

THE
NORTHERN CAVERN and MINE RESEARCH SOCIETY

M E M B E R S B U L L E T I N .

NUMBER 6

19th. MARCH 1965

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Printed and Published
by
The Northern Cavern & Mine Research Society
5, Calton Terrace, Carleton Road, Skipton, Yorks.

PRESIDENT'S MESSAGE

It should be obvious from the subject matter contained in this bulletin that a determined effort has been made to put the Society on a sound footing and provide maximum amenities for all.

The decision not to involve ourselves in the sport of potholing as such, but to conduct our affairs as laid down in the Constitution will come as a relief to those of you who have, for so long, openly advocated that this should in fact be done.

Provision has been made for those of you who enjoy the occasional caving and potholing trip to continue your interest. In this respect we have to thank the White Rose Pothole Club for their willingness to co-operate with us; in return I trust you will make their members feel at home at our functions and give freely of your specialist knowledge.

We have to thank those members who have submitted lists of their interests and even more so those who have offered to answer correspondence on various subjects.

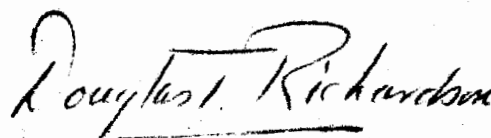
The Field Meets programme is, we hope, more in keeping with that of a research organisation and that through them we will be brought into closer contact with each other. I appeal to you all to give these Field Meets your fullest support - there are only six of them - by the end of the season we should be in a position to hear your comments and as a result hope that even greater interest can be aroused in 1966.

The collection of 35mm colour slides are yours - please use them - better still offer your services at your local village hall and bring some money back into the Society coffers - it will be used to extend the number of colour slides available.

Finally remember this is your publication - USE IT.

SKIPTON.

19th. March 1965



Douglas T. Richardson.

President.

HONORARY SECRETARY

The Society Honorary Secretary is :-

Kenneth Walls, A.C.C.S.,
33, Gledhow Avenue,
Roundhay,
LEEDS, 8
Yorkshire.

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1965 SYLLABUS

Past experience has shown that members do not wish to be presented with a week by week list of meets as most are engaged on projects of their own. We feel, however, that members of the Society as a whole should be given the opportunity of seeing what is being done and how things are done as well as the opportunity to visit areas of mutual interest. To achieve this we have limited the Syllabus to six field meets, details of which are given later in this publication.

It is not intended that the Field Meets be limited to members only and it is hoped that you will introduce friends and members of other organisations to the meets.

The actual Field Meets will be held on Sundays - you will also be given the opportunity of getting together on the Saturday, the idea being that the organisers can, if they so wish, give a lecture and /or slide show illustrating points of interest to be seen in the field or alternatively the Saturday meeting will take the form of a Social gathering where you will be able to exchange views and get to know one another, etc. In this respect anyone attending the Saturday function is asked to bring along photographs, colour slides, maps, etc. which will be of interest to members as a whole. Providing prior notice is given there is no reason why a projector and screen cannot be made available.

You will have to meet your own expenses and will be expected to pay a share towards the hire of the room if this is necessary. Members attending the Sunday meet only will of course not be expected to contribute towards the Saturday function.

It should be obvious that the organiser of each field meet must be given written notification of your intention to attend in advance so that he can make arrangements for the hire of a room and permission for the Field Meet. Each organiser will do his best to advise on available accommodation in his area, but you will be expected to make your own arrangements for staying overnight. Notification forms are included with this Bulletin.

Where a Field Meet is preceded by a lecture organisers are requested to present their lecture in written form so that it can be reproduced in the Society Memoirs. It would also help for future planning if organisers would keep a list of the numbers attending the Field Meets.

This is a new idea which we feel could be of benefit to all - it cannot succeed however without your support.

In addition we give a list of the work being carried out by individual members of the Society. If you are interested in joining up with anyone you are advised to write to the member in question.

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SOCIETY POLICY

It was unanimously agreed at the General Meeting held at the Miners Arms, Greenhow on the 31st January 1965 that the affairs of the Society would be run in strict accordance with the Society Constitution.

Members who have not got a copy of the Constitution should write to the Honorary Secretary.

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POTHOLING

It was unanimously agreed at the General Meeting held on the 31st. January 1965 that the Society was not a potholing organisation and that it would not engage in potholing as a sport. The Society would, however, maintain sufficient equipment to enable members carry out their researches.

With regard to potholing as such the Society is seeking co-operation with a potholing organisation and it is hoped we will be able to advise you on this in the very near future.

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MINE EXPLORATION

It must be realised that most of the mines, particularly in Craven, are now in such a state of decay that they are liable to collapse at any moment. Members of the Society are asked to bear these facts in mind and to exercise the greatest caution. Do not forget the point at which you enter a mine is also the only way out - whereas we have a pretty efficient Cave Rescue Organisation - they have no experience in rescuing people from collapsed mine workings - such work is difficult enough in a modern mine - and can be considered an almost impossible task in old workings - one cannot dig and blast as one likes in an old mine.

The Society does not recommend the random exploration of mines but will not interfere with you as individuals. All we ask is that you take heed of the advice published by J.R. Foster-Smith in N.C. & M.R.S. Transactions Volume I Number 2 1962/63 in his article entitled:-

"The North Pennine Metalliferous Mining Fields"

We reproduce his advice herewith:-

....." It should be clearly understood that most old mine workings are dangerous places, even to the experienced man who understands the conditions and is able to interpret what he sees into practicalities.

The points mentioned in the list given below are a few of the most obvious dangers which will confront the explorer of old mine workings. Many of these dangers are not readily apparent to the casual visitor.

1. Bad air is often present in old workings and this is particularly insidious since its effects are often gradual and not appreciated until it is too late to escape.
2. The older mines were often driven in soft ground for ease of driving and such ground is now often unstable and liable to collapse.

3. An accumulation of mud or water on the floor of a tunnel may well disguise the fact that there are open, but water filled workings, winzes or shafts in the bottom of the level.
4. Where a tunnel is dry underfoot, the floor may be set upon old timbering which was set above open stopes and is now rotted to the point where it is liable to sudden collapse.
5. Ladders and stagings in old workings have probably been in place in a damp atmosphere for many years and have almost certainly become rotted to a dangerous state.
6. Old shafts are particularly dangerous, since even though they may appear to be soundly walled or timbered when looking down from the top, such walling was often set upon a timber frame further down and this will probably be soft or rotten, thus rendering the whole structure unsound. In addition, old shafts are particularly liable to accumulations of carbon dioxide, or blackdamp.

The exploration of old mine workings is undoubtedly a fascinating subject, but unfortunately all too little is available by way of published advice and assistance to those who wish for experience. It is not possible to give anything like a full description of the subject here, for an exhaustive description would require a book in itself. The following hints are however offered to intending explorers:-

1. NEVER explore old mine workings alone.
2. ALWAYS tell someone responsible outside where you are going and what you hope to achieve.
3. ALWAYS carry a candle or flame lamp with you if you are using electric lights, also have plenty of dry matches with you, preferably in a watertight tin.
4. ALWAYS test the atmosphere by lighting a candle or oil safety lamp from time to time, if you feel no ventilation current in the workings. If a candle or safety lamp will not burn in the atmosphere GET OUT AT ONCE. A carbide lamp will NOT suffice for this purpose, since it will often continue to burn when the atmosphere is unfit to breathe. Naked lights are not usually dangerous in Pennine metalliferous mines, since accumulations of explosive gases are practically unknown.
5. NEVER interfere with old hopper-mouths or timbers, as they may be rotten and disturbance may cause a serious collapse or run of loose rock.
6. ALWAYS keep an eye on the floor of the tunnel as well as the top. If any open holes can be seen in the floor, be particularly careful, as the timbers at the top of old shafts and winzes are often very unsafe.
7. ALWAYS carry a stout stick if the tunnel has a stream of water or soft mud in it. Use the stick to poke heavily into the floor ahead

of you as you go. A ducking in such conditions is very unpleasant at least and may well be exceedingly dangerous.

8. NEVER try to climb up or down old ladders, even if they seem to be quite sound when you first see them.
9. NEVER try to go down an old shaft or winze by any means until you have lowered a flame lamp or candle to ascertain that the air is breathable.
10. ALWAYS carry some food and drink with you on such explorations in case you become trapped and have to wait for rescue.
11. ALWAYS wear suitable clothes to protect you against dirt, cold or wet and ALWAYS wear a hard hat underground.
12. REMEMBER your carelessness in omitting any reasonable precautions may lead not only to extreme danger to your own life, but also to much trouble, effort and danger being caused to those who will be forced to get you out of it again. IT CAN HAPPEN TO YOU, so ALWAYS THINK BEFORE YOU ACT AND IF IN ANY DOUBT --- DON'T. Persuade an experienced person to accompany you on such explorations when-ever possible. "

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BUCKDEN GAVEL MINE

N.G.R. S.D. 9552.7816

We have been notified that bad air has been encountered in the roof of these workings at a point just beyond fungus junction.

Members are advised to exercise care when exploring this mine and are advised to carry a Davey lamp or candles and to make frequent tests. Carbide lamps are not reliable indicators of bad air.

Ref: N.C. & M.R.S. Newsletters 1963. No.3 September 1963. Sketch Map Buckden Gavel Mine. p.31.

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ANNUAL DINNER

Your answers to the questionnaire have left us in no doubt as to the general feeling about this function. There is a strong recommendation that the function be retained and an equally strong recommendation that we should hold it in smaller more comfortable surroundings.

Your comments have been valuable and we can assure you that every effort will be made to comply with your wishes as members of the Society.

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GENERAL MEETINGS 1965 SEASON.

These will be held at the Miners Arms Inn, Greenhow (Pateley Bridge side of Stump Cross Caverns) on the following dates. Refreshments, in the form of sandwiches, will be available.

Officers are asked to render their reports in advance in writing to the Honorary Secretary. Members wishing to bring matters up at the meeting are asked to notify the Honorary Secretary of the subject matter of their request.

Dates of the meetings are as follows:-

Sunday 11th. April 1965 2.15 p.m.
Sunday 13th. June 1965 2.15 p.m.
Sunday 19th. September 1965 2.15p.m.

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MEMOIRS 1965

It has been suggested that we continue to issue the Memoirs in three parts as in 1964 thus keeping members informed of what is going on.

This being so I must ask you all to consider putting pen to paper - details as to what is required, how to draw your maps, etc. are given in Members Bulletin Number 5. 15th. January 1965.

Final dates for copy are as follows:-

Memoirs 1965 Number 1 17th. April 1965
Memoirs 1965 Number 2 17th. July 1965.
Memoirs 1965 Number 3 16th. October 1965.

The list of your various interests suggests that we must have quite a number of would be contributors amongst our ranks.

Please send your contributions to me -

D.T.Richardson. Honorary Editor.

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SOCIETY BADGES

Available from the Honorary Treasurer 3/0d post free.

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PHOTO NEGATIVES

Mr. J.M.Dickinson is preparing black and white enlargements for the Society records and for the permanent exhibition of Society mining materials which is to be exhibited at the Cliffe Castle Art Gallery and Museum, Keighley. He is doing the work himself and is fit up to deal with 35 mm negatives (not larger ones). He would be obliged if members would loan him material. It would be better if you contacted Mr. Dickinson in the first place as it is obvious that he will not be able to deal with everyones negatives at the same time. Details of the photographs represented should be sent with the negatives. Your negatives will be returned to you unless you indicate that they should be retained as Records material.

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MEMBERS INTERESTS

The accompanying list of members interests is published in the hope that it will encourage an interchange of correspondence between members and bring together those with similar interests. This list should not be confused with the CORRESPONDENCE LIST - SPECIALIST SUBJECTS - given later in this publication.

ALUM POT AREA

R.G.Guthrie: D.T.Richardson.

ARCHAEOLOGY

D.M.Goth (Amateur Status): W.J.Keay.

BOTANY

D.T.Richardson.

CAVING and POTHOLING

R.G.Guthrie:F.Hall:D.M.Judson.(World wide interest): J.E.Holding.

CAVE BACTERIOLOGY

D.T.Richardson.

CAVE BIOLOGY

D.T.Richardson.

CAVE CHEMISTRY

R.J.Bater: D.T.Richardson.

CAVE CONSERVATION

Dr.A.J.Sutcliffe.

CAVE DIGGING

J.M.Dickinson:R.G.Guthrie:D.M.Judson:
J.C.Wade.

CAVE PHOTOGRAPHY

J.E.Freeman:W.J.Keay:D.T.Richardson.

CAVE PHYSICS

J.D.Wilcock.

CAVE SURVEYING

J.M.Dickinson:J.E.Holding:J.D.Wilcock.

CAVERN FORMATION, DEVELOPMENT & DEPOSITS

P.J.Appleton.

CHEMISTRY (ANALYTICAL)

D.T.Richardson.

CLEVELAND IRONSTONE MINES

F.Hall.

COAL MINING & ALLIED INDUSTRIES in the N.W.Extremity of the Yorkshire Coal Field (Bradford area)

P.D.Lodge

COLLECTING & DEALING IN MINERALS

R.S.Harker:A.R.Nichols.

ELECTRONICS & COMMUNICATIONS

D.M.Goth: J.D.Wilcock.

GEOLOGY

P.J.Appleton:J.M.Ashworth:J.D.Wilcock.
R.H.Hewitt.

HYDROLOGY

J.D.Wilcock: J.C.Wade.

INDUSTRIAL ARCHAEOLOGY

J.E.Freeman.

INDUSTRIAL ARCHAEOLOGY(Particularly Coal Mining& Allied Industries in the P.D.Lodge N.W.Extremity of the Yks.coalfield)

MEMBERS INTERESTS (continued)

LEAD MINING in GENERAL

M.Butterfield: W.Walton.

MAPS

J.E.Freeman.

METALLURGY

P.J.Appleton.

MICROSCOPY

D.T.Richardson.

MINERALOGY

R.H.Hewitt: R.S.Harker:A.R.Nichols:J.D.Wilcock.

MINERALOGY -CRAVEN AREA

G.E.Metcalf.

MINING - METALLIFEROUS

HISTORY OF CRAVEN MINES

J.M.Ashworth: J.M.Dickinson.

HISTORY CORNWALL & DEVON

R.Bayles.

HISTORY in GENERAL

J.Brooke:R.S.Harker:C.H.Hamer
S.H.Jackson:K.Walls:R.Walls.

CLEVELAND IRONSTONE MINES

F.Hall.

MINING ENGINEERING

J.R.Foxster-Smith.

MINING GEOLOGY

M.Butterfield:J.R.Foxster-Smith:
R.S.Harker.

MINING MINERALOGY

D.M.Goth.

MINING SUBJECTS IN GENERAL

P.J.Appleton:D.M.Goth:F.Hall:J.E.
Holding:S.H.Jackson:W.Walton:
J.C.Wade: J.D.J.Wildridge.

MINING IN CRAVEN:

J.M.Dickinson: G.E.Metcalf.

MINING in the LAKE DISTRICT

J.D.J.Wildridge.

MINING IN YORKSHIRE

R.H.Mitchell.

MINE RAILWAYS

D.Joy.

MINE RECORDS & DOCUMENTS

J.M.Ashworth:R.J.Bater:J.M.Dickinson:
J.E.Holding:J.C.Wade: J.D.Wilcock.

MINE BUILDINGS & PLANT

J.D.Wilcock: J.H.Whittaker.

NATURAL HISTORY

Dr.A.J.Sutcliffe.

ORE DEPOSITS in YORKSHIRE

R.H.Mitchell.

ORGANIC CHEMISTRY (Plastics)

R.M.Thornton.

PALAEONTOLOGY

R.J.Appleton:Dr.A.J.Sutcliffe.

PHOTOGRAPHY - GENERAL (see also
cave photography)

J.E.Freeman:D.Joy:D.T.Richardson.

PRESS CUTTINGS on METALLIFEROUS
MINING,CAVING,etc.

J.E.Holding.

MEMBERS INTERESTS

(continued)

RESISTIVITY METERS

J.D.Wilcock.

SCIENTIFIC AIDS TO SPELEOLOGY
(Resistivity Meters, etc)

J.D.Wilcock.

SWALEDALE - IN GENERAL

R.G.Guthrie.

SWALEDALE Lead Mine History (with
special reference to the social
history of miners in the area)

Miss. M.A.Templeman.

WATER ANALYSIS

D.T.Richardson. J.D.Wilcock:
R.J.Bater.

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WORKING COMMITTEE MEETINGS

These are held in the lounge of the Devonshire Hotel, Newmarket Street, Skipton at 8.30 p.m. FIRST Friday in every month. It is usual practice to co-opt ordinary members of the Society who come along.

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LOCAL GATHERINGS - SKIPTON AREA

Members meet almost every Friday evening in the lounge of the Devonshire Hotel, Newmarket Street, Skipton 8 to 8.30 p.m. onwards. If the Devonshire Hotel is overcrowded the gathering moves to the lounge of the Midland Hotel, Broughton Road, Skipton (opposite the railway station) and will be found there from 9 p.m. onwards. All are welcome - come along and joins us.

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LECTURE SERIES

35mm COLOUR TRANSPARENCIES

The Society possesses some 60 - 70 colour transparencies of Grassington Moor area and some 20 to 30 of Cononley Incline Shaft and surrounding area.

Lecture notes have been prepared for Grassington Moor and are in the process of being typed out. As yet no notes have been compiled for Cononley as further photographs have to be taken. The notes will be forwarded with the slides.

The slides are available to members for private viewing on payment of a hire charge of 2/6d and the postage in both directions. Money should be forwarded in the form of a postal order or cheque made out to the Society - not in stamps - when the slides are returned.

Where lectures are to be given to a public audience a hire fee of not less than 25/0d (payable to the Society) plus the lecturers

LECTURE SERIES (continued)

expenses (travelling, use of projector, screen, etc.) should be made.

Money received from lectures will be used to purchase film for extending the lecture series.

The slides and accompanying lecture notes are available from:-

D.T. Richardson. 5, Calton Terrace, Carleton Road, Skipton, Yks.

The Society would like to build up its collection of colour slides - members willing to spare the time to take transparencies on behalf of the Society are asked to contact Mr. Richardson before settling down to a photographic orgy. At the moment we have no funds allocated for this work and it would be an embarrassment if we were presented with a number of bills for film and flash bulbs, etc.

If you feel you can afford to donate transparencies, or for that matter cash towards the purchase of film, we would be only too pleased to accept your offer.

It is realised that not every mine, cave or area will provide sufficient slides to form a complete lecture - single photographs are therefore welcome as they can form a part of a more comprehensive series.

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WATER SAMPLES

Will any member of the Society who is willing to collect samples of water from caves, potholes, mines, springs, etc. please get in touch with Mr. D.T. Richardson.

Enquiries are being made regarding the supply of suitable polythene bottles for this purpose and we would like to have an idea how many people would be prepared to help in the collecting before we commit ourselves to purchasing a quantity.

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REVIEW:

THE SPELEOLOGIST VOLUME I: NUMBER I, JAN/FEB. 1965

D.R.C. Publishing Co. Ltd. 24, Southernhay West, Exeter, Devon.

Here is a magazine which has everything for the caver, potholer, and speleologist and in addition provides interesting reading for the layman.

It is attractively presented, well set out and beautifully illustrated - in fact no effort has been spared in presenting the subject matter.

There are 27 articles which take us to Yorkshire, Mendip, Wales, the Dead Sea, Germany: tell us what new ropes are available; how the Northern and Southern Councils of Caving Clubs operate: How to take Underground Photographs, etc., etc. In addition we can exchange letters with fellow cavers, read about the latest caving and climbing books or enter a competition for the best photograph of the month.

REVIEW - THE SPELEOLOGIST (continued)

At 4/0 per copy every two months (6d per week) one can truthfully say here is a case of where one gets more than value for money.

To succeed it needs your support as a caver, potholer and speleologist - it is to be hoped that everyone will help to keep this magazine alive - at long last we have an unbiased publication for the caving world.

The publication is available from the publishers and a reduced rate is available if one years supply is ordered in advance.

D.T.R.

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RESIGNATIONS 1965

The undermentioned have tendered their resignations from the Society:

William EMMOTT 21, Prospect Mount, Fell Lane, Keighley, Yorks.

Miss Joan G. GUTHRIE, "Hawthorn House", 186, Station Road, Billingham, Co. Durham.

David HALL, 19, Hawthorn Road, Slaithwaite, Huddersfield, Yorkshire.

Michael WATSON, 104, Beeston Road, Leeds, 11, Yorkshire.

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UN-PAID SUBSCRIPTIONS - 1965

It is assumed that those who have not replied to the 1965 Subscription Reminder are not renewing membership for 1965. No publications are being forwarded to these people.

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CHANGES OF ADDRESS

Frank HALL, B.A. 7, Belle Grove Terrace, Spital Tongues, Newcastle -upon-Tyne, 2 or
c/o Department of Anthropology, University of Newcastle
-upon-Tyne, 11, Sydenham Terrace, Newcastle-upon-Tyne, 1

Roger S. HARKER, B.Sc. c/o Mrs Coak, Carn View, Pendeen, Penzance, Cornwall.

David JOY Holebottom, Hebden, Skipton-in-Craven, Yorks.
(AFTER THE 27th. March 1965)

Roger H. MITCHELL, B.Sc. Mineralogisk-Geologisk Museum, Sarsgt-1, Oslo, Norway.

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CAVING and POTHOLING

(Arrangements with the White Rose Pothole Club)

It must be clearly understood that the Society is not interested in the sport of caving and potholing as such - our interests lie in the scientific aspects of caving and potholing and the exploration of such places will be limited to the furthering of scientific knowledge thereof.

We realise that some of you enjoy the occasional visit to caves and potholes for the sport of the thing and that some may wish to have the opportunity of visiting a certain pothole as a preliminary to a more serious investigation.

With this in mind we put the following propositions to the White Rose Pothole Club :-

"Members of the Northern Cavern and Mine Research Society be granted permission to attend White Rose Pothole Club lectures and field meets - in return White Rose Pothole Club members be able to attend Northern Cavern and Mine Research Society lectures and field meets on the understanding that dues are paid where these apply.

One copy of each organisations publications to be deposited in the others library free of charge.

On the understanding that such arrangements do not entitle officers or members of either organisation to attend administrative meetings of the other (except where a person is a member of the other organisation in his own right) and that neither organisation will interfere with the affairs of the other. "

Original copy signed :-

D.T.Richardson President.

J.M.Dickinson Honorary Recorder.

6th. March 1965.

We have received verbal confirmation from their President that the propositions have been accepted by their Committee and that we will be receiving their official confirmation in due course.

CAVING and POTHOLING (Arrangements with the White Rose Pothole Club)
(continued)

You can therefore take it that you can attend White Rose Pothole Club lectures, and caving meets as from now onwards - should you however attend one of their field meets before we get the opportunity of circularising their official reply please make yourself known to the Leader in case there are slight alterations to the terms as quoted in this Bulletin.

For your guidance the White Rose Pothole Club is a mixed Club meets being open to members of both sexes. The ladies are however restricted to descending those caves and potholes marked on their Meets List, as "Social Members may Descend".

The White Rose Pothole Club is one of the most friendly and co-operative organisations in the North of England and you will find you will be made welcome. They, like ourselves, believe that co-operation along these lines will lead to a greater understanding between organisations as a whole.

Many of their members seek knowledge on the more scientific aspects of caving - we trust you will do your best to help them - they are, after all, potential speleologists of the future. They have a number of members keenly interested in digging and we hear that they will be pleased to hear of any such projects we may be able to pass on to them.

Their 1965/66 Meets List is due out in the near future - we will see that you get copies as soon as they become available, in the mean time here is a list of their outstanding 1965/65 Meets:-

- April 4th. Tot Lords Hole South Bank Pot.
- April 18th. Easter Camp Venue to be arranged
- April 25th. Birkwith area - Field Weekend.

Before setting out to a particular venue you are advised to contact their Acting Honorary Secretary Mr. Roger Harrison, "Dover Dene", Belmont Grove, Rawdon, Nr. Leeds, Yorks. in case there has been a change of venue - please enclose a stamped addressed post card for your reply.

For those without transport of their own - please note that the White Rose run a coach from Leeds via Bradford, Keighley - again the Acting Honorary Secretary will be able to advise you where they will be prepared to pick you up and at approximately what time.

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NORTHERN CAVERN & MINE RESEARCH SOCIETY

CORRESPONDENCE LIST

SPECIALIST SUBJECTS

The undermentioned members of the Society have offered to answer correspondence on the subjects listed.

You are asked to be sensible in respect to technical enquiries - all the people who have volunteered to give this service are busy people.

Please enclose a stamped addressed envelope for your reply and be patient in the case of delays.

It is hoped that through this service interests will be extended and that our less experienced members will feel that there are people in the Society to whom they can turn for advice, guidance, and encouragement.

P.J. APPLETON 73, Mold Road, Wrexham, Denbigshire.

Metallurgy: Any Mining or Speleological Topic Concerning North Wales.

R.J. BATER 40, Thornleigh Road, Horfield, Bristol, 7,

Any enquiries pertaining to the Mendip Area: Cave Chemistry and Information on Old Mines (except Coal).

R. BAYLES Teuthill, Frodsham, Warrington, Lancs.

History of Mining in Cornwall and Devon.

J. BROOKE, Kennet End, Harrow Park, Harrow on the Hill, Middlesex

Financial history of mining on Cornwall, Devon and Somerset: Information on commercial practice in mining elsewhere: Advice on sources of information on mining and ancillary trades.

J.M. DICKINSON "Thornlea", 8, Cedar Grove Road, Sutton-in-Craven, Keighley, Yks.

Cave Surveying and N.C. & M.R.S. Records.

J.R. FOSTER-SMITH, The Old Rectory, Middleton-in-Teesdale, Barnard Castle, Co. Durham

Advice or available information on Mining Engineering and Geology or the historical side of the metal mining industry especially North of England mines.

J.E. FREEMAN "Sunnyside", 35, York Road, Driffield, Yorks.

Stump Cross Series especially underground digs in old system. (Based on ten years practical knowledge of the system).

D.M. GOTH. "Schönerwald", Deerpark Lane, Hornby, Nr. Lancaster, Lancs.

Electronics and Communications. Archaeology.

R.G. GUTHRIE "Hawthorn House", 186, Station Road, Billingham, Co. Durham.

Swaledale. Alum Pot area (Cave and Water Identity).

F. HALL 7, Belle Grove Terrace, Spital Tongues, Newcastle-upon-Tyne, 2 or/
Department of Anthropology, University of Newcastle-upon-Tyne,
11, Sydenham Terrace, Newcastle-upon-Tyne, 1.

All caving and mining matters especially Cleveland Ironstone
and calcareous formations.

R. S. HARKER c/o Mrs Coak, Carn View, Pendeen, Penzance, Cornwall.

Geology and Mineral Collecting.

D. JOY Holobottom, Hebden, Skipton-in-Craven, Yorks. (after 28/3/65)

Photography: The preparation and presentation of reports: Mine
railways.

D. M. JUDSON Naresfield, Thornhill Road, Steeton, Keighley, Yorkshire.

Caving Equipment :- Ladder construction; type of rope etc.

P. D. LODGE 11, Ashtree Avenue, Thornton, Bradford, Yorkshire.

Coal Mining in Bradford, Yorkshire.

R. H. MITCHELL Mineralogisk-Geologisk Museum, Sarsgt, 1. Oslo, Norway

Anything mineralogical, petrological or geological.

D. T. RICHARDSON 5, Calton Terrace, Carleton Road, Skipton, Yorkshire.

Water analysis: Methods of analysis and equipment; Bacteriological
and Biological equipment and reagents; Duplicating.

Dr. A. J. SUTCLIFFE c/o British Museum (Natural History), Cromwell Road,
London, S.W. 7

Fossil Mammals

R. M. THORNTON 89, Headingley Mount, Leeds, 6, Yorkshire.

Organic chemistry - especially plastics.

J. C. WADE 14, Branch Road, Skipton, Yorkshire

Metaliferous mining exploration and collection of documents.
Cave digging and hydrology in Carboniferous limestone.

W. WALTON 20, Dragon View, Skipton Road, Harrogate, Yorkshire.

Greenhow and Merryfield mines, Yorkshire.

J. D. WILCOCK 10, Beech Drive, Clough Hall, Kildsgrove, Stoke-on-Trent, Staffs.

Cave surveying: Cave physics: Scientific aids to speleology.

J. D. J. WILDRIDGE "View Point", Ellerbeck Lane, Workington, Cumberland

Mining particularly in the Lake District.

Mrs. M. G. WOOD 12, Westville Avenue, Ilkley, Yorkshire.

Any question about the N.C. & M.R.S. Library and look up any subject
in the Library journals about which members may write in about.

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NORTHERN CAVERN & MINE RESEARCH SOCIETY - CORRESPONDENCE LIST (continued)

<u>ANALYTICAL METHODS & EQUIPMENT</u>	D.T.Richardson.
<u>ARCHAEOLOGY</u>	D.M.Goth.
<u>BACTERIOLOGICAL EQUIPMENT & MEDIA</u>	D.T.Richardson.
<u>BIOLOGICAL COLLECTING EQUIPMENT & REAGENTS</u>	D.T.Richardson.
<u>CALCARIOUS FORMATIONS</u>	F.Hall.
<u>CAVE CHEMISTRY</u>	R.J.Bater: D.T.Richardson
<u>CAVE DIGGING</u>	J.C.Wade
<u>CAVE PHYSICS</u>	J.D.Wilcock
<u>CAVE SURVEYING</u>	J.M.Dickinson: J.D.Wilcock
<u>CAVING EQUIPMENT</u>	D.M.Judson
<u>CAVING GENERAL</u>	F.Hall
<u>CAVING LADDERS - CONSTRUCTION</u>	D.M.Judson
<u>CAVING ROPES</u>	D.M.Judson.
<u>CAVING - SCIENTIFIC AIDS</u>	D.M.Goth: J.D.Wilcock.
<u>CAVES & POTHOLES of:-</u>	
<u>Alum Pot area</u>	R.G.Guthrie: D.T.Richardson
<u>Mendip</u>	R.J.Bater
<u>North Wales</u>	P.J.Appleton.
<u>Stump Cross Series</u>	J.E.Freeman.
<u>Swaledale</u>	R.G.Guthrie.
<u>CHEMISTRY</u>	
<u>Analytical</u>	D.T.Richardson.
<u>Cave</u>	R.J.Bater: D.T.Richardson.
<u>Organic (Plastics)</u>	R.M.Thornton.
<u>COLLECTING -Minerals</u>	R.S.Harker
<u>COLLECTING EQUIPMENT & REAGENTS</u>	
<u>Bacteriological</u>	D.T.Richardson.
<u>Biological</u>	D.T.Richardson.
<u>DUPLICATING</u>	D.T.Richardson.
<u>FOSSIL MAMMALS</u>	Dr.A.J.Sutcliffe
<u>GEOCHEMISTRY</u>	R.H.Mitchell.
<u>GEOLOGY</u>	R.H.Mitchell: R.S.Harker
<u>HYDROLOGY in CARBONIFEROUS LIMESTONE</u>	J.C.Wade

NORTHERN CAVERN & MINE RESEARCH SOCIETY - CORRESPONDENCE LIST - (continued)

<u>METALLURGY</u>	P.J.Appleton.
<u>MICROSCOPY</u>	D.T.Richardson.
<u>MINERALOGY</u>	R.S.Harker: R.H.Mitchell
<u>MINE RAILWAYS</u>	D.Joy.
<u>MINES</u>	
<u>Cleveland Ironstone</u>	F.Hall
<u>Craven</u>	J.M.Dickinson.
<u>Greenhow</u>	W.Walton
<u>Merryfield</u>	W.Walton.
<u>MINING - COAL</u> (Bradford,Yks.)	P.D.Lodge.
<u>MINING (Metalliferous)</u>	
<u>Common Practice of</u>	J.Brooke.
<u>Engineering</u>	J.R.Foster-Smith
<u>Financial History</u> (Cornwall,Devon & Somerset)	J.Brooke.
<u>General</u>	R.J.Bater:F.Hall:J.C.Wade
<u>Lake District</u>	J.D.J.Wildridge.
<u>Mendip</u>	R.J.Bater
<u>North Wales</u>	P.J.Appleton.
<u>Geology - General</u>	J.R.Foster-Smith
<u>History-</u> Craven Mines	J.M.Dickinson.
Cornwall	R.Bayles:J.Brooke.
Devon	R.Bayles:J.Brooke
Northern England	J.R.Foster-Smith
North Wales	P.J.Appleton.
Somerset	J.Brooke.
<u>Sources of Information on Mining</u> <u>& Ancillary Trades</u>	J.Brooke.
<u>NORTHERN CAVERN & MINE RESEARCH SOCIETY</u>	
<u>Library</u>	Mrs. M.G.Wood
<u>Publications</u>	D.T.Richardson.
<u>Records</u>	J.M.Dickinson.
<u>PALAEONTOLOGY -Fossil Mammals</u>	Dr.A.J.Sutcliffe
<u>PETROLOGY</u>	R.H.Mitchell
<u>PHOTOGRAPHY</u>	D.Joy.
<u>PREPARATION & PRESENTATION of REPORTS</u>	D.Joy
<u>SPELEOLOGY of N.WALES</u>	P.J.Appleton.
<u>WATER ANALYSIS</u>	D.T.Richardson.

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NORTHERN CAVERN & MINE RESEARCH SOCIETY

SYLLABUS - 1965

April 3/4th. CONONLEY FIELD MEET Organiser: J.E.Holding, 13, Ryelands Street, Crosshills, Keighley, Yorks.

Sat. 3rd. Apl. Afternoon: Ramble round area - assemble 2.30 p.m. New Inn, Cononley.

Sat. 3rd. April Evening: Talk and slide show - Brick Hall Inn, Sheep Street, Skipton. Members invited to bring slides as well. Cononley slides will be shown first.

Sun. 4th. April Assemble 10.30 a.m. New Inn, Cononley. Visit Smelt Mill site; Nethergill to mines proper: Proposed to ladder Mason's shaft in case anyone wishes to go underground. Visit East & West ends of mine on surface.

Visit Raygill fissure; Park Head Quarry and Cowling trial mine level. (A similar tour will be undertaken on Sat. afternoon)

Hotels in Area: Devonshire Hotel, Newmarket Street, Skipton, Yorks.
Midland Hotel, Broughton Road, Skipton, Yorks.

SUNDAY 11th. April General Meeting, Miners Arms, Greenhow. 2.30 p.m.

APRIL 24/25th. WENSLEYDALE FIELD MEET Organiser: J.C.Wade, 14, Branch Road, Skipton, Yorks.

Sat. 24th. Apl. Social evening at the Inn at Carperby - numbers permitting.

Sund. 25th. Apl. Assemble 10.30 a.m. at the junction of A 684 Hawes-Leyburn road and Carperby-Ayesgarth Falls road.

Dry Weather Venue: Tour of Apedale. 1" O.S. Map No. 90 - 011950

Wet Weather Venue . Exploration of two mines near Butterset, Hawes. Ref: 1" O.S. Map Sheet 90 : 905.885.

Organiser will advise on suitable hotels.

SUNDAY 30th. May. CRACKPOT CAVE FIELD MEET Organiser: R.G.Guthrie, "Hawthorn House", 186, Station Road, Billingham, Co. Durham.

Assemble 10.30 a.m. at the Summer Lodge road junction above Crackpot Cave on the Askrigg-Reeth road. This allows for a three mile car trip along the watershed where there are three very interesting points of water routing to discuss. A trip down Crackpot Cave will follow. Late arrivals please note our vehicles will never leave the Askrigg-Reeth road so the party can be easily joined. Estimated time of dispersal 5 p.m

Anyone wanting to stay overnight on Saturday - Mr. Guthrie will advise on accomodation.

SYLLABUS 1965

(continued)

SUNDAY 13th. June General Meeting, Miners Arms, Greenhow 2.30.p.m.

JUNE 26/27th. RECORDS EVENING and GREENHOW FIELD MEET

Organiser: J.M.Dickinson, "Thornlea", 8, Cedar Grove Road, Sutton-in-Craven, Keighley, Yorks.

SAT. 26th. June Records evening at 8, Cedar Grove Road, Sutton.

Sund. 27th. June Assemble 1 p.m. at the Miners Arms, Greenhow.
Tour of the mines of the Merryfield area, Greenhow.

Hotels in the Area Devonshire Hotel, Newmarket Street, Skipton.
Midland Hotel, Broughton Road, Skipton.

Private Accomodation Mr. & Mrs A.C.Harker, "Lythe House", Hebden Road, Grassington, Skipton, Ys.

SUNDAY 19th. September General Meeting, Miners Arms, Greenhow. 2.30 p.m.
Please note this will be the last General Meeting before the Annual General Meeting.

SEPTEMBER 25/26th. Mr. J.D.J.Wildridge has been approached with a view to arranging a meet to mines in the Lake District. Details will be circulated as soon as they are available.

SATURDAY 16th. October Annual General Meeting and Annual Dinner.
Venue to be announced.

SUNDAY 17th. October It is hoped to arrange a local meeting which will be of interest to all. Venue and details later.

OCTOBER 30/31st. ANALYTICAL METHODS EVENING and ALUM POT AREA FIELD MEET.

Organiser D.T.Richardson, 5, Calton Terrace, Carleton Road, Skipton, Yks.

Sat. 30th. Oct. 7. p.m. Brick Hall Inn, Sheep Street, Skipton.

Demonstration of collecting equipment, instruments for the determination of p.H., humidity, temperature, calcium and magnesium hardness of water, etc.
Slide show of the more interesting features of the Alum Pot area.

(continued)

Sat. 31st. Oct. Assemble Alum Pot lane 10.30 a.m. General tour of the area with underground visits to some of the lesser known caves. All the caves are, by the way, very wet. Alum Pot will NOT be descended. Demonstration of in the field determinations of p.H., humidity, etc.

Hotels (for Saturday Night)

Devonshire Hotel, Newmarket Street, Skipton.
Midland Hotel, Broughton Road, Skipton.

SPECIAL NOTICE

It is very important that the "INTENTION TO ATTEND" notices are sent to the organisers of the various functions as arrangements have to be made for the lectures etc. Please send the notices to the organisers by the time specified. Organisers will attempt to answer any queries you may have about the meets.

PLEASE NOTE whereas the General Meetings are for members of the Society ONLY the Field Meets are open to anyone - you are asked to introduce friends, members of other organisations to these meets.

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NORTHERN CAVERN & MINE RESEARCH SOCIETY

MEMBER'S INDIVIDUAL PROJECTS

D.T. Richardson, 5, Calton Terrace, Carleton Road, Skipton, Yks.	Alum Pot Area
D.M. Judson, "Naresfield", Thornhill Road, Steeton, Keighley, Yks.	Cave Extension at Mongo Gill.
P.D. Lodge, 11, Ashtree Avenue, Thornton, Bradford, Yorks.	Coal Mines in Bradford area.
J.E. Holding, 13, Ryelands Street, Crosshills, Keighley, Yorks.	Cononley Lead Mines
J.D.J. Wildridge, "View Point", Ellerbeck Lane, Workington, Cumb.	Mines in the Alston Block.

(continued)

MEMBER'S INDIVIDUAL INTERESTS

(continued)

J.M.Dickinson, "Thornlea", 8, Cedar Grove Road, Sutton-in-Craven, Keighley, Yorks.	Mines at Greenhow, Yorks. and Rossendale and District.
✓ R.S.Harker, c/o Mrs.Cook, Corn View, Pendeen, Penzance, Cornwall	Mines in Cornwall.
P.J.Appleton, 73, Mold Road, Wrexham, Denbig.	Mines and Caves in North Wales.
J.G.Gutrie, "Hawthorn House" 186, Station Road, Billingham, Co.Durham.	Mines and Caves in Swaledale.
J.C.Wade, 14, Branch Road, Skipton, Yorks.	Mines and Caves in Wensleydale
A.R.Nichols, c/o Mr. & Mrs A.C. Harker, "Lythe House", Hebden Road, Grassington, Skipton, Yorks.	Modern Mineral Dressing Proceedure in the North of England.
J.E.Freeman "Sunnyside", 35, York Road, Driffield, Yorks.	Rosedale Ironstone Mines.

MEMBERS INTERESTED IN KNOWING MORE ABOUT THE ABOVE PROJECTS
SHOULD GET IN TOUCH WITH THE PERSON CARRYING
OUT THE WORK.

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LIST OF MEMBERS 1965
AS ON THE 6th.MARCH 1965.

Peter J.APPLETON	73,Mold Road,Wrexham,Denbighshire
James M.ASHWORTH	Low Hall Cottage,Appletreewick,Skipton,Yorks.
Robert J.BATER	40,Thornleigh Road,Horfield,Bristol,7
Russel BAYLES	"Teuthill",Frodsham,Warrington,Lancs.
Christopher F.BLACKWELL	Beech House Cottage,Langbar,Ilkley,Yorks.
Justin BROOKE	Kennet End,Harrow Park,Harrow-on-the-Hill,Middlesex
Maurice BUTTERFIELD	High Gate,Green Lane,Glusburn,Crosshills,Keighley,Yks.
Robert T.CLOUGH,A.R.I.B.A., F.S.A.(Scot.)	"Stoneleigh House",Ferncliffe Drive,Utley,Keighley,Yorks.
Leonard B.C.COOK	"Routhorpe",Bainton Cross Roads,Bainton,Driffield, Yorkshire.
Robert V.DAVIS	8,Blakehill Avenue,Bradford,2,Yorks.
John M.DICKINSON	"Thornlea",8,Cedar Grove Road,Sutton-in-Craven, Keighley,Yorkshire.
James R.FOSTER-SMITH, F.G.S.,M.I.M.M.	The Old Rectory,Middleton-in-Teesdale, County Durham.
John E.FREEMAN	"Sunnyside",35,York Road,Driffield,Yorkshire.
David M.GOTH A.M.I.I.E.	"Schönerwald",Deer Park Lane,Hornby,Nr.Lancaster, Lancashire.
Mrs. Jessie GUTHRIE	"Hawthorn House", 186,Station Road,Billingham,Co. Durham.
Robert G.GUTHRIE	"Hawthorn House" 186,Station Road,Billingham, County Durham.
Frank HALL, B.A.	c/o 7,Belle Grove Terrace,Spittal Tongues, Newcastle-upon-Tyne,2,Northumberland or/ c/o Department of Anthropology,University of Newcastle-upon-Tyne,11,Sydenham Terrace,Newcastle-upon-Tyne,1,Northumberland.
Colin H.HAMER	41,Roper Avenue,Leeds,8,Yorks.
Roger S.HARKER,B.Sc.	c/o Mrs Coak,Carn View,Pendeen,Penzance,Cornwall.
Robert H.HEWITT	68,Gosforth Road,Seascale,Cumberland.
John E.HOLDING	13,Ryelands Street,Crosshills,Keighley,Yorks.
William J.HOUSTON	"Burnham",19,Park Road,Milford-on-Sea,Lymington, Hampshire.
Sydney H.JACKSON	16, Chapel Street,Calverlay,Pudsey,Yorkshire.
David A.W.JOY	Holebottom,Hebden,Skipton-in-Craven,Yorkshire (after the 27th. March 1965)
David M.JUDSON	"Naresfield",Thornhill Road,Steeton,Keighley,Yorks.
Wallace J.KEAY	"Wynbank",17,Westfield Crescent,Riddlesden,Keighley, Yorks.
Miss Nellie KIRKHAM	7,Abbots Way,Newcastle,Staffs.
Philip D.LODGE	11,Ashtree Avenue,Thornton,Bradford,Yorkshire.
E.T.MESSENGER,Grad. R.I.C.	Site 26,Kiln Green,High Harrington,Workington, Cumberland.
George E.METCALFE	"Rosebank" Hebden,Skipton,Yorkshire.
Roger H.MITCHELL,B.Sc.	Mineralogisk-Geologisk Museum,Sargst 1, Oslo,Norway.
John MOON,F.G.S.	3,Mill Lane,Distington,Nr.Workington,Cumberland.

LIST OF MEMBERS - 1965 (continued)

Aldred R. NICHOLS c/o Mr. & Mrs A.C. Harker, "Lythe House", Hebden Road,
Grassington, Skipton, Yorks.
Dr. Arthur RAISTRICK, M.Sc., F.G.S. Holme Croft, Linton, Skipton, Yorks.
George M. RENSHAW National Provincial Bank House, Queen Street, Morley,
Leeds, Yorkshire.
Douglas T. RICHARDSON, A.R.I.C. 5, Calton Terrace, Carleton Road, Skipton, Yks.
Martin ROXBURGH c/o 9, Weatherhead Place, Silsden, Keighley, Yorks.
Dr. Antony J. SUTCLIFFE c/o Department of Palaeontology, British Museum,
(Natural History), Cromwell Road, London S.W.7
Miss Margaret A. TEMPLEMAN (Home) 27, Cottage Grove, Clacton-on-Sea, Essex.
or Coleg Harlech, Harlech, Merionethshire.
Robert M. THORNTON 89, Headingley Mount, Leeds, 6, Yorks.
John C. WADE 14, Branch Road, Skipton, Yorkshire.
Frederic C. WALKER Bunkers Hill, Burnsall, Skipton, Yorkshire.
Kenneth WALLS, A.C.C.S., 33, Gledhow Avenue, Roundhay, Leeds, 8, Yorkshire.
Raymond WALLS 33, Gledhow Avenue, Roundhay, Leeds, 8, Yorkshire.
William WALTON 20, Dragon View, Skipton Road, Harrogate, Yorkshire.
James H. WHITTAKER 101, Greenhead Lane, Utley, Keighley, Yorkshire.
John D. WILCOCK, B.A., B.Sc., Grad. I.E.E. 10, Beech Grove, Clough Hall, Kildsgrove,
Stoke-on-Trent, Staffs.
John D. J. WILDRIDGE "View Point", Ellerbeck Lane, Workington, Cumberland.
Mrs. Marion G. WOOD, B.A. 12, Westville Avenue, Ilkley, Yorkshire.
Miss Elizabeth I. WOOD 12, Westville Avenue, Ilkley, Yorkshire.
Alfred E. CANNELL 7, Birch Road, Garstang, Nr. Preston, Lancs.
Mrs. Mary CANNELL 7, Birch Grove, Garstang, Nr. Preston, Lancs.
Philip C.S. SCHOFIELD 3, Elswick Road, Leyland, Nr. Preston, Lancs.

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NORTHERN CAVERN & MINE RESEARCH SOCIETY

OFFICERS 1965

President: D.T.Richardson, A.R.I.C. 5, Calton Terrace, Carleton Road,
Skipton, Yorkshire.

Vice-President: P.C.S.Schofield, 3, Elswick Road, Leyland, Nr. Preston,
Lancashire.

Honorary Secretary K.Walls, A.C.C.S., 33, Gledhow Avenue, Roundhay,
Leeds, 8, Yorkshire.

Honorary Treasurer: J.E.Freeman, "Sunnyside", 35, York Road, Drifffield,
Yorkshire.

Honorary Recorder: J.M.Dickinson, "Thornlea", 8, Cedar Grove Road,
Sutton-in-Craven, Keighley, Yorkshire.

Honorary Assistant Recorder: J.E.Holding, 13, Ryelands Street, Crosshills,
Keighley, Yorkshire.

Honorary Librarian: Mrs. M.G.Wood, B.A., 12, Westville Avenue, Ilkley,
Yorkshire.

Honorary Biological Recorder: P.C.S.Schofield, 3, Elswick Road, Leyland,
Nr. Preston, Lancashire.

Honorary Tackle Manager: A.R.Nichols, c/o Mr. & Mrs A.C.Harker, "Lythe
House", Hebden Road, Grassington, Skipton, Yorks.

Honorary Caving Officer: M.Thornton, 89, Headingley Mount, Leeds, 6, Yorks.

Honorary Editor: D.T.Richardson, A.R.I.C. 5, Calton Terrace, Carleton
Road, Skipton, Yorkshire.

Cave Research Group Committee Representative: J.D.Wilcock, B.A., B.Sc.,
Grad.I.E.E., 10, Beech Drive, Clough Hall, Kids Grove,
Stoke-on-Trent, Staffordshire.

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