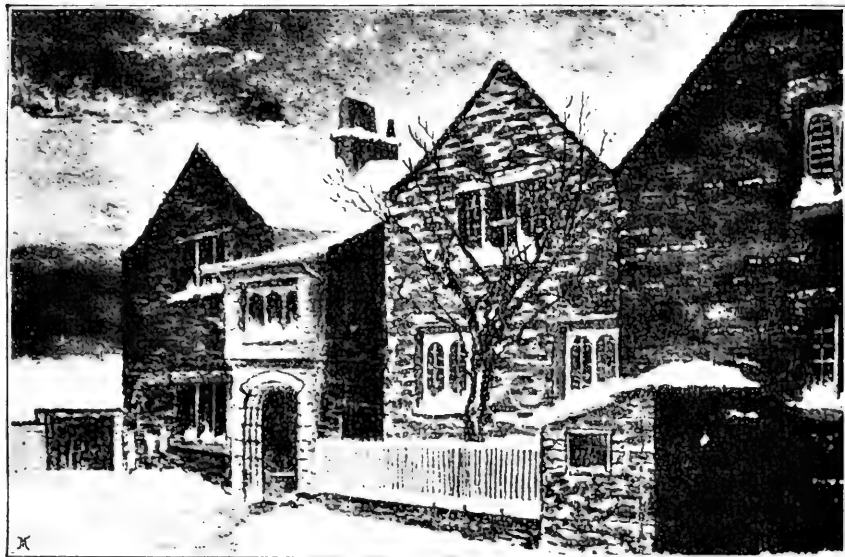
In future there will be a Meeting in the large room each Saturday evening; members are strongly invited to attend.

**WEDNESDAY, FEB. 7th.**—The Committee also beg to draw the Members' attention to the list of Lectures and Papers during February, the first of which will be by Mr. John Heaton, Member of the Burnley Board of Guardians. Subject—"Pauperism—past and present."



17 FEB. 1902

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## FROM THE COMMITTEE ROOM.

### FELLOW MEMBERS :—

The Committee would like to draw the special attention of all members to the meetings remaining to be held this year. It is most desirable that there should be a good attendance at these meetings as all are of such interest as to justify the Committee in once more asking members to keep them in mind.

This year's meetings are as follows :—

Wednesday, Nov. 28th, "Cromwell—The Greatest Englishman of His Time," Mr. Fred. H. Hill.

Saturday, Dec 1st, "The Water Supply of the Burnley Basin" (being an application of Geology and Meteorology to Economics), Mr. A Wilmore, F.G.S.

Wednesday, Dec. 5th, "Old English Ballads" (with Illustrations), Mr. Robert Watson (Organist of Trinity Church).

Wednesday, Dec. 12th, "The Most Important Fact in Nature," Mr. J. W. Bamber (Accrington Naturalists' Society).

Wednesday, Dec. 19th, Concert.

The meetings already held this season have been of a most satisfactory nature. Certainly the attendance at some of them might have been better, but apart from this the papers already read have been notable either for the excellent manner in which they have been given and illustrated, or for the really good discussions to which they have given rise. The Committee also take this opportunity of saying that ladies are always welcome at the meetings and that members can bring friends either to the meetings or to the rooms whenever open.

### THE PROPOSED BAZAAR.

For some time back it has been felt that something definite should be done in order to raise funds for (1) Paying off all accounts against the Society, (2) For making certain alterations for the comfort of members and for the better arrangement, classification and display of those Antiquities, Natural History specimens and other objects of interest which the Society possesses, (3) For the provision of a fund which would enable the members to take steps whenever they thought desirable, to obtain permanent premises for the Society. With this object in view, the President provided a tea on Oct. 20th., at which 62 members and friends were present. The proceeds of this have been handed over as the beginning of the Bazaar fund, and on the same date a number of ladies undertook to begin a working party for the purpose of providing made-up articles for sale at the bazaar. For those ladies who are at liberty, a meeting will be held each Thursday afternoon at 3 o'clock in Scar House, and for those who can only attend in the evenings there will be a working party at 7-30 or earlier on each Thursday night. The Committee trust that a large number of ladies will give in their names in addition to those who have already done so, as workers for an object which will not only put the Society on a sound footing, but which will enable it to do more useful work than it has hitherto been able to do, and to become a permanent factor in the intellectual life of the town.

### NEW MEMBERS.

The following gentlemen have been elected members of the Society :—

Mr. Albert Hanley, Habergham. Mr. Whitehead, Padiham Road, Burnley.

Mr. Williams, 114, Abel Street, Burnley. Mr. L. Halstead, Worsthorne.

Mr. J. W. Houlden, Cemetery House. Mr. E. Williams, Burnley.

### SPECIAL MEETING.

The Committee beg to give notice that the meeting fixed for Dec. 12th shall be declared **Special**, in order that the names of the following gentlemen may be submitted for election as Honorary Members of the Society.

John Garstang, B.A. (Egyptian Research Account).

Stephen Clarke (Clitheroe) Author of "Clitheroe in its Coaching Days," and "Clitheroe in its Railway Days."



Copies of Mr. Clarke's works have been received by the Society from the Author, and the valuable collection of Egyptian Antiquities from Abydos in Upper Egypt, and presented to the Society by the discoverer, Mr. Garstang, are now exhibited in four new cases specially made for them. These cases will cost between five and six pounds and will be paid for in the course of a few weeks. The Committee will be glad to receive contributions—however small—towards the cost of those cases, as it is felt that they should be paid for as early as possible.

### SUBSCRIPTIONS.

All subscriptions for the year are now due and the Committee trust that they may be paid as soon as possible—either to the General Secretary or to the Hon. Collector, Mr. W. Evans, Outwood Grove, Todmorden Road, Burnley.

### GIFTS.

In addition to the Collection of Egyptian Antiquities of date 2,500 B.C. to 300 B.C. presented to the Society by Mr. Garstang, the following gifts have been made and the Committee beg to thank the donors in the name of the members.

	NAME.	GIFT.
1	Mr. F. C. Long	4 Cases of Marine Shells.
2	„ W. Middleton	Large piece of Flint.
3	Mr. & Mrs. Stuttard	Lizard, Snakes, etc.
4	Mr. J. R. Lee	Pieces of Worked Flint found in Ightenhill.
5	„ W. Waddington	Letters of Lancashire Authors.
6	„ John Radcliffe	Framed Chess Board and Copy of Josephus.
7	„ Robert Radcliffe	Fine Specimen of Brain Coral.
8	„ Abraham Stansfield	Letter of G. Linneaus Banks.
9	„ C. R. Ritchings	2 Pictures in Glass of 18th Century.
10	„ Joseph Gordon	Portrait of Dante.
11	„ John Cherry, Gunnorside Lodge, Swaledale.	Flint Arrowhead.
12	„ J. H. Alderson	Flint Arrowhead.
13	„ J. Hargreaves	Long-eared Bat caught in Pendle Forest.

### MICROSCOPIC WORK IN BURNLEY.

Another matter which has been receiving the attention of the Committee lately is that of Microscopy, and the work that our Microscopic Section can do. Probably there are not less than a dozen microscopes in the hands of members, yet the opportunities for meeting of those who have instruments are very few. And how many others do members know who are not of the Society, and who are—or were—interested in the use of the microscope, but who for want of intercourse with fellow-workers have allowed that interest to flag. As is well known to members, our Microscopic Section has had considerable experience in the manipulation of the microscope, and in staining and mounting objects for examination, it may be safely said that in this department of work the members of the Microscopic Section have little reason to fear comparison with anyone—either professional or amateur. It is proposed then that the skill and experience of these members of the Society shall be made use of for the benefit of those workers—either inside or outside the Society—who desire to cultivate a fuller knowledge of microscopy. With this object in view, Messrs. L. Heap, C. R. Ritchings and S. Simpson have decided to meet in the Society's large room at 3-30 on the first Saturday in every month—and oftener if found desirable—and they invite members to attend. They also extend an invitation to all who are interested in the use of the microscope—whether they be members of the Society or not. To members and non-members alike who desire it, will lessons be given in the preparation of objects, and in the study of the low forms of life around us. Short papers will be occasionally given and some of these will be illustrated by the lantern. But above all, the members of this section ask to be allowed to be helpful, and other members who know of any solitary microscopic workers would do well if they could induce them to meet our microscopists in the Society's rooms on the dates named. And this they can do without becoming members of the Society—a fact which should be kept in mind by those who may be acquainted with some who might accept an invitation to meet in our rooms if it were clearly understood that they were at liberty to become members of the Society or not just as they choose, and that availing themselves of the Microscopic Section's offer of help will not involve anyone in any obligation whatever.

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# The Land and Fresh Water Shells of Burnley District.

List collected and compiled by F. C. Long, member of the Society.

The Committee have much pleasure in submitting to the members the following list of Land and Freshwater Shells, of the Burnley district. It has been compiled by Mr. F. C. Long, of this Society, and is the result of many years research in our district, and a vast amount of work. Some time ago, Mr. Long presented two cases to the Society, containing all the specimens named in the following valuable list, and which has not before been printed.

In the next number of the Journal the Committee intend to publish the list of Moths and Butterflies to be found in our district. This has been carefully compiled by Mr. W. G. Clutton, in conjunction with Mr. Albert Wright, member of the Society.

The names used in this list are in accordance with the list issued by "The Conchological Society of Great Britain and Ireland," New Edition, 1892, compiled by W. Nelson, W. Denison Roebuck, F.L.S., and J. W. Taylor, F.L.S.

The species named in this list have all been found within a ten-miles radius from the Burnley Town Hall, many of them (more especially the freshwater species), within the limits of the borough boundary.

Many of the local ponds are being gradually destroyed by building operations, and at no distant date, it is to be feared, many interesting species will have disappeared from this immediate locality.

The Land Shells are well represented, especially the genus "Hyalinia," and the "Helices" are very fine in colour and texture.

The total number of British species is 130. Number found in this locality, 88.

Of band variations of "Helix nemoralis" and "hortensis," the commonest are (125) (45), (12)345, (12345), and 125(45): that of "nemoralis" 00300 is fairly common, though no example of "hortensis" with this band formula has been found locally. In some districts—notably near Bristol—it is a not unusual form.

*Arion ater* (L.). Very common in woods and fields.

*Arion hortensis* (Fer.). Common in gardens.

*Limax maximus* (L.). Common, woods and lanes.

*Limax flavus* (L.). Occasionally found in woods.

*Limax marginatus* (Mull.). Woods and damp places.

*Agriolimax agrestis* (L.). Abundant everywhere.

*Vitriina pellucida* (Mull.). Common in hedgerows.

*Hyalinia draparnaldii* (Beck). Found at Clayton-le-Moors.

*Hyalinia cellaria* (Mull.) Common in cellars and moist places.

*V. complanata* (Jeff.). Not common.

*V. Albina* (Moq.). Rare.

*Hyalinia glabra* (Studer). On Whalley Nab, also in Fence Lane, and at Sabden.

*V. viridans* (Ckll.). Very rare, at Read.

*Hyalinia alliaria* (Miller). Common on hedge-banks.

*Hyalinia nitidula* (Drap.). Common in woods and hedgerows. Very fine at Clerkhill.

*V. nitens* (Mich.). Found along with the type, fairly common.

*Hyalinia radiatula* (Alder). In a small wood near Clayton-le-Moors; rare.

*Hyalinia pura* (Alder). Ightonhill and Read.

*Hyalinia crystallina* (Mull.). Fairly common in woods, under stones and moss.

*Hyalinia fulva* (Mull.). In the wood at Clerkhill, under dead leaves and decaying branches.

*Hyalinia nitida* (Mull.). On the canal side, near Rosegrove. Rare.

*Helix rotundata* (Mull.). Common everywhere in lanes, under moss and dead leaves.

*V. turtoni* (Flem).

*V. pyramidalis* (Jeff.).

*V. minor* (Jeff.).

*M. scalariforme*. One good specimen of this taken at Read.

*Helix rupestris* (Drap.). Whalley, on dry stone walls.

*Helix pygmaea* (Drap.). Whalley, rare.

*Helix auleata* (Mull.). Clerkhill. Very rare.

*Helix pulchella* (Mull.). Canal bank near Rosegrove.

*Helix aspersa* (Mull.). Whalley churchyard.

*V. flammea* (Picard). One good specimen taken at Whalley.

*M. sinistrorsum* (Taylor). A specimen taken in Whalley churchyard; now in the possession of Mr. R. Standen, of Owens College, Manchester.

*Helix nemoralis* (L.). Common around Simonstone, Read, Fence Lane, and Higham.

*V. minor* (Moq.).

*V. albolabiata* (Von Mart).

*V. bimarginata* (Moq.).

*V. rubella* (Moq.).

*V. libellula* (Risso).

*V. castanea* (Moq.). Very fine at Read, also near Higham.

*V. roseozonata* (Ckl.).

*V. hyalozonata* (Taylor).

*M. Sinistrorsum* (Taylor). One specimen taken in Ightonhill, near Tim Bobbin.

*M. scalariforme* (Taylor). A very fine specimen taken in Ightonhill Lane, now in the possession of Mr. J. Russell Wildman, of Hapton.

*Helix hortensis* (Mull.). Common throughout the district on hedgerows, and in woods.

*V. minor* (Moq.). In Molly Wood, Rosegrove.

*V. lutea* (Moq.). Common.

*V. baudonia* (Taylor). A peculiar olive-green variety, first taken by Mr. R. Wigglesworth, curator of Accrington Park Museum. It is found near Clayton-le-Moors, also near Altham.

*Helix arbustorum* (L.). Common around Simonstone and Read, also in Fence-lane.

*V. fusca* (Fer.).

- V. canigonensis* (Boubee).  
*V. cincta* (Taylor).  
*V. flavescens* (Moq.).  
*Helix rufescens* (Penn.). Common everywhere on hedgerows, and in woods under moss and dead leaves.  
*V. minor* (Jeff.).  
*V. rubens* (Moq.).  
*V. alba* (Moq.).  
*Helix hispida* L. (*H. concinna*, Jeff.). Around Whalley; very fine at Salthill, Clitheroe.  
*Helix granulata* (Alder) (*H. sericea*; Jeff.). Common, and very fine, at Clerkhill and Whalley Nab; also in Fence-lane, and in Long Dick Wood, near Hapton.  
*Helix fusca* (Mont.). Clerkhill Wood. Very rare.  
*Buliminus obscurus* (Mull.). Ightonhill and near Whalley.  
Pupa cinerea (Drap.). A small colony found near Stonyhurst, probably introduced by some of the students from France or Italy.  
Pupa anglica (Fer.) (*P. ringens*, Jeff.). In Clerkhill Wood. Very rare.  
Pupa cylindracea (Da Costa) (*P. umbilicata*, Drap.). Very abundant around Read and Whalley, also in Padiham-road, near Palace House; also in Byerden Lane and Fence.  
*V. Curta* (Westl.).  
*Vertigo alpestris* (Alder). Clerkhill, very rare.  
*Vertigo substriata* (Jeff.). Same as last.  
*Vertigo edentula* (Drap.). Around Whalley, and in Molly Wood, Rosegrove. Rare.  
*Balea perversa* (L.). There is a record of this species having been taken at Clerkhill by a Captain Brown, in 1847. It is now to be found at Downham.  
*Clausilia perversa* (Pult.) (*C. rugosa* (Drap.)). Very abundant around Whalley, also in Molly Wood.  
*V. gracilior* (Jeff.).  
*V. parvula* (Turt.).  
*Clausilia laminata* (Mont.). Whalley, and at Cock Bridge.  
*Azeca tridens* (Pult.). At Read, also near Fence.  
*V. crystallina* (Dup.).  
*Cochlicopa lubrica* (Mull.). Common everywhere on hedgerows and grassy banks.  
*V. lubricoides* (Fer.).  
*V. hyalina* (Jeff.).  
*Succinea putris* (L.). Common on the canal side, also in a swamp near Pendle stepping stones.  
*V. vitrea* (Moq.). Pond near Harwood.  
*Succinea elegans* (Risso). Around the edges of ponds near Whalley, and at Gooseleach, Simonstone.  
*V. Pfeifferi* (Rossm.).  
*Carychium minimum* (Mull.). Generally common on hedgebanks, and in woods, under moss and dead leaves.  
*Segmentina nitida* (Mull.) (*Planorbis lineatus*, (Walker)). Gooseleach, Simonstone; also in pond near Harwood.  
*Planorbis fontanus* (Lightfoot) Pl. nitidus Jeff.). In the canal at Rosegrove, ponds near Accrington, and stream near Carr Hall, Nelson.  
*Planorbis nautilus* (L.). Gooseleach; also in a pond at Huncoat.  
*Planorbis dilatatus* (Gould). In the Paper Works Lodge, at Stoneyholme; also in the canal, near the Tunnel End, at Gannow.  
*Planorbis albus* (L.). In the canal; also in a pond at Carey's Farm, at Ightonhill.  
*Planorbis parvus* (Say) (Pl. glaber, Jeff.). In the Paper Works Lodge, at Stoneyholme.  
*Planorbis spirorbis* (Mull.). In most ponds and roadside ditches in the district.  
*Planorbis vortex* (L.). Ditch near Huncoat.  
*Planorbis cornutus* (Mull.). In the canal, near Rosegrove.  
*Planorbis umbilicatus* (Mull.) Pl. complanatus, (Jeff.). In the canal, also in the lodge at Lowerhouse.  
*Planorbis cornus* (L.). In the canal, near Gannow.  
*Planorbis contortus* (L.). In a small swampy pond at Simonstone.  
*Bullinus hypnorum* (L.). In a ditch at Ightonhill.  
*Physa fontinalis* (L.). In a pond near Whalley.  
*Limnæa peregra* (Mull.). In every pond and ditch in the district. Very variable, almost every pond having its own peculiar variety of form.  
*V. ovata* (Drap.).  
*V. oblonga* (Jeff.).  
*V. diaphana* (Parr.). This variety has been found in the cistern on the top of the engine house of Gannow Shed.  
*V. labiosa* (Jeff.).  
*M. decollatum* (Jeff.). In a pond near Harwood.  
*Limnæa auricularia* (L.). In the canal at Rosegrove, and in ponds near Clayton-le-Moors.  
*Limnæa stagnalis* (L.). In the canal at Gannow.  
*Limnæa palustris* (Mull.). In ponds near Accrington; also near Whalley.  
*V. elongata* (Moq.).  
*Limnæa truncatula* (Mull.). In a ditch at Ightonhill.  
*V. microstoma* (Drouet). In a small stream at Green's Clough, near Portsmouth.  
*Limnæa glabra* (Mull.). In a ditch at Huncoat.  
*Ancylus fluviatilis* (L.). In a small stream at Stonymoor, near Hapton, also at Simonstone.  
*V. Albida* (Jeff.). At Clayton-le-Moors. Very fine specimens.  
*Neritina fluviatilis* (L.). In the canal at Brierfield.  
*Viviparus contactus* (Millet). In a pond at Huncoat; also at Rishton.  
*Valvata piscinalis* (Mull.). In the canal at Gannow, also in the Paper Works Lodge, at Stoneyholme.  
*Unio pictorum* (L.). In the canal at Rosegrove.  
*V. latior* (Jeff.). In canal, near Brierfield.  
*Anodonta cygnea* (L.). In the Lodge at Lowerhouse; also in the canal at Rosegrove.  
*V. radiata* (Mull.).  
*Anodonta anatina* (L.). In the canal, and in a mill lodge near Brierfield.  
*V. Complanata* (Rossm.).  
*V. radiata* (Jeff.).  
*Sphærium corneum* (L.). Canal at Gannow; also at Gooseleach, Simonstone.  
*V. flavescens* (Macgill).  
*Sphærium rivicola* (Leach). In the canal, at Rosegrove.  
*Sphærium pallidum* (Gray) (*S. ovale*, Jeff.). In the canal at Rosegrove; also at Clayton-le-Moors.  
*Sphærium lacustre* (Mull.). In the Paper Works Lodge, at Stoneyholme.  
*Pisidium amnicum* (Mull.). In the river at Pendle Bridge.  
*Pisidium fontinale* (Drap.). Ditch in Ightonhill, Park Lane.  
*Pisidium pusillum* (Gmelin). Ditch near Simonstone, also in pond near Rosegrove.  
*Dreissena polymorpha* (Pall.). In the Lodge, at Lowerhouse.

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The Moths and Butterflies of the Burnley District.

In fulfilment of the promise made in the last issue of our Journal, the Committee have much pleasure in publishing the following list of Moths and Butterflies found in the Burnley district—that is to say, within a six-miles radius of the Burnley Town Hall. It has been carefully compiled by Mr. W. G. Clutton and Mr. Albert Wright, and will be found a reliable guide to those interested in local Macro-Lepidoptera. Both Mr. Clutton and Mr. Wright have given long and careful attention to this branch of Natural History, and the Committee have full confidence in submitting their list.

The number of British Butterflies is 65. The number found in the Burnley district is 10. The number of British Moths is about 600. The number found in our district is 159.

By way of preface, it only need be stated that the letter C denotes "common," the letter S "scarce," and the letter R "rare."

BUTTERFLIES.

- 1.—Brassicæ, Large White (C).
- 2.—Rapæ, Small White (C).
- 3.—Napi, Green-veined White (C).
- 4.—Urticæ, Small Tortoiseshell (C).

- 5.—Io, Peacock (R).
- 6.—Atalanta, Red Admiral (C).
- 7.—Cardui, Painted Lady (R.)
- 8.—Janira, Meadow Brown (R).
- 9.—Pamphilus, Small Heath (C).
- 10.—Icarus, Common Blue (R).

MOTHS.

- 11.—Convolvuli, Convolvulus Hawk (R).
- 12.—Celerio, Silver Striped Hawk (R).
- 13.—Elpenor, Great Elephant Hawk (R).
- 14.—Populi, Poplar Hawk (C).
- 14a.—Stellatarum, Humming Bird Hawk (R.).
- 15.—Crabroniformis, Lunar Hornet (R.)
- 16.—Plantaginis, Wood Tiger (R).
- 17.—Menthastri, White Ermine (S).
- 18.—Humuli, Ghost (C).
- 19.—Sylvinus, Wood Swift (S.)
- 20.—Velleda, Northern Swift (C).
- 21.—Lupulinus, Common Swift (C).
- 22.—Hectus, Gold Swift (S).
- 22a.—Salicis Satin (R.)
- 23.—Pavonia, Emperor (S).
- 24.—Spinula, Chinese Character (R).
- 25.—Vinula, Puss (S).
- 26.—Camelina, Coxcomb Prominent (S).
- 27.—Dromedarius, Iron Prominent (S).









NOCTUÆ.

- 28.—Perla, Marbled Beauty (S).  
 29.—Psi, Dagger (C).  
 30.—Menyanthidis, Light Knotgrass (S).  
 31.—Impura, Smoky Wainscot (S).  
 32.—Pallens, Common Wainscot (S).  
 33.—Fulva, Small Wainscot (C).  
 34.—Nictitans, Ear Moth (S).  
 35.—Micacea, Rosy Rustic (R).  
 36.—Rurea, Clouded Brindle (C).  
 37.—Polyodon, Dark Arches (C).  
 38.—Graminis, Antler Moth (C).  
 39.—Testacea, Lesser Flounced Rustic (S).  
 40.—Brassicæ, Cabbage Moth (C).  
 41.—Gemina, Dusky Brocade (S).  
 42.—Unanimis, Uniform Rustic (S).  
 43.—Oculea, The Ear Moth (C).  
 44.—Strigilis, Marbled Rustic (C).  
 45.—Fasciuncula, Middle-barred Minor (C).  
 46.—Literosa, Rosy Minor (S).  
 47.—Arcuosa, Dotted Buff (C).  
 48.—Haworthii, Haworth's Minor (C).  
 49.—Quadripunctata, Mottled Rustic (C).  
 50.—Tenebrosa, Brown Rustic (S).  
 51.—Suffusa, Dark Sword-grass Moth (R).  
 52.—Exclamationis, Heart and Dart (C).  
 53.—Strigula, Lover's Knot (S).  
 54.—Lucerneæ, Northern Rustic (R).  
 55.—Glareosa, Autumnal Rustic (S).  
 56.—Augur, Double Dart (C).  
 57.—Plecta, Flame-shouldered Moth (C).  
 58.—Brunnea, Purple Clay (S).  
 59.—Festiva, Ingrailed Clay (C).  
 60.—Rubi, Small Square-spot (S).  
 61.—Umbrosa, Six-striped Rustic (S).  
 62.—Baja, Dotted Clay (C).  
 63.—Xanthographa, Square-spot Rustic (C).  
 64.—Pronuba, Yellow Underwing (C).  
 65.—Comes, Lesser Yellow Underwing ditto (C).  
 66.—Tragopogonis, The Mouse (S).  
 67.—Typica, The Gothic (C).  
 68.—Maura, The Old Lady (R).  
 69.—Rubricosa, Red Chestnut (S).  
 70.—Gothica, Hebrew Character (C).  
 71.—Incerta, Clouded Drab (C).  
 72.—Stabilis, The Quaker (C).  
 73.—Miniosa, Blossom Underwing (R).  
 74.—Munda, Twin-Spotted Quaker (R).  
 75.—Pulverulenta, Small Quaker (S).  
 76.—Rufina, Flounced Rustic (S).  
 77.—Litura, Brown-spotted Pinion (R).  
 78.—Fulvago, The Sallow (R).  
 79.—Flavago, Pink-barred Sallow (R).  
 80.—Circellaris, The Brick (C).  
 81.—Trapezina, The Dunbar (C).  
 82.—Capsincola, The Lychnis (S).  
 83.—Cucubali, The Campion (S).  
 84.—Chi, Grev Chi (C).  
 85.—Templi, Brindled Ochre (S).  
 86.—Oxyacanthæ, The Brindled Crescent (C).  
 87.—Aprilina, Marvel-de-jour (C).  
 88.—Lucipara, Small Angle-shades (C).  
 89.—Meticulosa, The Angle-shades (C).  
 90.—Adusta, Dark Brocade (C).  
 91.—Protea, The Proteus (S).  
 92.—Glauca, Glaucous Shears (S).  
 93.—Dentina, The Grey Shears (S).  
 94.—Oleracea, The Bright-line (C).  
 95.—Pisi, The Broom Moth (C).  
 96.—Thalassina, Pale-shouldered Brocade (S).  
 97.—Exoleta, The Sword Grass (R).  
 98.—Solidaginis, Golden-rod Brindle (R).

- 99.—Triplasia, The Dark Spectacle (R).  
 99a.—Tripartita, Light Spectacle (S).  
 100.—Chrysis, Burnished Brass (C).  
 101.—Iota, Plain Golden Y. (C).  
 102.—Pulchrina, Beautiful Golden Y. (C).  
 103.—Gamma, Silver Y. (C).

DELTOIDES.

- 104.—Probosidalis, Large Snout (R).  
 GEOMETRÆ  
 105.—Luteolata, The Brimstone (C).  
 106.—Margaritaria, Light Emerald (S).  
 107.—Bilunaria, Early Thorn (S).  
 108.—Bidentata, Scaloped Hazel (S).  
 109.—Elinguaria, Scaloped Oak (C).  
 110.—Quercinaria, August Thorn (R).  
 111.—Pedaria, Pale Brindled Beauty (C).  
 112.—Betularia, Peppered Moth (S).  
 113.—Cambrica, Cambric Wave (C).  
 114.—Aversata, Riband Wave (C).  
 115.—Pusaria, White Wave (C).  
 116.—Rotundaria, Round-winged Wave (R).  
 117.—Exanthemaria, Common Wave (S).  
 118.—Vauaria, V Moth (S).  
 119.—Atomaria, Common Heath (C).  
 120.—Piniaria, Bordered White (S).  
 121.—Grossulariata, The Magpie (C).  
 122.—Rupicaprararia, Early Moth (C).  
 123.—Leucophaæaria, Spring Usher (S).  
 124.—Aurantaria, Scarce Umber (S).  
 125.—Marginaria, Dotted Border (C).  
 126.—Defoliaria, Mottled Umber (C).  
 127.—Æscularia, March Moth (S).  
 128.—Brumata, Winter Moth (C).  
 129.—Dilutata, November Moth (C).  
 130.—Filigrammaria, The Autumnal (S).  
 131.—Didymata, Twin-spot Carpet (C).  
 132.—Multristrigaria, Mottled Grey (C).  
 133.—Cæsiata, Mountain Carpet (C).  
 134.—Salicata, Striped Twin-spot (S).  
 135.—Viridaria, Green Carpet (C).  
 136.—Albulata, Grass Rivulet (S).  
 137.—Decolorata, Sandy Rivulet (S).  
 138.—Pulchellata, Foxglove Pug (S).  
 139.—Fraxinata, Ash Pug (S).  
 140.—Nanata, Narrow-winged Pug (S).  
 141.—Vulgata, Common Pug (C).  
 142.—Laricata, Larch Pug (S).  
 143.—Trifasciata, May High-flyer (C).  
 144.—Sordidata, July High-flyer (C).  
 145.—Ocellata, Purple-barred Carpet (C).  
 146.—Montanata, Silver-ground Carpet (C).  
 147.—Galiata, Galium Carpet (S).  
 148.—Fluctuata, Garden Carpet (C).  
 149.—Badiata, Scorched Carpet (S).  
 150.—Nigrofasciaria, Streamer (R).  
 151.—Munitata, Red Carpet (R).  
 152.—Designata, The Flame (S).  
 153.—Furrugata, Red Twin-spot Carpet (C).  
 154.—Umidentaria, Dark-barred Carpet (R).  
 155.—Dubitata, The Tissue (R).  
 156.—Immanata, Marbled Carpet (C).  
 157.—Suffumata, Water Carpet (C).  
 158.—Testata, The Chevron (S).  
 159.—Populata, Northern Spinach (C).  
 160.—Fulvata, Barred Yellow (C).  
 161.—Dotata, Barred Straw (C).  
 162.—Limitata, Small Mallow (S).  
 163.—Plumbaria, Lead Belle (S).  
 164.—Atrata, The Swallow (C).  
 165.—Sambucaria, The Swallow Tail (S).  
 166.—Rubiginata, Blue-bordered Carpet (R).  
 167.—Albipunctata, White Spotted Pug (R).







