

# DUDLEY GEOLOGICAL SOCIETY'S JOURNAL.

ISSUED BY THE DUDLEY AND MIDLAND GEOLOGICAL AND SCIENTIFIC SOCIETY  
AND FIELD CLUB.

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No. 1.

JULY 7th, 1864.

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## NOTICE TO MEMBERS.

*The Committee have determined to issue, certainly during the Summer Months, and when necessary in the Winter, a Monthly Journal for the special purpose of noticing matters connected with the Field Meetings. The Journal will be published the first week in every month for which it is issued, and will contain particulars of Meetings, &c. The Transactions (to ORDINARY MEMBERS) will be published every two months. The next number will be ready by September 1st. The Transactions will be uniform in size &c. with the Journal, and the two combined will form a complete record of the Society's operations.*

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## CANNOCK CHASE FIELD MEETING.

THE First Field Meeting of the season was held at Cannock Chase, on Tuesday, June 21st, under the most favourable circumstances. The weather was delightfully fine and breezy, and upwards of fifty Members and friends, including a large proportion of ladies, assembled on the occasion. Amongst those present we noticed the Revds. E. H. L. Noott, (Dudley), J. Compson, (Wyrley), J. W. Bain, (Bilston), J. Longman, Messrs. H. Beckett and party, J. H. Cooksey and party, J. Fraser, S. S. Mander and party, L. P. Capewell, H. Johnson, S. Bowkley, W. Madeley, J. Cope, E. Pugh, C. Gray, C. Ketley, S. Allport, J. Rabone, J. U. Fellows, J. Piggott, J. T. Hatton, J. Lindop, R. Farley, J. Jones, (Secretary), &c., &c. The first point of interest was the vicinity of the large Norton reservoir, where some excellent botanical ground was found. Here the botanists, under the leadership of Dr. Fraser, made a long halt and secured no small number of characteristic plants.

The following account of the visit to the Cannock Chase Collieries has been kindly supplied by a Member of the party:—

“ After leaving the Brownhills Railway Station, (which is located on the Triassic Formation,) the main body of the Members and friends, conducted

by Vice-President Beckett, crossed the great Eastern Fault of the South Staffordshire Coal Field, and, after traversing the more ancient collieries at Brownhills, (where the Nestor of our Coal Masters, William Hanbury Sparrow, Esq., first embarked in that trade, which, by sound judgment, skill, and prudence has raised him to honour and affluence), entered the extensive and justly celebrated Cannock Chase Colliery, held by Messrs. M<sup>c</sup>Clean and Co. under lease from the Marquis of Anglesea. Here, by the kind permission of the Proprietors, the party were met and welcomed by Mr M<sup>c</sup>Ghie, the intelligent local Manager, who also escorted them through the several plants, and gave a lucid description of the Company's past and present proceedings.

"As the Cannock Chase Colliery is certainly one of the best conducted in South Staffordshire, a brief description thereof will be interesting. The area of minerals demised to the Company, is 2200 statute acres, and the minimum royalty is understood to be £5000 per annum. The winter yield of coal is 2000 tons a day, on an average. An amount so enormous necessarily involves ample facilities for transit, as it is entirely a Sale Colliery. The old Hammerwich canal, (which reaches the embankment of the Norton reservoir), being of course insufficient, it was deemed expedient to open a direct communication with the South Staffordshire Railway; and as Mr. M<sup>c</sup>Clean was formerly the lessee of that important line, he possessed every facility for obtaining so desirable a junction of interests. The Company therefore retain good canal accommodation for local traffic; whilst the Railway branch, which is connected with the four extensive plants, and admirably ramified with convenient landing and loading stages, affords a ready outlet for markets in all parts of the kingdom. The Geological Society also found the Branch Railway a novel and rapid mode of communication from one Colliery to the others in succession during their inspection.

"The Coals of the district dip to the west; and thus many of the Wyrley and Essington seams crop out to the surface before reaching the Brownhills. The Coals wrought by the Company are the Yard Coal, Bass Coal, Shallow Coal, and Deep Coal; the two former however are, at present, rather limited in extent of workings although of useful quality. The value of the Shallow and Deep Coals is well known and widely appreciated for household purposes, indeed they are often brought into competition with the celebrated coals of Denbighshire. Mr. Beckett appears to have investigated this district minutely, and he is of opinion, that all the Brownhills Coals will eventually be found at Wyrley; but at a considerable depth in that side of the Coal Field.

"There are four independent Plants in operation in the Cannock Chase Colliery, viz. Nos. 2, 3, 4, and 5. No. 2 has an upright high-pressure engine, with 30-inch cylinder, and 5-foot stroke; with sundry small engines for pumping, saw mill, and Blacksmiths' fan blast. Nine boilers are attached.

At No. 3 we found a coupled horizontal high-pressure engine, with 25-inch cylinder and 5-foot stroke; also a pumping engine, with 36-inch cylinder and 5-foot stroke. Seven boilers are connected with this plant. The Shafts (which were descended by some of the party,) are 13 feet 6 inches diameter; average depth to Deep Coal, 165 yards. Another engine is in progress of erection at this plant. No. 4 has a high-pressure engine, with cylinder 18 inches in diameter, and 4-foot stroke, with two boilers. This apparatus has somewhat of a South Staffordshire primitive look about it! No. 5 has a pair of horizontal coupled engines, agreeing in character with No. 3. It has 4 boilers erected, and two more in course of erection. With the exception of No. 4, all the machinery is bright and in admirable order. Messrs. Thornywell and Warham were the Contractors for engines. Buildings are massive and good. Gas is being introduced into the pits as well as the surface. As a whole, the arrangements connected with this Colliery both above and below ground are unexceptionable. The greatest length of underground haulage is about three quarters of a mile. The Butty system—the curse of South Staffordshire, is studiously avoided. 1500 men and boys are employed. No allowance beer is introduced at the works, and no contractor is allowed to keep a Public-house.

“In addition to a Colliery well developed in all its scientific details, it is pleasing to add, that the spirited Proprietors are fully alive to the moral, educational, and religious improvement of their people. Good Schools with a Free Library attached have long been provided, and are working well. A noble Church with residence for the Incumbent are also rapidly approaching completion, and will doubtless prove a blessing to this interesting community.”

The party next proceeded across the Chase to Castle Ring in Beaudesert Park, where some interesting ancient remains, generally supposed to be Roman, were examined. The next point of interest was the section of coal measures laid bare in cutting a branch mineral railway to the Hednesford Collieries. The boggy ground adjoining the tramway afforded the botanists many additional plants, including some beautiful ferns. The works connected with the Hednesford Collieries were next visited, and particular attention was devoted to the new sinkings which are being made in connection with the Colliery Company recently established in connection with the Mines of Mr. Piggott. Shortly after five o'clock the members all met at the Cross Keys Inn, Hednesford, where a substantial Tea was provided, and, it is unnecessary to add, thoroughly enjoyed. Several matters connected with the Llangollen Excursion were then discussed, after which a Paper was read by the Secretary, Mr. Jones, on “Organisation in Field Club Work.”

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*The following is a List of the Members from whom returns have been received. Those who have not yet signified to which Class of Members they wish to belong are requested to communicate with the Secretary.*

Badley, Dr. (Life Member) ... ..	Dudley
Bailey, Samuel ... ..	The Pleck
Bailey, T. Abishai ... ..	Ocker Hill
Baker, J. P. ... ..	Wolverhampton
Baker, J. W. ... ..	Birchills
Barnett, W. ... ..	Coseley
Bateman, John ... ..	Dudley
Beckett, Henry, F.G.S. ... ..	Wolverhampton
Beddow, John ... ..	Moxley
Bennitt, Captain (Life Member) ... ..	Stourton
Bennitt, Joseph (Life Member) ... ..	Ashwood
Blackwell, S. H., F.G.S. ... ..	Dudley
Bowkley, Silas, F.G.S. ... ..	Batman's Hill
Bowkley, Alfred ... ..	Batman's Hill
Brettell, Thomas ... ..	Dudley
Bromley, James ... ..	Moxley
Browne, Rev. J. C., D.C.L. ... ..	Dudley
Browne, Ralph ... ..	Wednesbury
Burton, Henry ... ..	Dudley
Capewell, L. P. ... ..	Dudley
Cartwright, C. (Life Member) ... ..	Dudley
Cartwright, Rev. W. H. (Life Member)	
- Cooksey, Joseph ... ..	Westbromwich
Cooksey, J. H. ... ..	Westbromwich
Cope, J. ... ..	Pensnett
Collis, W. B. ... ..	Stourbridge
Cochrane, T. ... ..	Dudley
Dudley, Right Honourable Earl of ... ..	Witley Court
Davis, William ... ..	Bilston
Dickenson, S. ... ..	Pennfields
England, George ... ..	Dudley
Fellows, Titus ... ..	Wyrley
Fellows, J. U. ... ..	Walsall
Finch, John ... ..	Dudley
Fletcher, Captain, F.R.S., F.G.S. ... ..	Lawnswood
Gibbons, Benjamin ... ..	Stourport
Gibson, Rev. M. ... ..	Dudley
Grainger, Edward ... ..	Dudley
Haden, William ... ..	Dudley
Haden, W. H. ... ..	Dudley
Hayward, W. H. ... ..	Oldbury
Higgs, T. F. ... ..	Dudley
Hollier, E. ... ..	Dudley
Horton, G. E. ... ..	Dudley
Hopkins, John ... ..	Dudley Port
Homer, F. A. ... ..	Sedgley
Hunt, J. P. ... ..	Corngreaves

Jenks, W. ... ..	... Upper Penn
Jones, Edward ... ..	... Handsworth
Johnson, H. ... ..	... Dudley
Johnson, Henry, Jun. ... ..	... Dudley
Ketley, Charles ... ..	... Dudley
Lyttelton, Right Honourable Lord ... ..	... Hagley
Latham, John ... ..	... Dudley
Lees, D. W. ... ..	... Willenhall
Lloyd, Sampson ... ..	... Wednesbury
Lloyd, S. Z. ... ..	... Wednesbury
Lloyd, Samuel ... ..	... Wednesbury
Lloyd, Wilson ... ..	... Woodgreen
Lloyd, E. R. ... ..	... Albion Tube Works
Mander, C. B. ... ..	... Wolverhampton
Madeley, W. ... ..	... Tiled House
Macdonald, J. ... ..	... Moat Colliery
Marsh, Edwin ... ..	... Burnt Tree
Marten, Edwin ... ..	... Stourbridge
McGhie, J. Corngreaves ... ..	... Corngreaves
McGhie, Thomas ... ..	... Cannock Chase Colliery
Mills, Samuel ... ..	... Dudley
Millward, William ... ..	... Dudley
Parton, Thomas ... ..	... Willenhall
Peacock, David ... ..	... Tipton
Perry, F. C. ... ..	... Penkridge
Pearse, J. O. ... ..	... Dudley
Renaud, E. J. ... ..	... Dudley
Roper, H. C. ... ..	... Dudley
Roper, Thomas ... ..	... Bilston
Rutter, Mrs. ... ..	... Wolverhampton
Shelley, E. ... ..	... Wolverhampton
Smallman, E. ... ..	... King's Hill
Smallman, Jos. ... ..	... Burnt Tree
Smith, E. F. ... ..	... Dudley
Smith, Frederick ... ..	... Wordsley
Solly, James ... ..	... Tipton
Spruce, Thomas ... ..	... Pensnett
Spruce, Samuel ... ..	... Smethwick
Stokes, Joseph ... ..	... Dudley
Strongitharm, H. H. ... ..	... Pelsall
Tarratt, H. W. ... ..	... London
Taylor, George ... ..	... Dudley
Terry, E. ... ..	... Dudley
Thompson, George ... ..	... Hill Top
Twamley, Miss ... ..	... Edgbaston
Vernon, H. F., M.P. ... ..	... Hanbury Hall
Ward, Henry ... ..	... Wolverhampton

Westley, Charles H.	...	...	...	...	...	Dudley
Westwood, W. H.	...	...	...	...	...	Harts Hill
Whitley, Joseph	...	...	...	...	...	Corngreaves
Whitmore, J.	...	...	...	...	...	Dudley

### FIELD CLUB MEMBERS.

*Field Club Members wishing to become Ordinary Members are requested to communicate with the Secretary.*

Allport, S.	...	...	...	...	...	Birmingham
Aulton, A. W.	...	...	...	...	...	Walsall
Bankes, Miss	...	...	...	...	...	Dudley
Banks, E.	...	...	...	...	...	Tettenhall
Bain, Rev. J. W.	...	...	...	...	...	Bilston
Bailey, William	...	...	...	...	...	Oaken
Beckett, Miss	...	...	...	...	...	Upper Penn
Beckett, Miss M. A.	...	...	...	...	...	Upper Penn
Beckett, Henry, Jun.	...	...	...	...	...	Upper Penn
Beckett, Percy	...	...	...	...	...	Upper Penn
Bernard, E.	...	...	...	...	...	Stourbridge
Bidwell, Henry	...	...	...	...	...	Albrighton
Biden, Henry	...	...	...	...	...	Brierley Hill
Bourne, W.	...	...	...	...	...	Dudley
Bowlby, Rev. H. B.	...	...	...	...	...	Oldbury
Bowen, J.	...	...	...	...	...	Bilston
Brooke, W. H.	...	...	...	...	...	Dudley
Britten, Charles	...	...	...	...	...	Wednesbury
Brigstocke, Dr.	...	...	...	...	...	Wolverhampton
Burne, Thomas	...	...	...	...	...	Wolverhampton
Buck, R. C.	...	...	...	...	...	Dudley
Cartwright, Mrs.	...	...	...	...	...	Leasowes
Cartwright, James	...	...	...	...	...	Dudley
Cartwright, Henry	...	...	...	...	...	Dudley
Checkley, Samuel	...	...	...	...	...	Pelsall
Cooksey, Miss	...	...	...	...	...	Westbromwich
Cooksey, Miss E. A.	...	...	...	...	...	Westbromwich
Colman, J. U.	...	...	...	...	...	Wolverhampton
Cooper, William	...	...	...	...	...	Wolverhampton
Compson, Rev. J.	...	...	...	...	...	Great Wyrley
Dalton, Rev. George	...	...	...	...	...	Wolverhampton
De Lessert, C. G.	...	...	...	...	...	Wolverhampton
De Lessert, A.	...	...	...	...	...	Wolverhampton
Duignan, W. H.	...	...	...	...	...	Walsall
Evans, Rev. D.	...	...	...	...	...	Dudley
Evans, Sebastian,	...	...	...	...	...	Highgate
Farley, Reuben	...	...	...	...	...	Great Bridge
Fellows, Miss	...	...	...	...	...	Wolverhampton
Fellows, F. P.	...	...	...	...	...	Wolverhampton
Fennell, Dr.	...	...	...	...	...	Cradley
Fisher, Thomas	...	...	...	...	...	Pennfields
Fisher, J. W.	...	...	...	...	...	Walsall

Fisher, W. H. ... ..	... Oak Farm
Flewker, W. ....	... Pennfields
Fleeming, Miss ... ..	... Pennfields
Fleeming, Miss M. ... ..	... Pennfields
Fleeming, W. ... ..	... Pennfields
Ford, James ... ..	... Pennfields
Fraser, Dr. ... ..	... Wolverhampton
Frost, M. ... ..	... Wood Green
Frost, John ... ..	... Wood Green
Gay, Rev. W. ... ..	... Pennfields
Gill, W. ....	... Wednesbury
Gray, Charles ... ..	... Bilston
Grier, Rev. J. W. ... ..	... Amblecote
Griffin, W. D. ... ..	... Wolverhampton
Griffin, G. R. ... ..	... Wolverhampton
Green, J. C. ... ..	... Dudley
Green, J. ... ..	... Westbromwich
Hambleton, Joseph ... ..	... London
Hatton, J. T. ... ..	... Wyrley
Hamp, John ... ..	... Wolverhampton
Haines, Job ... ..	... Tipton
Hayes, J. E. ... ..	... Wolverhampton
Hemming, W. T. ... ..	... Redditch
Heafield, Rev. J. ... ..	... Bilston
Hill, Samuel ... ..	... Chillington
Higham, Frederick ... ..	... Wolverhampton
Higham, George ... ..	... Wolverhampton
Hodgetts, C. B. ... ..	... Congreaves
Horton, F. C. ... ..	... Wolverhampton
Hough, J. ... ..	... Wrottesley
Holcroft, Charles ... ..	... Brierley Hill
Hollier, E. J. ... ..	... Dudley
Horton, John ... ..	... Handsworth
Houghton, John H. ... ..	... Dudley
Houghton, Robert ... ..	... Dudley
Iles, Rev. J. H. ... ..	... Wolverhampton
Jabet, George ... ..	... Handsworth
Jebb, George ... ..	... Shrewsbury
Ketley, J. ... ..	... Edgbaston
King, C. H. ... ..	... Wolverhampton
Laxton, W. H. ... ..	... Dudley
Law, W. C. ... ..	... Wolverhampton
Lea, John, Jun. ... ..	... Wolverhampton
Lea, William, Jun. ... ..	... Wolverhampton
Lewis, Rev. George ... ..	... Dudley
Lowe, G. B. ... ..	... Dudley
Longman, Rev. Dr. ... ..	... Sedgley Park
Marshall, John ... ..	... Wolverhampton
Manley, J. ... ..	... Westbromwich
Mander, S. S. ... ..	... Wolverhampton

Marsh, Samuel	...	...	...	...	...	Oldbury
M <sup>c</sup> Gahren, Rev J.	...	...	...	...	...	Dudley
M <sup>c</sup> Clatchley, A.	...	...	...	...	...	Wednesbury
Millward, John	...	...	...	...	...	Stourbridge
Moore, Rev. Canon	...	...	...	...	...	Sedgley Park
Newman, J. W.	...	...	...	...	...	Cannock
Nesbitt, F.	...	...	...	...	...	Wolverhampton
Noott, Rev. E. H. L.	...	...	...	...	...	Dudley
Owen, J.	...	...	...	...	...	Dudley
Orford, C. W.	...	...	...	...	...	Lifford
Paley, Rev. F.	...	...	...	...	...	Penn
Perry, George	...	...	...	...	...	Stourbridge
Piggott, John	...	...	...	...	...	Cannock
Pickett, Jacob	...	...	...	...	...	Wolverhampton
Powell, Thomas	...	...	...	...	...	Wolverhampton
Powell, Thomas	...	...	...	...	...	Tipton
Poole, Edwin	...	...	...	...	...	Dudley
Pugh, Edward	...	...	...	...	...	Bilston
Puddicombe, A.	...	...	...	...	...	Wolverhampton
Rabone, J.	...	...	...	...	...	Birmingham
Roberts, W.	...	...	...	...	...	Tipton
Robinson, J. R.	...	...	...	...	...	Walsall
Rollason, Thomas	...	...	...	...	...	Westbromwich
Round, T. Hill	...	...	...	...	...	Tipton
Rogers, John	...	...	...	...	...	Dudley
Rogers, J. K.	...	...	...	...	...	Dudley
Rudge, Samuel	...	...	...	...	...	Dudley
Sellman, Samuel	...	...	...	...	...	Pennover
Shaw, R. E.	...	...	...	...	...	Tettenhall
Shedden, J. J.	...	...	...	...	...	Walsall
Simcox, Rev. T. G.	...	...	...	...	...	Smethwick
Silvester, William	...	...	...	...	...	Westbromwich
Silvester, Miss	...	...	...	...	...	Smethwick
Silvester, W.	...	...	...	...	...	Smethwick
Simpson, T.	...	...	...	...	...	Wolverhampton
Slade, Rev. J. J.	...	...	...	...	...	Netherton
Slater, Rev. Thos.	...	...	...	...	...	Coseley
Smith, Mrs.	...	...	...	...	...	Dudley
Smith, George	...	...	...	...	...	Dudley
Smith, John	...	...	...	...	...	Coseley
Smith, Henry	...	...	...	...	...	Kingswinford
Smith, Z. B.	...	...	...	...	...	Edgbaston
Southern, Thomas	...	...	...	...	...	Wednesbury
Sparrow, A.	...	...	...	...	...	Penn
Stone, Rev. J.	...	...	...	...	...	Capponfields
Steen, J.	...	...	...	...	...	Wolverhampton
Thompson, Rev. J. H.	...	...	...	...	...	Cradley
Timmins, J. F.	...	...	...	...	...	Dudley
Totty, Miss	...	...	...	...	...	Wolverhampton
Turner, T.	...	...	...	...	...	Tettenhall
Turton, Frederick	...	...	...	...	...	Wolverhampton



Twamley, Charles	...	...	...	...	...	London
Veall, J.	...	...	...	...	...	Wolverhampton
Waring, W.	...	...	...	...	...	Dudley
Walker, Dr.	...	...	...	...	...	Brierley Hill
Walker, Bernard	...	...	...	...	...	Wolverhampton
Wheeler, Charles	...	...	...	...	...	Wolverhampton
Whiteley, Rev. J.	...	...	...	...	...	Pedmore
Whyte, J.	...	...	...	...	...	Dudley
Willett, Rev. F.	...	...	...	...	...	Wolverhampton
Williamson, M.	...	...	...	...	...	Cannock Chase
Williams, Richard	...	...	...	...	...	Wednesbury
Wills, A. W.	...	...	...	...	...	Edgbaston
Wilks, Martin	...	...	...	...	...	Wolverhampton
Williscroft, J.	...	...	...	...	...	Dudley
Woodhouse, H.	...	...	...	...	...	Dudley
Wyley, A.	...	...	...	...	...	Handsworth

(Any errors or omissions in the above should be notified to the Secretary, as a supplementary list will be issued in next month's Number.)

## THE LLANGOLLEN FIELD MEETING.

The Field Meeting at Llangollen will be held on Thursday and Friday, July 14th and 15th, in connection with the Manchester and Liverpool Geological Societies. The romantic scenery of the Llangollen Vale,—the portico of North Wales,—and the interesting antiquarian, Geological, and Botanical features of the locality render this a most inviting place for a Scientific Meeting. The Denbighshire Coal Field extends to the entrance of the Valley, and at Cefn a fine section of Coal Strata is exposed in a cutting of the Llangollen branch railway. The Mountain Limestone skirts the northern side of the Vale, and is also well exposed in a series of quarries at the extremity of the hilly range forming its southern boundary. On the north side a wide stretch of Millstone Grit forms an elevated moorland in the direction of Minera. The strata in the immediate neighbourhood of Llangollen are the North Wales equivalent of the Wenlock Shale, (forming for the most part the Berwyn Hills) and the Bala group, well developed in the vicinity of Glyn Ceiriog. The following table shews the relative position of the various mea-

### Upper Coal Measures.

Millstone Grit.

Mountain Limestone.

Old Red Sandstone, supposed to be represented in the Valley near Eglewseg Rocks.

(Ludlow Rocks absent.)

Wenlock Shale.

(Llandoverly Beds absent.)

Bala Beds: Sandstone, Schists and Limestone, interstratified with felspathic ash and trap. These measures are the equivalents of the Caradoc group of Shropshire.

(Llandello and Lingula beds absent.)

Among the flowering plants may be found—*Listera ovata*, *Habenaria chlorantha* and *bifolia*, *Hypericum Androsæmum*, *Thalictrum minus*, *Pinguicula vulgaris*, *Anagallis tenella*, *Atrapa bella* *donna*, *Orobanche major*, *Carex pendula*, *Cynoglossum officinale*. Of ferns there are *Asplenium viride*, *Trichomanes*, and *Ruta muraria*, *Cistopteris dentata* and *regia*, *Blechnum boreale*, *Cryptogamma crispa*, *Lastrea Oreopteris* and *dilatata*, *Polystichum angulare* and *lobatum*, with other common varieties. *Lycopodium clavatum*, *L. Selago* and *L. alpinum* also occur.

Castell Dinas Bran, supposed to have been originally an ancient British fortress, is situated on a conical hill

600 feet above the Dee. From this point the geologist obtains a good illustration of the various formations;—the rounded Silurian hills;—the terraces of Mountain Limestone; the moorland of Millstone Grit;—the North Wales line of Coal Measures, and the Red Sandstone plains of Cheshire and Salop in the dim distance. The venerable ruins of Valle Crucis Abbey are situated in a pleasant valley north of Llangollen. The remains of the church are the most entire. The Abbey was built A.D. 1200, and was dissolved by Henry VIII. The Pillar of Eliseg is also an interesting ancient relic, supposed to commemorate the exploits of one of the lords of Dinas Bran, about the sixth century. The most noteworthy objects of general interest in the neighbourhood are Telford's fine Aqueduct over the Dee (1007 feet in length, 116 feet high) and Plas Newydd, once the residence of the "Ladies of Llangollen."

On the first day it is proposed to form two parties. The botanical section, of which Mrs. Bickerstaffe, Llangollen, has kindly undertaken the guidance, will proceed to that portion of the Eglewseg ridge, called "The World's End." The Geological and general Party will walk to the Flagstone Quarries, about two miles from Llangollen, and from thence by Valle Crucis Abbey to the Eglewseg Rocks, (Mountain Limestone) returning by Castell Dinas Bran to Llangollen. A cold collation will be prepared at the Hand Hotel, at five o'clock;—charge, 2s. each, exclusive of beer, &c. From Seven to Eight o'clock a Meeting will be held in the large room of the Hotel, when Papers will be read and Addresses delivered by Members of the several Societies. Sleeping accommodation at the Hand can be obtained at a charge of 2s. 6d. each person, including servants.

The second day will be devoted to visiting Llansantffraid, Glen Ceiriog, &c., where limestones, shales, and ash beds, of the Bala formation, are exposed in a fine section, and many fossils can be collected. D. C. DAVIES, Esq., of Oswestry, who is well acquainted with the geology of the district, has kindly

promised to accompany the Party, which will leave Llangollen at 9 a.m. A cold collation will be ready at the Hand at 3 o'clock, and at 4.15 p.m. the Return Train leaves Llangollen, arriving at Wolverhampton about Seven o'clock. Tickets available until Saturday night, may be obtained at Dudley and Wolverhampton on Thursday or Friday, on producing the Society's Card of Membership, at the ordinary fares for day tickets. Members returning the same day may obtain return tickets at single third class fares for the double journey. It is probable that better arrangements for those staying the two days may be made; but replies have not yet been received from the Company. The Train for Llangollen leaves Dudley 8.40; Wolverhampton, 9.10; arriving at Llangollen 11.50 a.m. Members intending to be present are requested to write *by return*, stating the number of their party, whether sleeping accommodation will be required at the Hand, and if so for what number. As there is only limited accommodation the Secretary has engaged twenty beds, and can secure a further number if necessary and notice is sent to him early.

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#### FIRST ORDINARY MEETING.

The First Monthly Meeting of Ordinary Members will be held at the Society's Rooms, Mechanics' Institute, Dudley, on Tuesday Afternoon, August 2nd, at Four o'clock, when the adjourned discussion on Mr. Kettle's Paper will take place. Each Member may introduce one friend.

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#### FIELD MEETING AT DUDLEY.

On Wednesday, August 3rd, there will be a Field Meeting at Dudley in connection with Warwickshire Naturalists' Club. Members will meet at the Society's Museum, at 12 o'clock, and will proceed from thence to the Wren's Nest, &c., returning to luncheon at the Dudley Arms Hotel, about 4.30. Members intending to take luncheon are requested to inform the Secretary by the end of this month.

## SUBSCRIPTIONS.

The Subscriptions for the current year were due on the 1st of May last, and may be remitted to the Secretary, or paid to the Treasurer, Mr. E. Grainger, Market Place, Dudley. *Cards of Membership will be sent with the receipts for subscriptions.* It is particularly requested that all arrears of Subscriptions be also forwarded.

## THE MUSEUM.

The Geological Museum is now open to Members free, on shewing their cards of Membership and on entering their names in the Visitors' Book. Application must be made to the Librarian, at the Mechanics' Institution, Dudley. The following Scientific Periodicals will be found on the table, for the use of Members:—Geological Magazine; Mining and Smelting Magazine; Quarterly Journal of Science; Popular Science Review; Transactions of Northern Institute of Mining Engineers; Intellec-

tual Observer; Quarterly Journal of the Geological Society. The Committee will be glad to receive donations of Fossils, &c., for the Museum, or of Books for the Library now in course of formation.

## MR. KETTLE'S PAPER.

The Paper read by Mr. Kettle before the Conference of Mine Agents, &c., April 13th, 1864, (subject, "The Yield of the Ten Yard Coal, and the best mode of increasing it, having regard to the safety and economy of working.") is now published. Ordinary Members receive a copy free, and Field Members may obtain it on application to the Secretary. To Non-Members the price is one shilling per copy.

*Communications for the Society should be addressed to the Secretary, The Trindle, Dudley; or if relating to the Museum, to the Honorary Curator, Mr. E. Hollier, Market Place.*

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