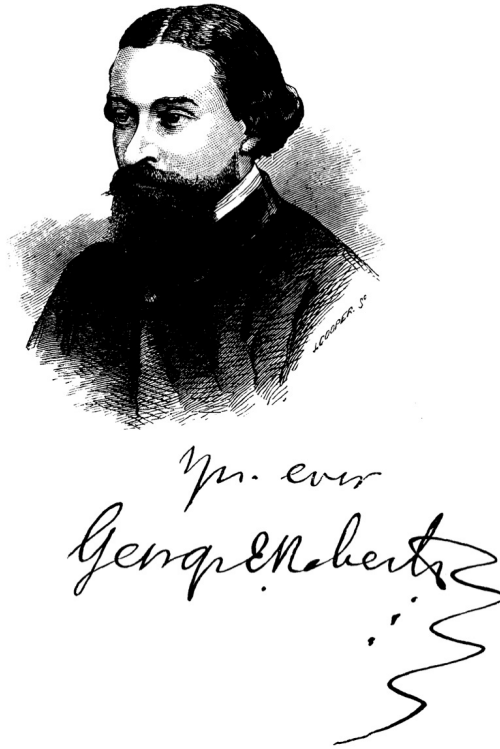


The Journal
of
George Edward Roberts (1831-1865)
for the period
8th January 1856 to 2nd August 1857



Kidderminster Draper, Natural Historian and Geologist
of
Shrubbery Cottage
Birmingham Road
Kidderminster

Transcribed by Bob Millward 2010

A Biographical Summary of George E Roberts

George Roberts was born in Birmingham in 1831 eldest son of Edward and Jane. The family moved to Kidderminster shortly after and he was baptised in St Mary's Church, Kidderminster on 11th Jan 1833. He died on the 21st December 1865 and is buried with his parents in St George's churchyard. The family lived in Shrubbery Cottage which now lies between the Holy Trinity School and the Presbytery for the church of St Ambrose in Birmingham Road.

Edward Roberts ran a Draper's business in the Bull Ring from the early 1830s until his death in 1856. The business was carried on successively by his wife and sons George and Frederick until it was sold to Mr C F Holder about 1887.

George Roberts had many interests beyond Drapery. He read widely was interested in the Arts and had a deep and knowledgeable interest in Natural History with a strong leaning towards Geology and Anthropology. He cultivated a wide circle of friends and contacts with whom he had long discussions and much correspondence. For one who worked in the family business, he seemed to spend an inordinate amount of time searching for fossils in quarries throughout Worcestershire and beyond.

A Fellow of the Geological Society he moved to London in 1860 when appointed Clerk to that Society. He was an inaugural member of the Anthropological Society of London in 1863 and later took on the position of Honorary Secretary. He was also scientific Editor of the 'Parthenon' during its existence.

Biographies published by these Societies record that he published a number of papers in Journals and magazines including: The Quarterly Journal of the Geological Society of London, the Geological magazine, the Intellectual Observer and Notes & Queries.

Important books local to the area of his upbringing include: 'The Valley of Habberley and Hill of Trimpley' (1857) and 'The Rocks of Worcestershire' (1860). Both are available in Kidderminster and other local libraries Library.

I am extremely grateful to Mrs Margaret Earnshaw of Darwin, Australia, a descendent of the Edwards family, for her generous donation of a family collection of books and notes by George Roberts to the Kidderminster & District Archaeological & Historical Society.

The note book, which is the subject of the present transcription, refers to a period in George Roberts' life when he was actively searching local quarries for fossils and noting geological features of the landscape whilst also making incidental observations on the occurrences of botanical species. There are many asides on topics as they were happening at the time: descriptions of national events, trips to Manchester (business) and London (Theatre) and political, religious, social and architectural happenings in Kidderminster.



[When transcribing the booklet I have tried to portray George's style, spelling and grammar as accurately as possible but have not attempted to maintain exact page layouts. Additional notes have been inserted in italic script. Monthly markers have been added to the text to aid time navigation. The 'Fleur de Lis' shown to the left is an enhanced copy of the embossed imprint that occurs throughout the booklet in the top corner near to the spine of most pages.]

Note Book. 1856.

January 1856

Tuesday Jan 8. To Cookley, Island Pool & Wolverley, calling on Edwards at latter place. Noted Epitaph in Churchyard which improves the celebrated "Pain was my potion" one by the third line reading,

"Groans was my diversion."

How akin vegetable life is to human, is well seen in the lower forms – Fungi & with no definite order of development are the lowest. Their very liberty of growth proves their debased character. Shall we not refer to a like s those members of the human family whose animus is ever Liberty of thought & action? "Let us be controlled by no laws, Divine or human." say they, and their freedom is their degradation. development

February 1856

Sunday Feb 17. Walked to Bewdley – saw Baugh respecting the Archæiepiscopal Seal of Cranmer in his possession. took notes of it for Mr. Gorham, who advertises in the "N&Q" for one.

Wed 20. Wrote to Rev^d C J Gorham on the Seal.

Fri 22. Letter in reply. Wrote to Baugh who brought the Borough Seal over. Sent it by post to Gorham as requested. Walked to Wolverley, called on Edwards.

Sunday Feb 24. Walked to Hall's Barn Quarry in afternoon. Sat with Mr. Henry Crane chatting of diverse things. Looked over the Quarry, and found in the newly-broken-into bed, (both in natural and geological position on the top of the Cornstone) abundance of Ichthyolites belonging to the Cephalaspides, The first ever found in the County. Loaded myself - and walked back rejoicing, calling at Geo Crane's till dusk.

Monday Feb 25. Wrote to Edwin Lees, Henry Chellingworth & Thursfield, with details of discovery.

Wednes Feb 26. Letter from Lees. Very much interested in the discovery, will come over on Friday.

Friday Feb 29. Lees came by early train Started to Trimpley at 10. Met H Chellingworth at Hall's Barn Quarry. Had a very successful hunt after the Cephalaspides, result being the find of perfect bodies, head, tail & fins – with plates in charming order, but no specimen perfect. Walked to the Park & lunched there at 3. Then, driven over to Shatterford by HC to examine the Calcareous conglomerate in the Old Red of Coleridge Wood. Found decided trace of vegetable remains, transverse segment of Equisetæ &c.

Walked to the Park & teed with them, meeting Hallen the Town Clerk.

Driven down to the station to catch the 7.30 train (Worcester), too late – so back to town with Lees. Called on Thursfield detailing. Looked over his Cabinet to the Cottage to supper. Chat with Lees on old Books after supper.

March 1856

Saturday March 1. Lees returned to Worcester. Walked round to Station wth him.

Dr Wiseman giving lectures on language at the P. S^t rooms. Deprecates the use of uxoricide for wife-murder, infanticide for child-murder, suicide for self murder &c. preferring the pure Saxon designations. Very truly, for Grimm, the first Philologist of the day, pays the English Language a just tribute when he proclaims it the grandest language in existence.

London Mems. March 7

Monday Morñg to London. 7 train

To Adelphi at night – Wright & Paul Bedford in full capacity. Mddle. Celeste as Harlequin in Jack & the Beanstalk very charming spectacle.

Tuesday March 8. Left Castle & Falcon at 12. Getting to Birmingham at 6. took cab to Bristol Road, and spent evening at the Millwards. Slept there.

Wednes. Cab to Station – home. 10.30. Silence that reigned in Heaven must have been before the women were admitted.

There follows some general miscellaneous notes

The Revd. C. E. Hutchinson Vicar of Firle cum Beddington having been cured by Carlsbadwaters of Tic Dolereux of 4 years standing published a narrative of the Recovery &c., the profits to be given to Hospitals in 1838.

Printers Errors (Advert. of)

1. "The printer's errors are omitted: being no more than the ingenious reader may correct by the sence."
Cliffes Breviate of Holland's Deliverance 4 to . pampl. 1665.

2. "Whatsoever errors have escaped the Author or Printer, as the commission of them speaks a man, so let the pardon of them show a good man. I meant Plaine English, its like he means true. Veniam pro laude –"
Plaine English 4 to Pampl 1643.

Mr. John Walker who in "Essays" 1821 denounced the title Reverend, "denouncing " it as one of the ungodly fictions of the man of "Sin, and one of the main pillars of Antichrists temple". p354 vol. II. thus deeming the distinction between Clergy & laity an abhorrance.

Though Dust thou art &c. yet there is, that is not subject to decomposition & decay, which may be lost but cannot be destroyed. p66 (No 73)

Notes on Townshend Family

Henry Townshend Esq. died 1683. "Nash" Vol. I p350.

vide also Pedigree of family on p378 Vol. I. descended from

Ludovicus Townshend Normannus		Eliz. fil. Thorn de Haywell
----------------------------------	--	--------------------------------

The Rev^d Townshend Forrester of Elmley is at the present time the representative of the Family.

—

The Sealed Book of the Apocalypse was supported by Dr Adams (1838) to be the original copy of the Old Testament wch laid up in the Temple of Jerusalem was lost; and that the unsealing means simply the finding (discovery) of it. Vide "Opening of the Sealed Book" Paken 1838.

But Query? Is not the sealed Book, the true principles of Science, to be discovered, and a complete harmony established between them & the Inspired writings?

Curious Imprints

1. To "Plaine English 1643
"Printed (unlesse men be the more careful, and God the more Merciful) the last of Liberty 1643."
 2. To "A true & perfect Picture of our present Reformation 4 to pampl. 1648.
"Printed in the first year of King Charles His Imprisonment 1648"
-

Qualities of the Risen Body

K'de Serm. preached by Morrell S^t Georges 1853.

These are the 4 gifts of Glory : clarity, agility, subtlety & impassibility.

—

G.B.S. believes in a Milleniun when men will carry "Universal Histories" as pocket volumes &c.

—

"Proofs that Napoleon never existed"

(translated from the French 1838.) pamphlett Identifying Napoleon w^t Apollo or the Sun after the manner of absurd classics – historians.

Extract from The Lamentation of Cheapside Crosse

"Sanctified and shuttleheaded Weavers, long winded Box-makers and thosew [?]-stitching Cobblers, thumping Felt makers, jerkin Crackmen and ~~round-headed~~ round-headed button makers."

Ø

p7. 1641

Names of Quakers 1670-80

Some of the Quakers persecuted in Ireland by distrain for tythe in the second half of the 17th Century bear names strongly savouring of puritan days –

as	Melior Steel	
	Robert Confident	Treverse Lloyd
	Blessing Sandham	Manwaring Hammond
	Loveday Brokelsby	Duty Rose;
	Deliverance Goulby	(and one pagan)
	Noblest Dunscombe	Hercules Doscy
	Epenatus Crosse	

These all occur in "The Great Cry of Oppression" 1680 – a mournful record of sufferings they experienced.

The Italian-English of the "Guido Museo Borbonico" – Naples 1820 "is highly curious – One statue – a wounded female is described as "falling dying in her right side"

Ø

Perhaps the last woman burnt in England was one Anne Williams, who for poisoning her husband was burnt at the stake in Gloucester April 14th 1753.

(vide cuttings from Gloucester Journal No. 1606. 1753.)

Gold was discovered at Truro in Cornwall April 19. 1753 – (Gloucester Journal No. 1608) (very little, however resulted from the find.)

A company of Play actors performing at Gloucester – April 28th 1753 – request support by stating as a "N.B." in their bill – "There will be not any drum beat".

The Birth day of Queen Elizabeth - was observed yearly at Gloucester, " by all true friends of liberty and the Church of England", till nearly the close of the last century. (Nov^r 24th)

Glastonbury Thorn. Advertisement "Gloucester Journal, No 1592, 1753.

"This is to certify to all tender consciences that the Glastonbury Thorn is in as full blossom this Day Dec^r 25th New Style, as ever it was known to be on Dec^r 25th Old style".

Ingredients of a Ancient inks. see Notes & Queries Vol. 4

"Mannes urine distilled, the Chymists doe use to resolve certaine mettalles: the Printers to make their printinge inke, but these destill it in Rose stillatoryes. "Eronymus". Pub 50. (1550)

Notice of Wool Sales in 1737, were usually prefaced with "To be sold, a good pennyworth."

Inns in Worcester in 1737. "Gloucester Journal"

Corn Market. ___ Star. Wheatsheaf.

Near S^t Martin's Church ___ King's Arms

Melcheapen St. Raindeer Led Lyon (This latter I am afraid is the Red Lyon in reality, though I should be glad to find it as Spenserian as it looks.)

New S^t ___ Plough ___ Black Horse ___ Talbot ___ Greyhound ___ Seven Stars

Shambles ___ Bell.

Dish market ___ The City Arms.

Sidbury ___ Coach & Horses

Powick Lane ___ Swan

All Saints ___ Pewterers Arms

Newport St. Crown ___ Drum Green Dragon.

Bridgefoot ___ Kings Head.

Dolday ___ Queens Head ___ Wherry ___ Sow & pigs.

Broad S^t Leopard ___ Fleece ___ Bell & Unicorn ___ Old Unicorn ___ Unicorn ___ Crown

High S^t ___ Kings Head -

Key (Quay) ___ Salt scales

Bridge ___ Bear

S^t Johns ___ Angel ___ Red Lyon ___ Swan

Ancient Physic

Extracts from the Treasure of Eronimus 4 to. Blk Letter 1550.

Ø

1. "Water destilled of whelpes, will make that heir shall not growe againe" fol 4g

2. A yong Storke some bid strangle and destil it lyke rose water, and therewith to anoint the partes taken with palsey, or shronke together, and at certain tymes to washt away with a decoction of sea crabbes without salt: Theye saye it helpeth marveilously, if a man continue it." ibid

Well sayth the wise Eronimous –

I give little credence to thies curious and exquisite remedies, and although they be true, yet I do not alowe them, specially where other - many and easy to be gotten are not lacking". ibid

.....

Kidderminster

In the early part of the 18th Century - the Dixon family lived at Caldwall. One Mr. Dixon resided there in 1739 at 15£ per an. rent to ~~Sir P~~ Francis Clare Esq.

In No. 2086 of Gloucester Journal 1762 is a notice from the Master Weavers of Kidder^r cautioning their men not to "embezzle" the yarns entrusted to them - signed John Lea Sen^r & John Watson.

Ancient Saying. Query? in Shakespeare?

"He who cutteth his nails on a ~~Friday~~ Monday morning without thinking of a Fox's tail will certainly come to great riches".

Marble Sculptures of M. Motet (AD 1753.)_Advertisement in Gloucester Journal No. 1625

"M. Motet's Marble Sculptures now exhibiting in this City; being dedicated to the inspection of all Christian believers "But he answered and said, It is not meet &c.!" (!)

Habitats for Geological flora &c.

New Red. Allesley - Coventry - silicified trunks of trees - coniferæ. Search for ferns likewise. (Buckland. Geol. Proc. 11. 438)

Lepidostrobi - the (supposed fruit of the Lepidodrendon - found in ironstone nodules at Coalbrook Dale. Mem^d one very like an ear of wheat, in the cabinet of Mr. John Amphlett.

Sec. of a Coal seam.

A
B
C

A. A bed of drifted materials hard & impermeable.

B. Coal, the decomposed vegetation

C. bed of clay, w^t roots of Siqillaria (Stigmaria &c.) the natural soil of the carboniferous Period.

Mem^d The common Asterophyllites is the A. equisetiformis. The seed vessels of which are the Curdiocarpon, found in abundance at Snibston Coal mine – Leicestersh^r.

Castle Hill. Newhaven. Lignite. Geol. SE. p54

For note on the Xanthidia in flint (Cret.) vide Manlell's Medals

Mem^d Catalogues of British Fossils - 1. Morris Cat. Brit. Fos. 1843 1 vol.

Graptolites. (Pennatulu) central axes &c.

Graptolithus Ludensis^x (Wenlock Lime shale) toothed on 1 side. ^xLudlow

- Murchisonii (Wenlock shale)



vide note on Graptolites in Symonds 'Old Stones'.

Crinoidæ

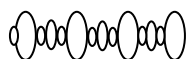
Silurian Crinoid w^t ossicles



nearly related – Cyathocrinites tuberculatus. (Murch. Sil. Sys.)

Encrinites liliformis

) Encrynites moniliformis



) the many variated "species

) marking" on the ossicula various.

Pentacrinites Briareus vide No. in Cabinet 150,000 ossicula.

Pentacrinites basaltiformis – the 5 layer Encrinite from Lias & Oolite.

Dover's Hill, Camden. in. Ju. Oolite.

Asteridæ or Stelleridæ

Asterius prisca – Lias. also at Church Hill in Lower Ludlow.

The compound Starfishes allied to the recent Euryale. in multi-radiate character approaching the Crinoideæ.

Cidantes

C. Blumenbachii. Oolite.

A Cidante w^t lesser tubercles is C. diadema more depressed.

Cidaris cretosa, w^t tuberculated spines. vide No in Cabinet

Galerites cretosus - the ~~Cidante~~ – Icherius from the Calne Oolite. vide No in Cabinet.

Divisions of the Mollusca

Acephala)Funicata

)Brachispoda

)Lamellibranchiata

Encephala)Pteropoda

)Gasteropoda

)Cephalopoda

Pentamerus Knightii from Upper Ludlow at Mocktree Hill near Leintwardine. A single valve discovered by D^r Grindrod in Up^r Ludlow at Coldwall Copse Malvern 1856.

Exploratory notes for February to March 15th.

Jungermannia in full fructification

Crabs' eye Lichen) Com. L.

Tartareous Do)
Lepraria flava. yellow door L.
Beomyces rufus. apothecia like brown nails inserted in thallus in Sandstone walls.
Spiloma gregarium. crimson spherules in patches.
Calicium like a host of brown & black sprigs stuck in wood . Fungi.
Tremellini, abundant, especially the crimson yellow Tremella in globules.
Auricularia phosphorea bright blue
Phlebia mesenterica purple
Thelephoræ in all their varieties.
Clarariæ & Dædalea Guercinas, (labyrinthal in roots of trees)
Bulgaria inquinans. blackballed fungus in chinks of woody stumps.
Scyphophori or Cupmosses. Notice the falling of underwood in the forests or coppices in March.
Botanical Looker'out 1856

Kingly Mortality.

How very queer - that all our Monarchs since (& including) William III, have died on a Saturday.

Names of Horses in 1739

Ran at Bath races –

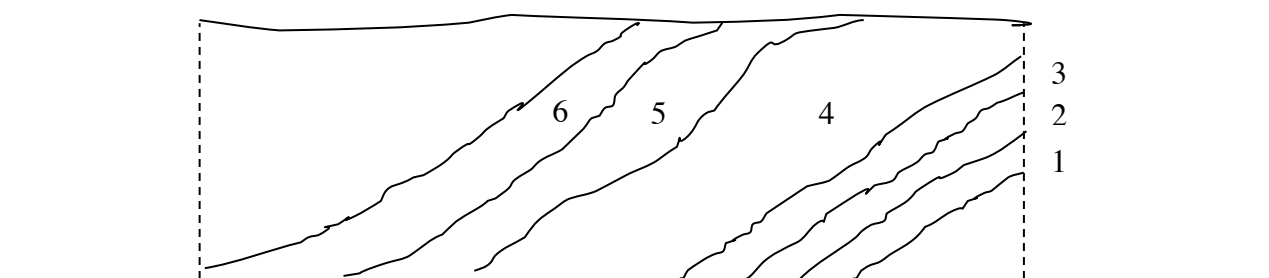
Surly Slouch	Win and deceive me
Kiss in a Corner	Merry Pintle
Pity my condition	Smiling Ball
Jack the Hornpipe player	Ladies' thighs
The Ladies' delight	Smiling Molly

In studying the records of the past it is instructive to remark what a constant repetition of minor events, both in national & social life, the world has seen.

If those events of History, which are epochas in the life of a Kingdom seldom repeat themselves, there is no lack of opportunities to study the causes, which unless checked by counter events, would naturally lead to their reproduction.

From the beginning - human thought and invention – culminating ~~to~~ in event, have appeared in cycles – now called forth by the requirements of an age, and then buried – only to be discovered by a succeeding .

Materials towards a Monograph of the Devonian System.



Rough view of beds

1. Upper Ludlow
2. Downton Sandstone

- | | | |
|------------------------|---------------------------------|---------------------------|
| <u>Cornstones</u> . 6. | Trimpley - <u>Hall's Farm</u> - | Cephalaspis Lloydii |
| | | ----- Lyelli |
| | - | Modiola (cast of) |
| | Devils Mouth Quarry - | C. Lloydii & C. Lewisii |
| | Hayton. Ludlow | |
| | | Holoptychius nobilissimus |
| | | Pterichthys – (arm of) |

Caithness beds	Targrove Quarry) <i>Pteraspis ornatus</i>
	Downton. 1856 Sept.) <i>P. Symondii</i> (Roberts)
		Onchus (spines of)
		Juncites & Lycopodites

Caithness beds Trimpey - see Mem^d ante (date Jan'y 20th 1857)

Passage beds. Railway cutting near) *Pterygotus problem*^{ic}
 Ludlow Station. with) *Eurypteris* --
 fish bed 1 inch thick) *Onchus* - spheres
 Aug. 1856 *Cephalaspis* *Lloydii*.

Upper Ludlow fish bed, near Ludford. Pterygotus problematicus (10ft below Downton Sandstone).

Berickii - and) in bed close to
Trochii -----) Downton Sandstone.

The usual Upper Ludlow shells immediately below the fish bed, especially *Chronetes*.

Monday. April 14 Went to Worcester by 4.35 train - to Museum found Reece, and talk with him on Nebular Theory as applied to early Palaeozoic period. He held the negative – but did not think the question had been publicly mooted.

Cab down to Henwick, found Mrs. Lees awaiting her husband's arrival from London. Chatted till he came at 10. Lees had been to a Conversation^e at Mr. Bowerbank's of Highgate, (the great microscopist). Supper and so to bed.

Tuesday 15th. Started with Lees to Malvern at 8.30. Walking on till the Coach overtook us some 2 miles out. Mooted the old division of men into complexions, and consequent fatalism involved, Lees rather held the idea, seeking thus to account for human extravagancies – in general, and Tom Hallen in particular.

Put in at the Museum at Great Malvern at 10. Met there, Symonds F.G.S (President) Dyson (Vice) Rev^d D^r Ferguson F.S.A. (from the Isle of Wight) – D^{rs} Gully & Grindrod, Rev^{ds} Thorpe & Hayward (Repton), the Burrow's, and friends. A look over the pretty little Museum, and then started over the Hill to the Quarries, having first inspected some Crustacean remains brought by Mr. Symonds, and enquired the fate of a *Caerodoc* fossil sent to Burrows last year – which I find has been to Jermyn St. without its true character being ascertained. Burrows produced it, and general opinion coincided with my own, previously formed, viz. that it was an *ichthyolite*.

Unsuccessfully looked up the Croft Lime Quarries – Upper Ludlow, where joined by Rev^d Vale of Mathon & Mr. S^t Patrick (Worcester) then to Mathon Quarries of Lower Ludlow, where better things are discovered. *Serpulites* & *Cypriacus* abounded and I luckily turned up the rare *Murchisonia Coralii* – a shell (*Turrilite*) in a coral – a link in the great chain of organisms, allied in circumstance of design, to the plant-Caterpillar of Australia. Then to Mathon Church with its singular Trinity Window, thought to be the only one in the County. Fine carven pulpit temp. Jacobus I. regarded by a member present as Norman (!)

Mathon Court to ~~dinner~~ lunch at 4. 25 sat down. Mr. Symonds read an highly instructive paper on order of Early Palæozoic formation, and Mr. Lees, one on my discovery of *Cephalaspides* in the Old Red of Trimpey, exhibiting the specimens I took him down. Interesting remarks made by Mr. Vales on is recent life in Lapland, birds of ditto &c.

Adjourned to the Lodge, and conversed over cigars till 7. Setting our faces homeward crossed the Hill, tremendous wind blowing, and took tea at the museum with Mr. Lees & St Patrick. Back to Worcester in a fly. Slept at Henwick.

Wednesday. Walked to Worcester with Lees at 9.30. Called at Jones to obtain a little work he had spoken of entitled "Good Newes from Heaven" 18^{mo} 1624 very fine & scarce vol. (see Cat.). Rails at 10.30. Took wrong Train and found myself at Bromsgrove – so strolled into the town till next Train at 2. Grand old Churchyard surrounding equally fine old Church. Sat an hour in Porch reading "Good Newes". Lich Gate in beautiful condition. Noted a queer Epitaph on Mary Biggs 1685 in which Mary's "quondam beautie" is spoken of, (in rhyme) and she is farther stated to be _"proto-varnished" "with and angel's face". The "Sampson" Inn at Bromsgrove, relic of Puritanism, (to be classed with the "King David" of Bristol now existant, and the "Adam and Eve" of Little Lumber Street, London, as a printers sign, at which Alleyn's "Alarm" was first printed.) Back to Droitwich at 2. – changed, and so home - Walked from Station with Revd. E. Bradley (Verdant Green alias Cuthbert Bede).

Took notes – while with Lees of curious & rare edition of *Speculum Morale*, (Glass of Morals) by Johanne Vitali 1513. sm. fol. with engraved title of "6 days" work, exact facsimile of Lyon's illustrated Bible of 1500. (vide MS. 70.)

Placed in Cabinet the fine specimen of Lias Bone-bed, with fish scales &c. and Coprolites, Lees gave me - locality – Coombe Mill, Tewkesbury.

Specimens from this locality very rare, the bed, only a few inches in thickness, having been "bought up" by a friend of Lees, immediately the discovery was made.

Mem^d for brief notice of Romsley Chapel see Duke's Shropshire fol XI. Appendix Stackhouse Library.

"Society for the Reformation of Manners."

There existed in the latter part of the 17th century a society w^t the above title. They published Sermons, to assist in the work, one of which is in the Stackhouse Library, Bridgnorth (B.375) all very rare.

The curious Assize Sermon, preached by W. Shaw at the Trial of Waltham Blacks in 1723 is also in the Stackhouse Lib.

also the following noticeable books:

Bugg (Francis) (Quaker) Pilgrim's Progress 1698.

Bugg. (F.) Battering Rams against New Rome 169⁰/₁.

Bugg. (F.) Painted Harlot stripped & whipped", (ibid)

L'Estrange Interests mistaken, or the Holy Cheat. 4 to. 1662 rare

Lloyd (W.) Funeral Serm. for Sir Ed^w Godfrey 4 to. 1680 rare

and as companion – the funeral Sermon over Shakespeare's Lucy. subtitled –

"Abner's Funeral - sermon preached on that learned & noble Knight Sir Tho^s Lucie - by Rob^t Harris 4 to. 1641.

Dr. Tobias Venner's "Via Recta at Via Longam (of Bathe) 1638. Also his blast against Tobacco. very rare.

A fine Theological MS. on vellum written about 1500 - in 8^{mo} on one page is written in a different hand – "Londini in edibus Thom Bertholet: Voluntas omnipotentis Dei et domum Jhesu Jeti."

Monday. Ap 21. Wrote to Rev^d W.S. Symonds on present aspect of Nebular Theory - fearing it was entirely disposed of by recent discoveries of Lord Rosse.

Tuesday. 22nd. Went with Mr. Lees, who came over this morning, to Music Hall to arrange scenes &c. Afterwards to Habberley to examine exposed section of Permian in the Wood. Found a fine impression of "S^t Catherine's Mare & Colt" in the New Red sandstone of the Brook. Much talk in consequence of the curious speculations of the late Jabez Allies on these markings who not only held to the notion of their being actual impressions of Equine animals of Geologic days, but really published his views in a pamphlet now rare and curious. Lees related an expedition taken with Allies to examine certain "mare-tracts", in a brook-bed at Roger's Mill, near Astley, where the result of an adjournment to the Mill, after the fatigues of noting and exploring, were the wholesale clearance of good Mrs. Roger's mantel piece of the fine Silurian and Metalliferous specimens it held – she having unadvisedly requested Allies to take any he might fancy. The good dame's dismay – (Lees assured me), could be but faintly described. This led me to note the mysterious disappearance of a Roman pavement, belonging to Mr. J. Amphlett, which that gent. always regarded as a consequence of a visit paid by Dr. Prattinton - for he maintains, the Doctor's Exodus & that of the relic, to be co-eval. Prattinton's peculiarity was well known. Examined the Permian strata in the Wood at the summit of Pigsty Hill (improperly so called, for a prettier spot is not in the

Valley. Obtained a section in the little glen formed by the brook, which will match the junction of the Red Sandstone (properly so called), and the Permian.

Walked back meeting with the Vicar at Low Habberley to whom I introduced Lees - Hurried up to Station to meet Miss Dixon by 2.40 down train. Took Cab to Cottage and dine with her & Lees at 3.

Evening – packed up few illustrative fossils, & took down to the Music Hall – Lees' lecture not well attended – a party from the Vicar's there, including a Sir George Sinclair from Caithness, who made a few pleasant remarks after the lecture. Waited to assist in packing up diagrams, and then to supper. Botany topic at Supper.

Wednesday 23rd. Arranged with Lees while walking to the Station with him that I would meet the Worcestershire Club at Frankley on the 12 May - bringing with me the pseudo-echinus (so called) from the Permian, and the charming Fucus in mocha I discovered among Dr Prattinton's gems. Lees took a fossil from the Caerodoc at Ankerdine, which seemed a nondescript uncertain whether it was vegetable or ichthyolitic. So Symonds is to decide. (It was an Orithoceratite.)

Sunday. April 27

To Drayton Villa with Fred Saunders (introducing him. Found G. Bury alone, the ladies being at Broadwas. Belbroughton to Church. Sat in all afternoon – and much talk. Mem^d when at Frankley on the 12th to call on James Bissell of Honeyton. Walked to Churchill Station in evening, and so home.

May 1856

Sunday May 4. At home.

Walked in afternoon to the Old red Quarry at Hall's Farm, Trimpey - noted another place where the Fish bed crops out, and marked it. Then down to Bewdley through Gray Green, noting the junction of Upper New red with old red below the Goose Farm.

Sat an hour with Baugh, looked out 3 fine old prints to bargain for, some future day. Mem^d. The Nash's Worcestershire that fetched 45£ bought by Sir Thomas Phillips for genealogical purposes, being crowded with MS marginalia of the late Dr Prattinton.

To the Library in High St. searching in vain for the Milton of 1668. 2nd Edit. (?) appearing only in the Catalogue – so left instructions to Curator to look it up. Fine old Chaucer there – the Blk Letter Edit of 1602. "Adam Islip", Printer. As also a splendid "Montfauçon" in 5 vols. bds. and the curious Vol. of plates to Dugdale's Monasticon 1664.

Monday. May 5. *[No entry on this day]*

May 6. Tuesday. Sat an hour w^t Mr. John Amphlett, who produced (and lent me), 13 Tracts of the Commonwealth he had bought at the Greene Sale - (Lichfield) for 6.15.0. One being the extraordinarily rare Tract, entitled "The Decoy Duck 1642" (by the Author of "A Rot among the Bishops" 1641.) J. A. is engaged in writing a Supplement to his "Key", to explainify it (!) which it greatly needs.

May 7 Wednesday.

Letter from Charles Cole (Orderly in 99th at Cork) mysteriously endorsed above the seal – "got off quite safe"; - which comforting news (so publicly given), is explained within, by a detail of afflictions which resulted in his arrest, cause – insolence to superior Officer. However as Charles

afterwards remarks, in the true Hibernian style, "Accidents will happen in "spite of consequences", and the uncertainty his letter closes with is dispelled by the special endorsement.

May 8. Thurs. Obtained Murray's "Revelation demonstrated by Existing memorials &c 1840", pleasant book to read, or refer to, but overburdened with quotations: also a few old Puritan Treatises from Fryer's Sale last week. To Concert in Evening. Edw. Saunders sang, fairly. Is it not remarkable, that the division at last agreed to by Botanists, of Acotyledons, Monocotyledons & Dicotyledons should be the very division of Inspiration? Grass – plant bearing seed, and tree bearing fruit &c, or in other words - Obscure seeds (or sporules) Simple seeds and Compound seeds.

Friday – May 9. Wrote to Henry Chellingworth on the discovery relative to Basalt. Mem^d Chance's are erecting works on purpose for blasting the Rowley Stone, and have contracted for it to a very large amount. This I have from Taylor of Birmingham.

The Shatterford stone would be very likely to melt into the same opaque glass as the Rowley, but would it not be preferable, for any work requiring sharpness of outline, on account of its superior chrystalline structure? The Rowley stone being more trapped than the Shatterford; which is a sub-chrystalline Greenstone.

Saturday May 10. Letter from Lees, putting off the Frankley trip on Monday; weather unpropitious &c. Wrote back, it having taken a warmer turn. Propose instead, a trip to Shatterford.

Whitsunday. May 11. Walked to Chaddesley finding service not commencing till 11, called on Court and sat an hour with him. Joined Miss Bury & Miss M. Waddley, at Church, taking a seat in their carriage to Drayton. Met a Mr. Taylor of B'mgham at Dinner. Pleasant chatty day. Started back at 8.30. taking Blakedown in walk home.

Sat at Church with the "petrified tom tit".

Monday. May 12. Letter from Lees, cannot join me today at Shatterford. Hints at taking up his abode permanently at Kidderminster. Bought a small parcel of Books from Brewster; two worth keeping. viz "Cowper's Heaven Opened" "to be sould in Thomas Archer's shop in Popes-head Pallace 1613" Bishop Hale's copy, with his autograph, (unfortunately nearly effaced by dirt) 4to. and Simpson's Sermons against Pharise & Sadducee &c. 12^{mo} 1648. very scarce: and curious.

I wonder whether, in any attempt to harmonize Scripture and Geology, the true character of time has been regarded. (Neither Pye Smith or Hitchcock mention it). For being ordained by the Creator as a human institution, of co-eval birth, and co-existant with him, it is evident, that to speak of any divisions of time, prior to man's Creation. is only to acknowledge the Wisdom of the Creator in using language in harmony with the ideas of the being for whose comfort the earth was elaborated.

Divest the Mosaic account of its diurnal divisions, substituting periods – (alike to Him who rules time and degree) – and the *[rest of page is blank]*

Thursday. Speaking to Brown concerning the Basaltic discovery, he informed me that Chance's are sending circulars with prices: which are very high. The Basalt after being fused, is annealed, and by chemical combination bleached. &c.

Evening. Read the rare tract "True Narrative of the Cause and Manner of the Dissolution of late Parliament 1653. (from Greene's Library.) in which it is stated that an hon. Member rising in the

Commons, did move that as the opposition were determined to destroy the Ministry, they could not satisfy their consciences to sit there longer " _ and so bring desolation upon the Nation: "But if any Member differed from him, he would say to him in the words of the Prophet "Ephraim is joined to his Idols, let him alone."

Could anyone doubt of the Judgeship after this!

This brought forth "An Answer – &c by a Member then present." 1653, laying the blame on the "Fifth Monarchy" party (very justly,) and ending thus tersely: - The Author's (of the late dissolution)) say that their desires ever were only, that the Loved Jesus might reign, and the Nations flourish; But if we may judge of men's intentions by their actions, and their end by their means – whether pulling down laws, and taking away property be the means to make a Nation flourish;

But if we may judge of mens intentions by their actions, and their end by their means – whether pulling down laws, and taking away property be the means to make a Nation flourish – and supplanting public Ministry the way to advance an Saviour's reign, let every sober Xtian judge" p7.

The beautiful conceit of George Raleigh in his "Albania" _ touching the Sea as Neptune, hugging the blessed island, and weaving in his mantle of blue, "a chain of goodly ships which she had decked him." p10. "The Sea, the Sea is England's
and England's shall remain'
vide Nell Gwynn's song.

In "The City alarm 1645" – a curious quarto tract, published anonymously, is an anticipation of the Electric Telegraph - thus –

" Not many weeks since I exchanged Lorraine air for English,
I have heard of a mysterious way of communicating intelligence
between persons far distant, by vertue of the Loadstone, sure I
am, the same Loadstone which toucht you at home, affected me
abroad &c. p2

Sunday - May 18. Great storm of wind, stayed in afternoon – but on it lulling went round Franch & Wolverley in Evening meeting with uprooted trees everywhere.

Monday May 19. Birthday

Wednesday. May 21. Started at 6. geologically caparazoned, for a ramble - looked at the Shatterford dyke, and collected a few segs &c from the shale. Then to Belmans Cross & Wittnels End. Called for Pritchard, and looked up the Quarries of Basalt. Nothing new to be met with. Lunched, and crossed the fields to Romsley, taking the old chapel in my way. Nearly overgrown with bushes. Dined with Stephen Creswell - then looked round the Permian Quarry at Dodsbourne, and the "quarry field". Permian conglomerate at former place exactly similar to that of the little Trimpley Quarry a mass of Silurian & Trappean boulders; some of the Silurian ones fused, but still retaining their fossils, as Euoniphalus & several Corals as Retepora &c.

Back to Shatterford & Trimpley. Crossed over by the School, and down the Eymoor Lane to the Hill field, & Hill Farm, where quarries of Cornstone are worked for lime, by contain, as far as I could see, no ichthyolitic remains. Then, over the fields & dingles to Hall's Barn. Sat an hour w^t

Crane, and marked another place where the fish bed crops out. Rained heavily. Started again at 7. and put in at Geo Crane's where spent the Evening.

Erigeron acre, or Flea bane, abundant at Wassail.

Friday. 23 May. Reece came over from the Museum to get specimens of Cephalaspides. Went with him to Trimpley; rained very heavily. Were fortunate to find several good backs in the Cornstone, (lower beds) obtained a specimen of a scaly nodule, with shining black tubercles covering it: very uncertain whether fungous or organic Sedgwick figures echini from Permian beds at Malvern, from ~~spales~~ spines found, so that it is probable my pseudo-echinus may be bona fide after all. This from Reece.

Down to Bewdley crossing Gray Green noting the faults there. Dined at the George with Baugh. Sent for Jordan, but the old botanist was out. Much talk on Baugh's favorite hobby – the "Glory of Kent" moth. To Baugh's at 6. Looked over Cabinets &c

Noted a Book or two he had met with. One a treatise on Phlebotomy 1592 vell, another curious & now rare tractate of Allies on the Mare & Colt indentations in New Red of Worcestershire. Also a description in pamphlett of the Ancient monastic map of the World, preserved in Hereford Cathedral Library.

Saturday. May 24

Tremendous hail storm at Kidd^d ice & hail lying in the streets for hours after. Water 5 inches deep in the shop.

Sunday. May 25. Walked to Harvington in afternoon, and te-ed with Mr. Guest. Heavy & continued rains.

Wednesday 28. To Hartlebury by 1st train to meet Worcestershire Club. Eleven members met: including W. Mathews Hon. Sec. Edwin Lees, Dr Grindrod & friends; Rev^d W. Lee (Droitwich): & Harward (Worcester). Struck off over the Common to Redstone, through Titton, calling at Vane's. Examined the Hermitage at Redstone, where tradition states Layamon wrote "Brut". Geranium phaeum still growing in the "hermit's garden". To Areley Kings: shown over the Church by Rev^d Hastings. Noted the Stone wall tomb of Sir Harry Coningsby, and the very curious slab over the remains of Walsh the poet who attributes his "ruination" to "3 Quackers, 2 Lawyers and a fanatic to help them". Quackers supposed to be Quack doctors by Mr. Hastings but I imagine them to be Bishops, for Quackers was a pseudonym for Bishops in the rabid contraversialism of the 17th Century. In the Mar-prelate squibs they are so called, "for as ducks quack loudest before storms, so Bishops herald any change w^t excited movements &c".

Again, in the later turbulence of sectaries when the "oyster women locked their fish up,
And trudged away to cry 'no bishop',"

on the Episcopal bench, the odium of untoward events was cast. There is a rare tract entitled

" The Decoy Duck: together with the discovery of the knot in the Dragon's tayle called &c.
Lond 1642.

in which Bishops are spoken of as "skilful quackers" p1. This tract has a frontispiece on title of Bishops, seven in number, signing the Episcopal protestation, while 8 Bishops in the form of ducks

are being decoyed by another to Canwood House. (Query, was this the seat of Williams Archps. of York.)

I imagine the satire to have been issued in the event of Arch. Williams callg. a meetg of the Bps at Canwood, when 12 signed the protestation, who were Durham, Lichfield & Cov, Norwich, Asaph, Bath & Wells, Hereford, Oxford, Ely, Gloucester, Peterboro, Landaffe, Lincoln who was the Decoy. (then called "Brother duck of Lincoln.")

Quack doctor in early English days was Quacksalver (Belg.) Blount Dict. 1706

Walsh was a Catholic, and may have been mixed up with the trial of the Bishops in 1688 and have suffered by their success. So as to attribute his death to a combination of Bishops, Lawyers and Fanatics, for no doubt the Trial of the Bishops revived the satirical appellatives of past years.

Then through Stourport, noticing the grand Cedar in the grounds of J. Rogers Esq.

Met with the Rev^d Thompson, of Hales Owen in Hartlebury bog, stayed botanizing some little. *Marchantia hemispherica* the rarest thing found. Abundance of Reindeer Lichen & Stag Moss. (*Lycopodium clavatum* L. *alpinum* has been found in the bog.) Then to the Grand pits of the Northern Drift, where obtained pebbles of Basalt – Granite, Trap, Jaspereen, Slate, and various palæozoic Limestones & Sandstones.

To the Talbot to dinner. There, chosen a member of the Club. w^t Mr. Vernon of Hilton Park, Staffordsh & the Rev^d W.H.W. Ingram. Saw the club off at 7. and walked quietly home through Hoobrook.

Landlady at Talbot relating how a Commercial Traveller, stayed there 9 days purposely to eat 9 sucking pigs, and in consequence, lost his situation.

Thursday. 29th May. Day of Rejoicing. Closed at 4. to Hall's Barn Quarry; found part of the head of *C. Lyellii* and 2 very beautiful ~~pises~~ pieces of *C. Llodii*.

Then to Bewdley, through Gray Green. Supped at the George with Baugh & Davis of Stourbridge. Turned out to see the fireworks at 9. Home at 12.

Saturday. May 31. Obtained a copy of Allies "Mare & Colt" Speculations for 1^s highly curious, but perfectly valueless. Also his earliest work on County Antiquities 1840. for the same sum.

June 1856

Sunday June 1. Very gloomy indeed. Wrote to Edwin Lees on Walsh's tombstone. Eveñg. walk to Hurcott.

Monday. June 2. Read Donne's "Essays" (the Witty Dean of St Pauls).

Odd remarks by Donne.

"Beasts have the honour of being oft times our reproach."

"The Devil first named God."

"The enquiry of what did God make before the beginning was met by the answer 'He made Hell for the inquisitive.'" (This is old "merry conceit" and has been rhymed more than once).

Geological papers read this week.

1. On the Keuper, and its fossils at Leicester by Mr. Plant.
 2. On the Keuper of Warwick & its fossils by Rev^d ___ Brodie
 3. On a new Genus of Cephalopoda (Diploceras)
 4. On a new Orthoceray from China by Mr. Woodward.
-

Mem. Worcestershire Club Meets for 1856 arranged at Hartlebury.

May 28.	Hartlebury. - ✓
June 24.	Campden Station.
July 9.	Droitwich Station.
July 23.	Kidd ^r Station for Fenny Rough.
Sept 16.	Shatterford &c. Meet at the Fountain

Malvern Club Meets for 1856

April 16.	Mathon ✓
June 16.	The Wych. Malvern
Sept 16.	Shatterford. Meet at Fountain.
Oct.	Ankerdine Hill.

Mem^d. My Nondescript from the Caerodoc is an Orhtocerulite, according to Symmonds.

Tuesday. June 3rd. Letter from Reece, quoting from the Rep. of Ludlow Nat Hist. Society ___ the find of sundry Crustaceans & Encrinitaë in a (supposed) Upper Ludlow near Leintwardine.

Evening

Dr Donne again.

Notes on the "Name of Mystery".

There are 2 names of God proper – one imposed by us – viz. God: the other taken by the Deity - viz. "the name of 4 letters".

(The human word is expressed by the Turks [?] in 4 letters "abgd" but this has no connection w^t the name of mystery.) None doth know this name.

"Of which name one saith – that as there is a secret property by which we are changed into God (see 2 Prt 1.4) - so God hath a certain name, to which he hath annexed certain conditions, which being observed, he hath bound himself to be present.

This is the Name which the Jews deny ever to have been attributed to the Messiah in the Scriptures. This is the name, which they say none could utter, but the Priests, and the knowledge of which perished with the temple. And ~~this~~ is the name, by which they say, our blessed Saviour did all his miracles: havg. learned the true use of it from a Schedule of Solomon's, and that "any other by this means. may do likewise". Thus are their eyes blinded.

Yet the more enlightened Jews call it Shem Hamphoresh - i.e. "The Ineffable Name" illustration of which see Margolinestlo [?].

Dr Donne the 1st Theoretical Geologist.

Speaking of the Creation he says –

"Because the literal interpretation of dayes cannot subsist, where there are some dayes mentioned before the Creation of those planets which made days" &c. "Essayes" (Written 1603) p 67.

Though the Dean does not attempt to explain; yet the simple remarks notes a spirit of enquiry which later advantages would have fostered, and brought to useful account.

Number of the Angels in Heaven.

Francis George has some curious remarks in "Prob 376" touching the harmony between the number of the Israelites (taken in Numbers;) & the number of the Angel in Heaven, following those curious rules by which the Hebrews have numbered them. Query. What are these Rules? Also to accede[?] w^t the number of Angels in Daniel 7. "David was only in his right Arithmetic, when he prayed to find the number of his days."

Ø

"Let not (thy) smallness retard thee if thou beest not a Cedar to help towards a Palace, if thou beest not Bezoar or liquid Gold – to restore Princes; - yet thou act a shrub to shelter a lamb, or to feed a bird; or thou art a plantane to ease a child's smart, or a grass to cure a sick dog". p 145 "Essays in Divinity."

The vermin produced by putrifying bodies. an (indirect) production of the Devil, or in other words an effect of the fall.

Miracles of Virgin related at length in "Miracula B. Virg. ab. Anno 1581. A.D. 1605." see especially p 150.

Rainbow

Gen. IX. 13.14. Ecclus 43.11.12

S^t Ambrose supposes the "Bow" metaphorical only, & to signify "the power of God in persecution."

Another of Francis George's "Paradoxes".

As the frame of our Body hath 248 bones, so the body of the law hath a like number of affirmative precepts, and of the same number consisted Abrahams name.

It hath 365 negative precepts - so many sinews and ligatures in the body. So many days in the year. In the Decalogue there are as many letters as precepts in the whole law

248

365

601

The Talmud says that God hath a secret place where he afflicts himself because he burned the Temple.

Also that remembering the Captivity of the Jews, He daily pours two tears into the Ocean, and for grief, smites his breast with both hands.

Curious saying of Brooks the Puritan (1650)

"Make the heart a ferryboat to carry devilish thoughts to Hell."

"Prophesy is History anticipated." (Boyle's Serm. June 8/56.)

Friday. June 6. Up at 5. After a crust, walked to the gravel pits on Hartlebury Common, through Wilden, found many bouldered limestones of early Palaeozoic period, which are partially decomposed by saline action, and changed into a calcareous silt, in which the fossils being more siliceous, appear in pleasing relief. The primitive rocks well represented; picked up fine specimens of Schistose slate and Volcanic products, basalt traps and a curious vesicular cinder of trappoid matter. Back through Stourport.

Sunday. June 8. 1856. Mr. Boyle preached St Geo. on Isa. XXIX.11.12. The "sealed book" of the Text evidently a reference to the Book of Solomon, which contained the "Mystic Name" "which none doth know", and in the knowledge of which lay the power of God. Traces of this may be found in Scripture, for when Moses was sent forth to work miracles, he engineered the "Name", which not being ordained to be known, was given (doubtless) to Moses, though the Biblical answer is "I am that I am". &c. All who had the power of working miracles, say the Jews, had comprehended this name; to which was added the contents of the "Book"; a fragment of which is supposed to be preserved in the "Mene – Mene Tekel Upharsin", "which none but the man "with the wisdom of the Gods" could interpret - &c. (See ante. p for other notes relative.)

Over to Dudley in afternoon, with Fred & Dixon. To the Market place to tea, then to Castle grounds, and visited the nook where the Trilobites abound. Picked up a fine large Eulima (rare in the Wenlock shale), a good Euoniphalus, and a Flustra of considerable size. Home at night by last Train.

Monday June 9. Obtained from Pritchard a very fine seg. from the Shatterford shale 8 inches long. Noted several specimens which he had laid aside.

Monday June 9.

Noted in Palmer's Diary, as made public, the curious word "Neri" (??)

(Heb. "Light, or a Candle") prefixed to several memorandums. What can be the connection? as for instance – "Neri. Milcrest died". (Mrs. M. Palmer's father.)

Tuesday, June 10. Wrote to D^r Grindrod on boulders found in Hartlebury gravel beds on Friday last, also to C.J. Mathews, a general letter. To the Burrow's to meet Mrs. Bury &c. Letter from Broadwas; Mrs. Guest very ill. J.B & mother went down this Eveñg.

Wednesday. June 11. Read D^r Down's Paradoxes &c. 1653. To Franche with Miss Rudge, a pleasant saunter.

To the true scholar, no less than to the true believer there is no "downward course towards death". Death is a kind of perfection, which to some is an inevitable consequence of a life exhausted in research. The perfection of this end both Art and Education languish for: even as plants exhaust their powers. But who shall deny that such plants are not higher in the scale of vegetable life. than the uncultivated weeds.

The world, saith D^r Donne, might very well spare the Devil, it could be bad enough without him.

Thursday. June 12. Went with Smith of Lindridge after market - called at Bewdley, and reached Dumbleton Farm abt. 7. Examined the large Quarries round the hills. Especially the curious one of Transition sandstone, included by the Ordnance Surveying in the Carboniferous. Stone of this Quarry much broken & contorted in dip &c. a semi-argillaceous sandstone with interstratifications of marl, and Brecchia, the latter composed of trappoid and oxidized nodules, enclosing nucleons of pyritous matter &c. Very wet. Obtained specimens & after diagrams, returned to the Farm, where slept.

Friday. June 13. Very wet. Up at 5, and another look at the Quarries. Visited the lower ones of Old Red. Occur in one place in curiously contored laminæ. No organic remains of any kind. Walked up the bed of the brook, and under the bridge whose sides are covered with filtrations of calcineric matter, obtusely chrystallized. Only 1 land shell observable viz. Zonites radiatus. No fresh water ones in the brook.

Dinner at 1. Then took leave of the Smiths, and walked to Mamble, through Soddinton, examining the Coalpits as I passed them. Put in at the Sun, and stayed with the Williams' till Friday mid-day. Three daughters at home. Called on Mrs. Preece and obtained a highly curious MS written by George Mapp, bailiff to Sir Edward Blount of Soddington &

Mainly being an account of sums expended by him during his Bailiffwick in 1693-4 - particulars must appear hereafter. Visited the Church with James Preece, Clerk &c. The Blount Chapel much neglected, but the Wicksted one, carefully being restored – the carven ornaments burnished up, and "glorified" by new pews and hangings. Ascended the Belfry to little purpose. Heavy rain all day.

Met in the Eveñg a Miss Mopson of Bayton at the Sun. Cards & supper.

Saturday June 14. Up at 5. Sat in the bow-window of bedroom reading the quaint MS of Master Mapp till 6. Then to Preece's to Breakfast. Off to Neen Sollars at 8 with Miss C. Wall.

Examined the ~~Wenlock-shale~~ Upp Ludlow Quarries on Neen Hill, abundance of Terebatulæ Spirafia & other Bivalves. Orthocerus & other Cephalopoda &c. but nothing rare.

Lunched at Sun at 12. Then back to Kidder with Mr. Williams in his dog cart.

Palmer executed this mor^g at 8.

The one thing pronounced "not good" by the Creator was "It is not good for man to be alone."

Letters this day from Charles G. Mathews who is in Chancery offices now: & Fanny Millward.

Sunday. June 15. Mr. Boyle at St Georges in mor^g. Stayed in all the afternoon. Eveñg walked into town, sat in church St an hour. Bright weather again.

Sunday. June 22. Walked to Mount Segg to examine the bear cave, found it at the top of the escarpment of waterstones in the coppice. (See sections of cave in Geo^{cle}- portfolio) and see also notes on it from the researches of Mr J Amphlett. Supped w^t Mr. Guest at Harvington. Visited the old Hall, find one of the great elms in front cut down, as they feared it w^d fall, and kill the cattle. Of immense girth & length.

Home at 10.

Thurs. 26th June. To Campden Station to meet the Wac` Club. Met at 11. Present - , GW Ingram - Lees, Baxter, Hopkins (Architect) Chaplin, Haywood &

Over the Upper Lias country to Campden. Exam^d the fine old ruins of Hick's Hall, thence to the Church – late perpendicular fine marble monuments & Bible of 1585 chained on Lectern, which was a brazen one given in 1605 by Hicks. See Lees' notes on the Church. Thence through the town looking at the many examples of the architecture of 15 & 16 Centuries remaining in the Market Cross & houses.

Up the Hill, crossing the line of springs between the Upper Lias & Inferior Oölite; visited a Quarry of Inf. Oölite on the top of the Hill. Nothing particular, see list of Organic remains in the Inf. Oölite. Pleurotomaria rare.

(Called in Campden to see an old Schoolmaster - who had many fossils - Ammonites, Belemnite &c. from the Mickleton Tunnel.) Ascended Dover's Hill, and examined small quarry of Oölite on summit, found Serpula & a good section of Encrinite.

Very fine view into the Vale of Evesham. Then to Saintbury Church, (see notice of.). There passing a fine old wayside Cross with sundial of the 16th Century – reached Weston Subage (or Subedge) where dined at the Segrave Arms.

After dinner to Weston Church, (see notes of) and left Hopkins, Haywood & the others to walk to Evesham. Lees, Baxter & myself intending to stay over Friday. Walked to Cow Honeybourne Church with them & Ingram. Nothing particular picked up. The Church inhabited by 3 5 families

(as detailed in notes.) The oven is under the Eastern Window and the bread comes out, inscribed "Here lyeth &c." the bottom being a tomb-slab.

Left Ingram at Honeybourne looked at the Church & walked back to Weston through Church Honeybourne looked at the Church as we passed it. Sat an hour in the bar of the S. Arms with an erratic genius in a smock frock who delighted us by a relation of his hypotheses, touching the condition of matter before Chaos, and that Comets and a kind of clouds, and a connecting link between clouds & lightning.

Slept at the Arms. Very hot. Up at 4, and round the village with Baxter - Breakfast at 8. Then started to Northwick. Got on the Roman way called Buckle St. (See Allies Antiq. p 316-17.) At the cross roads here in a stone, much like a Roman Itinerary inscribed "HERE ENDETH YE HIGHWAIE" (probably of the Commonwealth era).

An old hedger we met w^t related how some few years back he had found 2 skeletons in the ditch with short rusty swords by them – possibly Roman Soldiers, whose swords were always buried w^t them. His name was Ewins, aged 83, so this note by "the oldest Inhabitant" is curious & worth looking up

Thence through New Comb, to the Broadway Hill, through Tilbury Hollow, and in front of Old Comb, a seat of Viscount Camden. See Newspaper cutting for other details). Called on L^d. Northwick. So to Blockley, lunching at the Sun. Reached Worcester by O.W. & W. Rails.

To Baxter's to supper – &c.

Saty. Went w^t Baxter to Cathedral Library there met Rev^d R. Saunders (late Commandery) and Canon Wood. Looked over the shelves an hour & took following notes: --

Note of Rare Tracts.

No 1. "Worke, more Worke, and a little more Worke for a masse Priest. Lond 1628.

4^{to}. ("By Sir Alex. Cooke", this in MS. on title!)

No 2. "Gee's" Foot out of the Snare 4^{to}. 1624. (with many others by Gee.)

No 3. Wibarne's "New Age of Old Names" 4 to 1609. very rare, in fact nearly unique.

Ex. "Nose-wise Critics" p 38.

Mem^d. A rare form of Imprint to "A Defensative against the Poison of supposed Prophetes –

"At London: Printed by John Charlewood, Printer to the Right Hon: Earle of Arundell 1583."

This curious tractate is by "Henrie Howarde". & is dated from "Howarde House 1583"

No 4. Carpenter's "Plaine Man's Spiritual Plough, containing the Godlie and Spiritual Husbandrie. Lond. J. Crede 1607. very rare. 4^{to}.

No 5. Reynold's Chronicles. Black letter. "Anno 1571" 8^{vo} Lond. Nearsho [?] bound in Theological MS of 14th Century on Vellum. 4 folios.

On a fly leaf the following MS. circa 1620. "Every man hathe a good opinion that roasted Mutton is good meate with an onion".

No 6. " Ø Tractatus de arte bene vivendi moriendi". (Imprinted at Paris as Colophon "1517".) with Autograph of "Mr. Wood – Corpus Christi Coll. Oxford." ab^t 1650. (Anthony Wood.) and this MS.

"He that wyll feare God, God wyll helpe him". Ab^t. 1560.

Curious & fine cut of Christ Crucified.

Looked in at the Crown, but Ed. Guest not in Worcester. Met Lees at Graingers. Called at Reece, and Read report of Ludlow Nat. Hist. Soc. alluded to before, also the new vol. of Palæontographical Society just out - being a Monograph of the Oölitic fossils. Borrowed Astle's "Writing" from Baxter. So Home at 2. Dined w^t Baxter & Lees at Baxter's. Lees beating up for a Companion to go to Germany w^t him to examine the Volcanic district of the Tyrol &c. mooted the subject but declined personally.

Sunday - Wrote notes on Shells (Testacea) found dur^g ramble, and posted to Lees for Chronicle. viz. Zua lubrica: Zonites rotundalus &.
Helix rufuscens. var. albida

July 1856

Friday. July 4. To Birmingham. Lunched with Wm. Cotterell. Walked to Highgate after dinner & took tea with the Millwards. Returned to town, and found Dr. Cotterell w^t his Brother – chatted an hour and ret^d by last train.

Saty. July 7 [*should be 4!*]. Wrote to Baxter on Ophiolatry, as requested.

Sunday. July 6. St. Georges in Morñg. Mr. Boyle.
Afternoon – walked to Stantland – Orchii in great plenty, but only the ordinary species. Valvatu piscinalis from Hoobrook pool. St George's in Eveñg. Mr. Hill. Brought G. Friend up, and read "Astle" till 10.

Wednesday. July 9th. To Worcester by 7 a.m. Called on Baxter, found him at Llanberis botanizing. So walked to London Rd. and looked in at Lees! Just Starting to Droitwich, so walked to Station together.

Mem^d. The Leopard's Bane mentioned by Eliz Brown is rare, but noted in Salopian Flora as being found at Astley.

Met Revd. G. Thompson of Cradley at Station, & took him w^t us. At Droitwich Station met Wm. Mathews, Mr. B. Maund (of Bromsgrove) & a Mr. Smith Senr' of Droitwich. Looked over Smith's

rosary, and also at a mass of pure Graphyte (Plumbago), that he found in a bed of Red Marl Clay about 5 feet from the surface. Very curious how it could have got there.

To Revd. W. Lea's to Breakfast, there met Revd. W.W. Douglas (Salwarpe) & Rev^d. H. Pepys. After breakfast started to Lime quarries where searched unsuccessfully, but a workman found a tolerable head of Ichthyosaurus intermedius, & a very fine rib. Astrea, Nucula & Pholadomya the only bivalves.

Crossed the fields, first finding ~~Spirea-Phillipendula~~ Spirea fili pendula in profusion, a sight Lees designated as one "that a man may never see again in his lifetime." Orchis pyramidalis growing abundantly and the common Orchis maculatus (O. mascula also Linn). The layer Spirea ulmaria blooming in the ditches.

Two copses in this neighbourhood are respectively called Great & little Moonshaft Copse, Puckstone Copse (a fairy haunt), and Fourmens Copse, (a parallel case to Shakespeare's "Three-men bartle".)

Such names are given them in the Table of "land to be turned up in turn", which is against the wall of Hunnington Church. [*This has to be, from the geography of the trip, Huddington not Hunnington.*]

A few ancient names of places taken from the MS vol. of Grants temp Jac. I.

Laddon meade]	
Litle meade]	
Dicks leasowe	}	Gloucestershire
Larkmeade]	
Doggeshope]	
Shepehowse meade]	
Prior's meade]	Somersetshire
Crabtree thicks]	
Bread-rash]	
Thake marridan Copse]	
Quinton tonge	}	In Solsey Forest
Atterberries Copse]	
More Prentise Copse]	
Launcelotts Hallowses]	
Combe smyte]	
Peter pole	}	Warwickshire
Nether smyte]	

Cæsar's Howse in Thames St. London mentioned AD. 1615.

Sunday July 27th. To Habberley in afternoon, thence to Trimpley, called on Henry Crane, met his brother the maltster there. The quarry sadly knocked about – nothing new in Cephalaspides. Called on my way home on Geo Crane. Harding (Franche) and Mrs. Frost. Found Asplenium trichomanes in abundance on rocks at Habberley Wood.

Monday 28th. Mr. Maund (Bromsgrove) called, he being with John Amphlett, talk of *A. trichomanes* &c. he mentioned how luxuriously it grew in the Ran Dan Woods.

Wednesday 30th. To Droitwich with Mr. Ground to fetch the Saurian remains from St Peters. Started at 9.20. Called on Mr. Smith & looked over his Fern Garden. Called with message on Miss Harvey – (going to be married to Mr. Mudlow of Ledbury.) Then to St Peters. Mr. Lea not at home, so walked on through Dunhamstead to the Quarries — I obtained from the quarryman some fine vertebrae, and ribs of *Ichthyosaurus* which had been laid aside for me. (*I. Tenuirostris* - Buckland). Walked over the fields to Himbleton, where dined at the Harrow. Himbleton Wake, a very primitive fiddle, and abundance of village dancers, chiefly quarrymen.

Ground told a tale of a country half pint he once came to in contact with, to which you were compelled to fasten a string, to prevent it going down with the cyder!

After dinner to Saldings - to obtain the rare *Spergularia marina*, which grows in the saltmarsh. Abundance of it. Then to Himbleton Church; churchyard covered with *Geranium pratense* in full bloom.

On to Hunnington [*most certainly Huddington*] and so back along the French Lane to St Peters. Abundance of *Rest Harrow*, *Ononis* and *Genista tinctoria*: also the water Dropworts (*Ænanthe*).

At St Peters called for the Saurian remains, which found very fine, took a Quarryman to carry them to Station, they being very weighty – nearly 1 cwt.

Home by the 9.20 train.

August 1856

Friday. Aug 1. Up at 4. clearing the Saurian bones, found the principal to consist of portions of the vertebral column, a tolerable sternal arch – a splendid humerus, an attachment bone of the anterior paddle; many coprolites, a good clavicle, perfect and some portions of the lower jaw, very fair, one with many teeth in position (and loose.).

Saty. Read Sowerbys "Fern Allies", and Johnson's British Poisonous Plants, took notes from each.

Called on Mr. J Amphlett, who gave me several desirable MSS on Geology compiled by him, and Powell, who went round North Wales with Murchison.

Sunday. Walked with Ground in afternoon to Habberley, to show him the *Erodium maritimum*, *Corydalis claviculata*, *Samolus Valerandii*, and *Verbascum virginum*, (the two last we could not find) In return, he took me to the habitat of the ~~Blechnum~~ *spicant*, where those noble fronds in the Union Garden were obtained, the *Ophioglossum* (Adder's tongue) – "Nidus-avis" *Orchis*, & *Pyrola minor*, all in Habberley Wood. *Adiantum Nigrum* peony on the rock at the head of the valley also in profusion on the right bank of Shatterford Hill. Home at 7.

Friday. Aug 22nd.

Cleared out a very good sclerotic circle of the eye of *Ichthyosaurus tenuirostris* from the Lias of Hunnington [*probably Huddington as before*]. How much this bony circle approaches that of the Golden Eagle, which is about its only recent type.

Mem^d. In clearing between the ribs of I. Intermedius, noticed the undigested scales contained in the mass to belong to Pholidophorus limbatus a diamond shaped scale - enamelled.

Crinoidiæ

Encrinites moniliformis is the one with variously marked ossicula.

Mem^d. joints of Pentacrinites basaltiformis in the inferior Oolite of Dover's Hill, near Weston.

Saty Aug 24th [actually 23rd!]. Started to Ludlow, through Wolverhampton, Stafford & Shrewsbury. Travelled from latter place to Bromfield Station with Mr. Deppa of Craven – a geologist – who went with Salter last week to Longmydd. Walked from Bromfield across the Racecourse to Hayton. Very warm. (Mem^d. "Onibury" must be Coneybury or burrow.)

Hayton at 4. Tea'd there w^t Miss D & Joseph. Fishing afterwards – then round the grounds till supper, plenty of Polystichum lobatum, very fine on the banks. Circea lutetiana & Dianthus armaria abundant. Slept at Hayton.

Sunday Aug 25 [24!]. Walked to Hopton Cangeford to Dinner with Miss D & Joseph. Church in afternoon. Measured an oak near the Church 15 feet round, sound. Met Clark of Downton. Slept at Hopton.

Monday. Aug 26 [25!]. Walked with Rowland to Targrove Quarry, through the Downton Woods. Cornstone of Old Red with a fish bed - unknown to the Ludlow men, (as I afterwards find on enquiry.) Cephalaspis Lloydii Orchus spines & a scale of a Ganoid, allied to the Macropoma of the Cret. new – (Mem^d to show it Symonds.) Cyclostoma elyans on slabs – Helix pulchella & Clausilia nigricans on Walls at Downton. Epipactis latifolia, in the grove at Downton

Through Downton & so back to Hopton to dinner, passing the "Cuckoo-pen". Afternoon – cross Mr. Roberts' land to the Devil's Mouth Quarry, where Cephalaspis Lloydii is tolerably abundant, and Holoptychius nobilissimus. 1 fine back found, together with Arm of Pterycthyx – latter in Cornstone.

Walked to Hayton to supper, laden with these treasures.

Tuesday Aug 27 [26!]. Drove to Leintwardine with Joseph, through Bromfield & skirting Clive's place. Examined quarry of Upper Ludlow on Hill – the usual bivalves & Orthoceratites. Then looked over Mocktree Hill Quarries of Upper Ludlow – very fine Pentamerus Knightii nothing else noticeable – save beautiful Athyrium filix femina, clothing the banks.

On to Leintwardine – putting up at the Bridge Inn. Met with Mr. Lloyd, an American, settled down here, went with him to famous Church Hill Quarry, where Meredith, a keeper on the fishery, found the Starfish first – some 3 mos. back. The quarry lately visited by Salter, Lightbody & Cocking of Ludlow &c.

Lower Ludlow – Asteridæ very shy – only a few arms findable – Pterygotus problematicus scales in fine order – Cornulites & Serpulites longissimus tolerably plentiful – Graptolites plentiful and very good. Orthoceras laterale, Orthis & Orbicula lævis &c.

Met Mr. ~~Andrews~~ ~~Broughton~~ Roberts there. Drove on with him to a quarry of ~~Upper Ludlow~~ Wenlock shale where a good eye of Calymene Blumenbachii turned up, but nothing else.

Thence to Burrington. Put up at Mr. Sheriff's and examined the quarries of Wenlock shale abundance of *Calymene Blumenbachii* in the nodules of shale, with *Orthoceratites* & *Euomphalus*, obtained fine specimens of these, with a very good *Murchisonia* (*Turritella*).

Started again – drove through Ringwood Chase to Ludlow. Met Mr. Lightbody on Whitcliff. Dined at the Bull at 6. with Joseph. To Hayton at 10.

Wednesday. Drove to Ludlow – and spent the day on Whitcliff &c. with Mr. Lightbody. Examined the Upper Ludlow & Aymestry at Whitcliff. Abundance of *Orthoceratites* & *Serpulites longissimus*. Thence to the Ludford fish bed in Upper Ludlow Rock. *Pterygotus* in the immediate neighbourhood of the fish bed – obtained specimens from this & the Downton Sandstone, which overlies it.

Trochii & *Phyllopods* in the Downton Sandstone. At the railway cutting near the Ludlow Tunnel, found many plates, palpi & limbs (claws) of *Pterygote* – and *Eurypteris*, with specimens from the fish bed of the Transition shales. Highly micaceous, from its proximity to the Tilestone, and abundance of *Onchus* spines & plates of *Cephalaspis* in it. This is remarkable, as bringing the *Cephalaspides* to the very bottom of the Old Red. Joined Miss Dixon in the evening at the Bull, and drove back to Hayton.

While at Ludford met Mr. Whitmore Charlton. The Dixon's received a letter from a Peter Winpenny, a Quaker (Cheshire). The Parsley Fern Lightbody tells me is found on the Titterstone. Hayton at 9. Wrote to Symonds, Edwin Lees & Deppa of Craven.

Thursday. Aug 29 [28!]. Visited Quarries of Central Old Red at back of House – thence to Sutton Hill Quarry – where abundance of good *Cephalaspis Lloydii* occur in the Cornstones; in the remarkable blueish purple plates mentioned by Symonds. Found a good Bufonite in the Cornstone. Dined at Hayton. Rowland brought letters over from Hopton – from Edwin Lees & Cotterell (Peter) at 4. Joseph drove me over to Sambrook's – where tea-ed.

Walked on to Bouldon and examined a quarry of Cornstone &c. on the hill overlooking the village, traced the fish bed I discovered at Targrove through it. (6 miles N. of Targrove.) Very good chrySTALLIZATIONS of Lime (Carbonate) in the quarry. Quarry curiously contorted in dip – thus, (vide section). Supped at Sambrook's and home at 10. Mare ran away with us – got to Hayton bravely with no mishap.

Friday. Aug 29. James Summers called at Hayton. Walked to dine at Hopton Cangeford w^t Miss Dixon. Mem^d. Coates of the Globe Tavern Harp Lane Ludlow is the best place to get a glass of sherry at: (on the authority of Dr Bowles).

After dinner walked with Rowland to Downton Hall. Looked over some old books, belonging to one Judge Hall – an ancestor of the Rouse Boughton's, temp. James II, a lot of Persian books w^t MS notes by Sir William R Boughton – a curious record of Warrants & Grants temp Jac I & Chas I. (which I borrowed to transcribe) – and some other rarities. Tea-ed with Clark – and some farmers. Went to Mr. Hill, the Agents house to examine some Galena which had turned up in sinking a drain near. Highly curious – a positive stratified bed of Galena in the Cornstone of Downton. Hill gave me specimens. Walked back to supper at Hayton.

Sat. Aug 30. Drove to Ludlow at 7. to catch the Coach for Worcester. Having a little time, looked over the Museum again. Very fine collection of Carboniferous plants from Ironstone nodules of

Coalbrook Dale. Many Asteridæ from Churchill Quarry, &c. Took coach to Worcester, arrived at 12. Went to Lees, and dined with him.

Mem^d. Lees related to me at dinner, that while at St Andrews he was struck by the circular impressions made in the sand by the decay of the "Jelly fishes" (Acephalæ). Really supposed that the "Mare & colt" tracts in the "old Red" were produced by the decomposition of such animals – I fear this is very far fetched. Is writing a treatise on the age of plants – believing every plant, or rather each family to have a relative antiquity; some older, in point of introduction than others; similar to the 30 successive periods of Geology. Lichens he supposed the most ancient as individuals – many being 1000 years old.

Produced the Old Red Galena – and related its position &c. upon the micaceous – (large grained) Sandstone, which lies upon the Cornstone &c.

Lees exhibited the very fine Hieraceæ he had brought from Scotland with him - also many specimens of the new Fern Pseudo thyrium (or Polypodium alpestre Sowerby.) Talk together of the Cheltenham Meetg. Murchison's paper on the Fish beds of Ludlow & Symonds on the Hatfield Conglomerate, which he denies is of glacial ~~form~~ deposition, but is rather the sea beach of the Permian period: in opposition to Prof. Ramsey. Left him at 5 and so home.

Found among other letters – a pressing one from Dr Jones of Cleobury. Wrote him a reply, declining at present. All well.

September 1856

Sept 2. Townshend & wife called from Bridgnorth. Met the Bury's at J Burrows. Sat an hour with Ground. To John Harding's to supper.

Sept 3. Called on Mr. Buchan to mention the possibility of finding Lepidodendrons in the new Quarry at Witnells End.

Sept 4. Wrote to Dr Cotterell & Rev L. F. Dixon, with Rhyming Charter of Hopton – preserved by Foss in his "Judges of England" Vol I. Margetts (Oxford) called to see China w^t John Burrows. Ordered Noake's Book on Worcestershire "Notes & Queries", & Symonds "Observations on Plurality of Worlds".

Sunday. Sept 7. To Harvington to tea. Sat with Mr. Guest till 7. Sent the "Owlet of Owlstone Edge" by Paget to Fanny Millward. A very well-written thing – some little romance attached to it, by the fact that Paget has just been married, (ætat 40); and the "Hoot exemplary" - is intended for the lady of his choice.

Tues. Sep 9. Mr. James Offley (of the Cliff) to tea at the Cottage. Walked w^t him – looking out for a house &c.

Wednes. Sep 10. Started to Habberley &c. with Lees, who came over on purpose, and Ground. A very successful day. Roamed round Trimpey, lunching at Henry Crane's – teaing at Creswell's of Romsley. Found the following "good things".

Sysymbrium Sophia - Habberley Lane, first time in Worcestersh. Solanum Nigrum. Nepeta cataria - Saponaria ditto - Geranium cicutarium - abundance – Lactuca uralis, Trimpey - Pyrola media – Epipactis purpurata Neottia nidus-avis - Ophioglossum vulgare - in Habberley Wood. For list of Fungi see below *.

Picris pieraciodes - Trimpley.

Mem^d. to obtain Purton's Midland Flora - 4 vols. & Parnells British grasses, & Hooke & Taylor's Manual of British Mosses.

Back to Cottage at 10 p.m. Lees slept there.

Thurs. Sep 11. To Comberton with Lees - found abundance of Osmunda regalis in the ditch at Spennells; also Myosotis repens, & Mentha rotundifolia - both very rare plants. Lees returned at 4. p.m.

Tuesday. Sept 16. With the United Worcestershire & Malvern Club to Habberley & Trimpley - dining at the Park at 5. 50 sat down. Vide Newspaper cutting. Found a number of the scarce variety stagnicola -(leach) of Cyclas cornea, in the pool on Trimpley Green. Mathews took these notes of dip &c.

"Lower Soft New" - rock <u>below</u> Pekkit.	21 deg. dip	}
	10 deg. W of N	}
Base of Conglom ⁿ . top of Valley.	5 deg. dip.	}
	40 S. of N	}
Upper Old Red. Park Farm Quarry.	dip 5 deg. W.	

Saturday. Sept 20. Mr. Theodore Galton came over to arrange abt. the Meetg. of the Worcestersh^r Architectural Society. Introduced to him by Mr. Boyle, and took him to Caldwell &c. Meetg. fixed for Thursday. Speaking wth Mr. Galton on philology noted how easy the "Clee" is derived from the Saxon Lea - or Leagh - being simply the word aspirated in the Welsh manner - thus C'lea as Llangollen being pronounced C'lla - in common with every other L.

* Rare Fungi found in the Habberley District on Sept 10 & 16 by Lees & myself.

Agaricus necator of excessive rarity.

Merulius - very fine & good. (drooping margin to pilus)

Agaricus rubescens - rare

- volvacious - rare

Geoglossum - curious & rare

Clavaria anthocephala

Agaricus Xerampelinus - rare - with purple stalk - purple & red pilens, and bright gold yellow gills.

Polyporus versicular - on Ash stump at Trimpley

- sulphurous at Shatterford on Apple tree.

Agaricus haemeticus - (the poisonous one.)

Clavaria fragilis - abundant at Shatterford & in the Valley.

Bryum ligulatum - in the Valley, (rare little moss.)

Returning from Shatterford, put in at the 3 Crowns at Franche - heard there the history of old Brecknell who was buried in a garden at Honeybrook in 1780.

Particularly noted at Romsley the great Sycamore behind Miss Creswell's house. Lees regards it as the largest in the County.

Abundance of Solanum Nigrum under the rock, opposite Spring Grove gates in the Bewdley Road.

Who says "It is the destiny of England to exhaust every form of error before she reaches the truth?"
It is quoted by Mr. _____ in letter to the Times Sept 19.

Query, the cause of Spider's webs on foggy mornings? It is a curious question. Does the peculiar state of the atmosphere excite the spinnerets? but these, being of course at the will of the insects - what is the influence that prompts the spider to spin? They cannot spin with the hope of catching prey, if so - they are the greatest example of a disappointed people in the range of life, for who ever saw a fly caught in a web on such morning. Flies have discretion enough to keep in doors till the sun has dispelled the fog. Do they not spin, rather to catch the fog? and this leads to another question - whether the peculiar humidness of the atmosphere is may not be grateful to the insect, and that it is incited by its appetites to retain it as long as possible.

Mem^d The Freshwater Limestone at Tasley. near Bridgnorth is interposed between the Upper Coal measures, first discovered by Murchison in 1831.

vide Proceed^{gs} Geo. Soc. Vol 1. p 472.

Sept. 16. H. Chellingworth sent me a little polyparous Coral Silurian (Cyathophyllum) which he picked out of the escarpment of New Red Conglomerate at the Foxholes - Franche. ~~This gravelly Conglom. being the beach of the Permian Sea.~~

Query? Has any pamphlett been published on the Spirit Land at Ealing - of Mr. Rhymer?

Sept 19. A very odd pamphlett by W. H. Smith, entitled "Was Lord Bacon the author of Shakespeare's Plays?"

Saty. Sep 20. Mr. Theodore Galton of Hadzor introduced to me by the Rev^d G. D. Boyle; went with him to Falkener's Crypt, and Caldwell Castle, to hunt up material for his paper in our Antiquities of next Thursday.

Sunday Sept 21. Walked to Trimpley & Bewdley - sat an hour w^t Baugh - looking over Engravings &c.

Tuesday Sept 23. Down to Worcester to attend meeting of Nat. Hist Society. To Museum, where met Symonds & everybody in the Clubs. Introduced to Capt. Guise & Dr Lancaster - Met Jones of Cleobury there. Attended lecture in the Hall, by Dr Lancaster - (for details see Newspaper Cuttings) Dined at the Bell afterwards with the Clubs. Home at 6. Dr Lancaster took my new fish remains to London for Salter -

Thursday. Sept 25. Elected a member of the Diocesan Architectural Soc. Field day of the Club at Kidd^r so joined them at Station in the morn^g. Attended Service St Mary's at 10. Then examined the Church, Rev^d Mr. Boutell - (London) & Mr. Bloxam (Oxford) - described the peculiarities of the monuments: The "Brass" in one of the Choir is of the oldest in the Kingdom - being dated 1415. There is a brass in a church in Hampshire dated 1408, but this has been since discovered to be erroneous. The arched and canopied tomb in the Chancel a fine example of the style of decoration temp. Hen VIII though the effigies are much earlier, temp. Henry IV. Exhibited rubbing of the brass belonging to K. Ankrett.

Went in Omnibus & 3 Cars to Chaddesley, being joined by Sir Thos Winnington, Mr. Roundell Palmer, M.P. & Lady Laura Palmer.

Stayed at Harvington and looked over the old Hall, under the guidance of Priest Brownlow. Nothing left, - carvings & tapestry taken away by Sir Robt. Throgmorton – only the priest's hiding places left. Then to Chaddesley; found Mr. White gone out - so obtained key of church, and examined. Mr. J. B. Walker read a paper on the architecture, Norman (late) on North side of Nave & chancel fine doorway on N. with zigzag mouldings &c. Glorious font, late Norman, superficially perfect, with moulded ornaments of dragons &c.

Mr. Boutell described the Monuments; assisted by Bloxam. The effigies of the Brothers Corbett, the only example in existence of a knight, (cross legged) and an Ecclesiastic (Bishop) in the same tomb - temp. King John (or Hen III.) Read the Abington MS. brought to the meeting by Sir Thomas Winnington : many valuable mens.

Read Pugin's Principles of Christian Architecture lent me by Mr. Gibbons - on Friday Sep 26

Chaddesley Continued –

Boutell spoke of the brass in the centre of the choir as being very choice & peculiar; a memorial of the ranger of Dunclet Park & his wife (A.D.) with the Forrester's arms – 11 children in effigy at their feet.

Church very much neglected - wants Mr. Claughton turned loose into it with a couple of thousand pounds.

East Window - a very beautiful example of middle pointed (Geometrical.)

Arched tomb on outside wall of church, South side of chancel. Vicar, Mr. Motteram, Thompson (Cradley) & Sir Thos. Winnington broke a crust with Mr. Court, introduced by me.

Then returned to Kidder. Dined at the Lion at 4, where joined by Rev^d Douglass (Salwarpe) Sir Thos Winnington in the chair. 41 sat down.

Adjourned to room adjoining St Mary's, and heard Mr. Galton's paper touching Kidderminster antiquities. The Parliament of 1296 contained 2 members from Kidder - (vide Mirror Vol VII p301)

Spoke of the crypt under Faulkener's - advising further research &c.

Then to Church; choral Service - with an old hymn, taken from the Salisbury Missal - sadly performed. Rev^d Thompson walked home with me & slept at the Cottage.

Friday. With Thompson to St George's Schools &c. Mem^d. Spelman thinks favourably of the claims of Rock as the Meeting of the Bps with St Augustine &c.

Sunday. Sep 28. Very wet - stayed in - Transcribed the MS of Warrants & Grants, temp Jacobus I & Carolus I - most interesting.

An Entomologist, according to the "Drayton Regulations touching descriptive words", is a grubmonger.

A very fastidious lady, in business today, requested a pair of large hose - the size a matter of importance as "one of her legs was not perfect" (!)

October 1856

Sunday Octr. 5. - Afternoon - to Habberley; plenty of Aquarian Xerampelinus, and Merulius in the wood. Down to Bewdley, along the Wassail lane. Tea'd with Baugh. Home at 9.

Monday. 6th. To London by 12.20. Excursion Train, met Rev^d. John Webb of Tretire, who edited the Roll of Bp. Swinfen for the Camden Society. Long talk on Townshend MSS. with him. Mr. & Mrs. Lowe & Mr. Biddulph - (Ledbury) in same carriage. (Mem^d. to know more of Lowe.) To Castle & Falcon. Adelphi at night. The Barney Williams & Wright.

Tuesday 7th. Met Colbourne (Rich^d) in Eveñg. and with him to the Princess to see Pizarro – gorgeous spectacle.

Wednes. 8th. Returned at 12 from Euston Sq^r. Came down with a very lively man - name unknown.

Sunday. Octr 11. Walked to Chaddesley to meet the Bury's _ Too early, so lunched with Court. At Church; took a seat in the B's carriage afterwards. Dined at Drayton. Miss S.A. Waddley sang divinely. Chatted till 8 then started. Called at Harvington - sat with Mr. Guest an hour. So home.

Mem^d. Mr. Webb has greatly erred in his note on Ancient Vineyards - appended to Bp Swinfen's Roll - he there states that none have been worked in England for 250 years, whereas as late as 1720 Vineyards were farmed in the neighbourhood of Hereford, and wine made, A conveyance of land in the possession of Mr. Biddulph of Ledbury speaks of the "Wine press" as being in good repairs, this is dated after the above given time.

Monday. Octr. 13th. Down to Worcester – meeting Lees at the Coach Office; and so to Broadwas to be enabled to attend the Malvern Meeting tomorrow. Dined & slept at E.B.G.

Turned out at 10 to view the eclipse of the moon nearly total at 11. Very fine night; glorious sight.
1

Tuesday. Octr 4. Walked round the Court &c. wth Lees. Noted the immense Blk Poplar in the Court grounds. 23 ft in circumference - branches extending 40ft. Abundance of Opegrapha on the bank.

On a willow near the Teme, a beautiful Thelephora noted - a purple polyporous fungus.

Started to Knightwick at 10. in the Ivyhouse carriage. Met there Dr Grindrod F.G.S &c. and his party. (vide Newspaper cutting for reports)

To Woodbury hill - Marchantia hoemispherica on a wall in the lane. (Vide cutting for fossils.)

At Woodbury. Asplenium trichomanes - Lastrea angulare & Scolopendrium vulgar –
A beautiful purple Thelephora found upon sticks under Woodbury: also much Idnum - (the edible fungus.)

In a coppice at the back of the waterfall many curious fungi turned up - among others Spathularia flavula - (very rare Clavarian fungus) The Geoglossum differs from the Clavaria by being tougher & harder. - Agaricus hæmeticus occurs also.

The Geoglossum is the common one –

Echium vulgare on Ankerdine hill – very fine and Orabanche major found by Lees on the hill summit.

Carraige came at 7 - and so to Ivyhouse.

Wednesday Oct 15. Walked with Lees to Broadley Coppice to look up the Fungi. Rewarded by finding the exceedingly rare Clavaria Herculeana - (club of Hercules) – of great size and beauty. Immence Agaricus Elephantinus – very abundant – and superb Clavaria flava, of the most brilliant orange, Agaricus stipitus - (brown) and Clavaria abietina - (the little clustering staghorn Clav.)

Mr. Turton - (of Lulsley) read a letter he had received from his friend the Rector of Colchester in which he spoke of the German Legion who are quartered near that Town getting married with one consent – from which – as he says – "I seek no small advantage" – "the varlet heathens" – nineteen being in Church last Sunday – and not a man with less than 14 consonants in his name – all marrying prostitutes &c. Mem^d _ in smoking ways, Turton is quite a Parrite.

Lees considers "Housing tree" the derivation of Hussingtree - very likely - there being yet remaining some gigantic old elms & oaks in the centre of pasture lands - where the cattle may have housed themselves &c.

Mem^d The Trilobite of the Caerodoc at Ankerdine is Phacops Downingia No it isn't GER p. Stokesie

Wednesday Eveñg. – Returned to Kidd^r wrote to Revd. John Webb F.S.A on Townshend MSS. as requested by him.

Noted a very fine Echo, which repeats twice, at Blakebrook; exact point being 15 feet below the South gate of St John's Church.

Sunday. Oct 19. Walked to the Cave in the escarpment of waterstones at Segg Hill. Found in the Coppice, abundance of Geoglossum – and some curious Thelephoræ. Home to tea. Hewett with us at St George's in evening to hear Mr. Villiers. Very much crowded of course.

Monday. Oct 20. Mr. Villiers called; he being at Park Attwood. Complimented me on my collection of Testacea now in possession of Chellingworth.

Read some Sermons of Spurgeon in the "Park Street Pulpit", having bought them as curiosities. His style copied from Nicholas Lockyear (, AD 1640) and quite as rabid and coarse.

History of "Shakespeare's jug"

Tradition states it was given by Shakespeare to his sister Joan Shakespeare - who married a Hart - an actor. It was in the Hart family for many generations - in fact till it was purchased by Edwin Lees for 15£. He sold it by auction for 23 guineas - and afterwards it was sold for 30£ to an amateur at Cheltenham in whose possession it now is. Kerr has made fac-similes of it, which are selling at 7/6 each.

Lees related how a brother Botanist had started on an excursion this autumn with the avowed intention of eating some of every fungus he could meet with, as he did not believe any had deleterious qualities. After he had partaken of some scores with impunity he, and his theory were alike upset by one, so far deleterious, that it was w^t much difficulty his life was preserved.

The Hydnum, Lees informs me, eats like oysters - and is delicious, when toasted.

Tuesday. 7. p.m. Sat an hour with Ground, taking the MSS of records? w^t me. mem^d, the "??bac" must be "ibidem", and "?stin"

Wednesday. Oct 22nd. Walked to Habberley in morning - a glorious find of fungi in the wood, plenty of Geoglossum, the species w^t mealy anthers. Clavaria fragilis & Agaricus vaginatus. Letter received this morning from Eliz. Brown, enclosing [there is a blank gap here)] found by her near Quatford. Home to dinner at 1. Met E. B. Guest in Church St and sat an hour w^t him transacting business &c. Took the 4.10 train to Manchester - via Crewe. Arrived at 9. To Clarence, Spring Gardens.

Thursday. Wet, (of course.) Business all day. Bought Page's "Advanced text Book of Geology" (a capital compendium of the present knowledge of the Science) - and Gerald Massey's "Craigcrook Castle".

Noted a new word in the Sun of Oct 22nd 1856 - "Thereanent" - (Sco. anent, concerning, as touching.)

Noted the warehouse now erecting for Watt's; perhaps the finest in the world - certainly the most anomalous in style. [*This is now the Britannia Hotel, Portland St*].

Friday. 24th Octr. Came down by the 9.50 train, reaching Kidder. at 1. Nothing of interest occurred during travel.

Denison condemned yesterday.

Saty. Octr. 25. The Bury's called.

Sunday Oct 26. In afternoon walked to Shatterford - looked round Coleridge Wood for fungi - but did not find anything noticeable, except ~~Uva~~ Exidia ----- on a stump.

(Picked Sphaeria ----- and plenty of Geoglossum in my garden.)

Called at Franche in the evening, and talked with Ball respecting the subterranean passage under his house in Coventry St tenanted by Faulkner, whose account of it I found to be correct in every particular.

Monday Oct 27. Received letter from Rev^d John Webb (Tretire Rectory Ross) acknowledging the MS extract from Townshend MSS I sent him.

Mr. John Amphlett called – and gave me some interesting notes touching the Court Rolls of Ombersley – a transcript of which he promises me. The Manor originally belonging to the Abbey of Evesham. Court Rolls were tube 6th Jacobus 1. – &c.

Received a package of mosses from Acleton; only one rare – which is not "findable" here. Found it Novr 1st at High Habberley.

Thursday – Oc^r 30. Received a letter from Rev^d W.S. Symonds F.G.S. stating that the ichthyolitic remains that Dr Lancaster took to Salter for examination had turned out good. One – the small plate, allied to the Macropoma (of Cret.) was New – and Salter intended to send it to Sir. R. Murchison to be figured in his Ed. of "Siluria" now coming out. The layer plate a very fine Pteraspis ornatus – a very rare fish of the Cornstone. The supposed Bryozoa, turns out ichthyic but nothing definite ascertained about that.

Looked over my Cornstone drawer at night, and cleaned a beautiful vertebral column with plate attached of Pteraspis ornatus – the vertebrae chalcedonized.

Letter from Mathews (W^m Jun^r) - at Reading.

Letter from Rev^d John Webb.

Wrote to Lees, detailing the Cornstone find, as above.

Friday. Wrote to Rowland Dixon, requesting him to bring (when he comes), the pieces of Cornstone I broke out of the bed at Targrove Quarry.

A wonderful tale about that at Worrals Mill near Arley, a stone had been found which sapient neighbours declared must have been brought from the Indies – (how, not stated) and which, moreover contained every known precious stone – according to report – and in quantity enough to depreciate the Jewel Market. I shrewdly suspect the glitter of some few quartz chrystals has become multiplied like the sparkle of the black cats in the cellar – nine fold – to the amazement of men who credit any amount of impossible occurrences – and to the much annoyance of those – who like myself regard the district as virgin ground to the Geologist - and accordingly take an interest in all pertaining thereto.

Walked round Chester Lane in Eveñg. with Geo Griffiths Jn^r.

Some interesting letters in the Times respecting the beds of Sandstone presumed to be New Red struck upon while boring for artesian wells at Highgate & Horsham. One from Mr. Burnell the Civil Engineer stating the particulars of the boring at Horsham - how after piercing through the blue clays of the Weald, the borers came to the beds of red clay, interstratified with sandy conglomerates - which general testimony gave to the New Red. And that according to Order of position – the Carboniferous w^d lie beneath these beds, at the depth from the surface of 1700 or 2000 feet. (This in the Times of Oct 30.) Today's Times gives a curious letter, but one of little value, from "Post the Coals" who avers that in an old watercourse some 30 miles from the town, coal occurs at a Depth of 200 feet only – very little worth – as the letter bespeaks an enthusiast & no Geologist.

The Building now erecting for Crane & Barton's Warehouse is sadly spoiled by the too great ornamentation applied to the upper stories. The engrafting of fluescent Italian upon the grandly severe Norman is attended with much danger of entire spoilation of noble effect.

November 1856

Saturday. Nov 1. Walked to Habberley in morning – nothing turned up of moment – searched for lichens on the rocks below Mr. Crane's (High Habberley).

Sunday. Afternoon walked to Habberley & Trimpley with Geo Griffith Jr. giving him a lesson in Geology. Found abundance of Sphærea polymorpha on stumps of trees &c. To Hall's Barn – called on Mr. Henry Crane Sen^r there met Mr. Hillman (Yarhampton) & David Crane (Trimpley) Sat an hour, then back – Old Church in Eveñg.

Monday. Nov 3. Letter from Edwin Lees – the fungus found by Miss Brown, supposed by me to be a Nidularia is Thelephora tuberosa (Greville) – a very difficult fellow to make out. Lees figures a kindred species T. Coralloides - which is larger, taller & more branched. Wrote of the great plenty of Sphærea on stumps this season.

Wrote to Rev^d. W. S. Symonds – to Mr. Salter – to Miss. E. Brown – (w^t Lees' decision) & Jones (Cleobury).

Friday. Nov. 7. Received a packet from the Ec. Geolog. Mus. inscribed "O.H.M.S." – which contained a filled "form of thanks" from The Lords of her Majestie's Privy Council - begging to convey on behalf of the Government thanks to me for donation of new Pteraspis &c. also a note from Salter, with sketch of fossil sent, and opinion. How large such a note looks on paper! Another circumlocutionary "form" enclosed from Murchison.

Saty. Nov 8. Charles Lewis came in evening by Omnibus. Slept at Cottage.

Sunday 9th. Started at 8 w^t C. J. Lewis & Fred to Chaddesley Church – reached it at 10. Examined antiquities &c., before Service – White preached History of Joseph a good logical sermon. Walked to Drayton after service. There dined, meeting Mr. & Mrs. Waddley – Charles sang with Miss W. for 2 or 3 hours - much pleasant chat. Home at 10 via the Pools & Harvington.

Monday. 10th. Charles returned. Speaks much of a young Widow who is a colleague of his in the Bridgnorth Choral Union. Six small children in the case, which however does not prevent Charles paying her much attention - nous verions. Kately Mayor.

Tuesday 11th. To Music Hall Concert in Evening - but halt! First comes morning's work, which commenced by taking Mrs. Bury Mrs. Waddley & Polly to Habberley - a rare morñg for brisk walking – which however Mrs. W. was not up to – so felt thankful my proposition of a car was decided on. Walked through to Valley however; then to dine at the Cottage. Ladies left at 4. Very few at Eveñg Concert and not at all attractive.

Wednesday. Wrote to Mr Bury, respecting the invite to Drayton. John declines at present. Also to P. A. Cotterell on behalf of poor Frost.

Mr. J Severn Walker called - took him to the Crypt at Falkener's - agreed in opinion on to date. Late Norman (Transition) circa 1170. Noted an ambry under the two light window in first vault.

Read a little more of Lockhart's Scott - How charming the "Gurnal" is! Came across "Vicar's Memoirs" (Cap^t Hedley 97th) now in its 40th thousand. Skimmed it - impossible to read a work so written. A beautifully written village tale out by the author of "The Heir of Redcliffe" (or rather authoress). Read it with infinite pleasure - much to be commended for so well chosen a title "Ben Sylvester's Vow", and perhaps as truthful a delineation of village life, and childish hopes & affections as ever was written. How is it that every bright child with gipsy look & black hair is named Fanny, both in real life & fiction?

My ancient enemy - the Influenza - being in the neighbourhood, has just looked in - I hope not to stop.

Looked in at the Free Library in evening, and copied the following from Nash.

Amphlett pedigree from -

"William Amphlett Esq]	Frances, daughter of
Lord of the Manor of Hadzen]	John Sparrow of Clent
temp Jacobus I.]	Vol I. p 25's
and]	

In the Ombersley Court Roll. 6th Jac. I. the name Margaret Amphlett occurs - the oldest "life" on the Roll.

A street book hawker this evening was loudly requesting passers by to purchase his "History of Two Orphans neatly bound and embossed, for the small sum of one halfpenny."

Thursday Nov. 13. Fine bright day.

If the Influenza is like love, "born a twin", I'm sorry for the man who has the fellow cold to mine.

Walked down to Ric^d Ankrett's in evening to examine an ancient brass padlock in his possession - found among debris in one of the towers of Dudley Castle. Heavy & massive, the principle that of the wheel.

Friday. Nov. 14. Today, a man, while getting up potatoes in the field which joins the back garden, turned up a very good shilling of Cromwell - 1653 - of the common type - but in beautiful presentation. Brought it to the shop to show me.

Mem^d a good season for Agaricus campestris - (Com. Mushroom).

Obtained from Friend, several yearly Reports of the Worcestershire Nat. Hist. Society, & a valuable series of maps of Cornwall Mines, geological colored - also 30 numbers of the Morning Chronicle 1820 - 23. - from a quantity of waste paper brought from Honeybrook.

(Languid Notes)

Agaricus Muscarius – (Flyblown α .) abundance at Habberley (Orange red – spotted white)

~~Cartharellus cibarius of immense size growing from an Elm at Wilden. Nov 16.~~

Agaricus comatus. (Maned α .)

Hydnum repandum – (Edible)

Wanted - Habitats for

Clavaria rugosa

- coralloides
- amethystine.

Nov 15. to 22nd. Confined to the House with Influenza.

Saty Nov 23. Baugh called. Bought from him – "The Wall Spring of Sciences" – by Blundell 1602.
Black Letter 8^{vo} having on one page this fine autograph in the style of the period

"Thomas Bucknor
verus hujus libri
possessor.

Anno Domini 1653.

p-sent . 81. 46."

Bought the Commonwealth shilling alluded to on Nov 4. Saw a fine lot of Roman 3rd brass in the possession of Yardley of the Vine - Horsefair bid him 15/- for them - refused.

Letter from Rev^d. W.P. Turton of Alfrick, on fossil Ichthyology &c. Also one from Rev^d Tate of Axminster hoping to see me in the Spring, wrote to accept. Letter from Symonds, thinks it likely he may come over shortly.

Monday. 24th Nov^r. Read Vol 20-21 of Sowerby Eng. Botany.

Mem^d the common Cap lichen is

Lichen pyxidatus - the red coral one is

L. cocciferus - and the long stemmed yellowish white – toothed summit dotted w^t red is –

L. deformis.

Read an abstract of the Ombersley Court Roll lent me by Mr. John Amphlett.

The death of Miss Anning - I find took place in 1850.

Obtained from Friend a fine Vol. of "The Weekly Worcester Journal." for 1725-6 in beautiful order containing about 70 papers – for 2x3 - wrote preface to abstract of the interesting news, for which are p.207. (ante.)

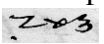
Sunday. 25 Sat an hour with Ground - exchanged a Blk Letter Bible 4to 1620 with Ground for Babington Nat. Sys. (the 12/6 Ed. 1836). Read Balfour's new work on Physiological Botany, lent me by Miss Corrie. Letter from Rev^d W.S. Symonds, F.G.S. stating it is likely he may be in Kid^r for a few days tomorrow, with his brother in law Mr. Kent, (Upton) with whom he intends staying at the Lion.

Ascertained that he came by the 9.30 train p.m. so expect a charming excursion with him tomorrow, but o dear! for the fallacy of human hopes - now at 10.30, it is snowing fast.

Wednesday - Nov 26th. Snow covêrg the ground, but not to any depth. Mr. Symonds and myself started to Bewdley at 10.

Examined the trappean Brecchia covêrg up the pebble beds N.E. of Bewdley Bridge - Mr. S. of opinion the sandstone was Permian as well as deposited brecchia. Pressed on to Gray Green. Noted the junction of New Red & Permian below the green - correlation of beds not very clear. - Visited next the quarry of Permian Sandstone on the W. flank of Warhill wch Mr. S. pronounced of great value in determining the character of the angular fragments of trappoid rock - which rise above it, and form the summit of Warhill. He gave it his decided opinion that the brecchia was nothing more than this Permian Sandstone altered by fusion - and that this was the true heading of the Longmydd grit of Romsey. Some of the beds exposed in this quarry are so exactly similar in lithological character to the Cornstones of the Old Red - that they are known as Cornstones of the Permian - took the dip, which was 20 deg. E of S. Walked down the valley to Hall's Barn, conversing of the Hatfield conglomerate - which represents the Permian beds in the Malvern district is composed of the same angular fragments as Warhill, but much smaller - none larger then an orange. Symonds proposed that the Permian sandstones exposed in the quarry we had just left should be known as Longmydd grits in situ. These beds of Permian are wonderfully developed in Scotland - much finer than in this Kingdom. Walked to Mr. H Crane's and lunched. Examined the Old Red Quarry afterwards, but only found some insignificant plates of *Cephalaspis Lloydii*.

Mr. S considered it probable the narrow band of carboniferous which dips under the Permian NW. side & divides that from the Old Red, was formed by drifted vegetation brought down by the current of the ~~New Red Sea~~ Permian Sea.

Walked to Trimpley - passing the Church - Mr. S. spoke of Winnington Ingram's fossils valuing them at  - except a glorious and in point of size unique wing of Gryllus from Lias - 4 inches in length. Met him as he came down, and desired him to see me &c. Passed Quarry of Lower beds of Old Red (Central), underlying the Cornstone near Park Farm. Showed Symonds the multi-dip appearance of the section of Old Red opposite this quarry - the result of compression & breaking up &c.

Called at the Park, but did not meet with H Chellingworth - Returned across Trimpley to the Longmydd grit quarry again, thence flanking the hill to the summit - crossing it and descending to the "Echinus" Quarry - which finely exhibits the character of the upper Permians, especially the beds of waterworn stones, the seabeach of the New Red Sea. Symonds engaged me to take a section for his new Volume of "Old Stones" considering it so fine a section.

Crossed the green to Habberley. Took Mr. S. to the section in the brook - (Wood), which shows the junction between the New Reds & Permians. Showing how the New Reds had been forced up the flank of the Permian, till at the point of junction they were vertical. Pronounced "very good". Descended into the Valley & walked home, conversing. Symonds related how the preceding week he had been at Shrewsbury, with Sir Chas Lyell, and other friends - examining, among other good things, a remarkable, and unique head of Rhyncosaurus (from Bunter Sandstone of Shrewsbury) with parrot like beak, which was possessed by a poor woman the widow of the man who found it.

The party were in exstasies over it & one Gen^l so much wished to possess it that he offered 10£ for it - which to his great surprise was refused! - the woman attesting she was not willing to sell anything found by her late husband. Size, 5 inches in length.

Speaking of his late tractate – reprinted from the New Phil. Mag. Symonds mentioned what severe things the critics had said of him - "what Religion" - said the "Edinburgh" "was the author of" - "We question very much if of any?" &c. &c. It certainly contains the boldest assertions on such deep truths I ever saw in print. Home at 5. So ended a charming day, devoted to Physical Geology - correlation of beds &c. so much needed in our District.

Found Jones (Worcester) waiting for me: sold him a parcel of ruinous books for Cl.72.3. Yarnold brought the Coins down, before mentioned, which I permitted Horden to secure for 18/= (Mem^d a good price.)

Walked home (Cottage) and showed Symonds some new fish remains I had obtained from Ludlow &c. He took a fine portion of the tuberculated skin of a ganoid - which he thinks must be new, but I am to hear more of it. Also another specimen - obscure what it is. Lent him the vol. of Weekly Worcester Journals 1725, before mentioned.

Thursday, Nov 27. Mr. S. called at 10. wishing me to accompany him to Dudley. Could not, being Market day.

Called at the Lion at 7. but found he had not returned. Supped at Friends with the Griffiths'. Arranged to go to Jones of Cleobury at 10 on Wednesday Dec 10th with Geo Griffith. To the Lion at 9.50, but no Symonds, so home.

Friday. Nov 28. Mr. Gittos came over. Called at the Lion at 7. p.m. found Mr. S. just returned, so sat an hour wth him. He related how on reaching Dudley, he had heard from Dr Cartwright, that Mr. Fletcher of Lawn's Wood had the finest Cabinet in that neighbourhood, so had gone over to him. Examined his collection, which he pronounced the finest out of a public museum - especially rich in Trilobites – Calymenes in wonderful perfection & size. Except the collection of Lyell's friend M Barrande in Bohemia, Symonds considered Fletcher's trilobites to be unequaled. Returned the Nov^r number of Geological Proceedings, (Journal) lent me on Wednesday Evêng by Mr. S. also the MS. of his Cheltenham paper, which I had perused with great pleasure: it contained his theory that the Permian breccia, as represented by the Hatfield conglom. was composed of fragmentalia of older rocks, crushed by upheaving & weight of super incumbent strata of the Malvern outburst. But now the discovery of the stratified Permian grits of Wassail has altered his idea a little. Returned them with a note or two of my own. Symonds stated that having slept a Mr. Fletcher's last night he was driven by that gentleman to Clent this mornng and had been spending the day examining the beds. The lower Permians - behind the breccia cliffs, composed of a curiously colored sandstone purple & marly in character. I fancy the purple sandstones – immediately in contact with the Carboniferous (Upper Old Red) may be considered parrallell beds in character.

Symonds had introduced me by name to Mr. Fletcher - who spoke of coming over to examine the Permians of Warshill - Symonds having spoken so highly of them.

Sat. Nov 29. Symonds returned: leaving me two interesting papers read by him lately to the Cotswold Clubs. ---- very cold day.

Sunday Nov 30. Stayed in the entire day. Cold very troublesome & not feeling at all well. Wrote the "Christmas Voices".

Preface to a paper on Ancient Newspapers.

A volume of the "Weekly Worcester Journal" for 1725.6 is now before us. It professes to dish up to its subscribers, all the most "Material occurrences Foreign and Domestick". How far, and in what fashion it fulfils its promises, it will be interesting to trace.

The Weekly W. J. was first established as the Worcester Postman in 1709, so that the date of the specimen before us gives its age as "sweet sixteen".

The then aspect of Journalism was very different to the present. In those well-tempered days a Journalist did not conceive it his mission to offer gratuitous opinion upon all things, human and Divine, so while the Coffee houses of Town were filled with noisy politicians, the great Agricultural mind slept in quiet, not being disturbed by visions of England's certain ruin unless the claims of party were satisfied.

Special correspondents were unknown, and the decree of Puritanism, which condemned gadding about, had many a strong hold in the hearts of the people.

In those days, a Statesman's head was safe on his shoulders, as far as the remarks of Journalism went, and the utmost punishment inflicted by the public censor upon the unpopular lay in allotting them the part of the evil genius in some Addisonian allegory or graceful epilogue.

Except these idiosyncrasies of the age – human nature was pretty much the same then as at present. Crime was equally abundant – but very much different in species.

Those were the days of coarse villainy and clumsy concealment – none of those artistic crimes, for ~~which~~ whose conviction so elaborate a machinery has to be set in motion, were then known upon the roll of human offences. The commercial morality of the times was far higher than at present, if its social morality was lower, for the tide of that cool, calculating traffic in human life, induced by the love of gain, had not set in. Old maxims of prudence honesty & good will to all regulated business; and it was left to an age of greater enlightenment to render them negative by practises calculated to destroy that very confidence it was their part to give.

Note on Othello

The great ranting passage, beginning "Whip me ye Devils" – note the transition to grief at the close – from noisy despair to deep unutterable anguish.

In the conclusion of the last act, note the Moor becoming aware of the deceit practised on him -- ceasing to take interest in external events – absorbed in mental preparation for his death.

From the Times Dec 2nd

Monday. Very busy – letter from Miss Waddley – enclosing a mem^d from her brother the Rev^d GP.

Waddley noting

Spiræa filipendula

Linaria Spuria

Aquilegia vulgaris

Colchicum autumnale

Thymus acinas

as being found in the neighbourhood of the Cotswolds – all common enough w^t us.

December 1856

Tues. Dec^r 2nd. Went by train to Hartlebury, intending to reach Elmley - much snow. Walked through Walton to Elmley - thence to Snead's Green to Mr. J. Williams. Lunched & walked along line back to Hartlebury - Lunched again at the Talbot, havg missed the train.

Wed. Dec 3. Started to Alveley - with Dixon & P. Waggon & goods &c. business all day - found time in afternoon to visit a quarry of Permian Sandstone at Alveley - which is remarkable for havg imbedded many nodules of a trappean rock - quite round, but lacking the enveloping coats of spherical nodules of Basalt. Some weighing a hundredweight - and standing 2 feet in height. Afterwards looked over a few fossils collected by Mr. Considine near Ryde - (Tertiary) & at the Giants Causeway &c.

Memd. Took notes of a carapace of crustacean in his possession, which by candle light appeared to belong to the Ludlow rock.

Afterwards drank tea at the High House - and so home. A heavy day's work.

Thursday. Dec 4. Nothing of importance turned up.

Friday. Dec 5. Went down to Snead's Green to the Williams'. Mem^d. Elmley Lovatt Church, the barest edifice in the county - and in internal arrangements - certainly the ugliest. Built of Waterstones. Stands on Red Marl. Home in the eveñg.

Saty. Dec^r 6. Wrote to Mr. Salter for information relating to Morris Handbook of British Fossils. Also to Rev^d W.R.A. Considine on the spheroidal nodules of trappean rock in the Permian Sandstone aforesaid. Poor Thursfield not expected to live.

Sunday - Windy day - so spent the afternoon writing "Voices of Christmas" for Friend - and making section of Permian beds for Mr. Symonds.

Monday - Dec^r 8. Poor Thursfield died at 8 p.m. fetched down from Cottage at 11. Settled w^t Rev G Pardoe respectg funeral.

Tuesday. Dec^r 9. Arranged to go to Cleobury Mortimer with G.G. in the morning. To Amateur Concert in evening - place crammed - in aid of the Dispensary - realised between ^3 & \3£. The chief singers being the Messent Family (Coventry) & E Saunders.

Wed. Dec^r 10. Started to Cleobury at 9 a.m. Very wet. Pulled up at the quarry of Carboniferous Sandstone at the back of the Horse & Jockey Inn - and observed abundance of Calamites & Lepidodendra. Reached Mr. Jones at 11. There dined and looked over his "Geographical & Geological Museum", as he styles it. Brought away a good ~~Holoptichius (?)~~ Petalodus tooth scale from quarry. Titterstone - also a dark blue mineral found in the Basalt of Kinlet. Mem. Backhouse the auctioneer very stupidly sinking for coal in the bit of outlying Carboniferous near the Cleo. Turnpike. Left Jones after tea & so home at 10.

Thursday. Dec 11. Nothing remarkable. Sat an hour w^t Ground in the Evening.

Friday Dec 12. Buried Thursfield at the Parish Church - mem^d. Disease - Pyæmia (J.A. says brought on generally by taking Zinc Catha).

Wrote to Prof. Morris for his Ca. Brit. Fos.

Saty Dec 13. Letter from Edwin Lees, stating that Prof. Buckman intends coming over to me at Xmas - must manage to receive "the Buck". Rev^d. ~~WR~~ R.A.W. called for information respecting the Coalpit worked by Hy. Chellingworth on the line of fault, which was filled by the earthquake of 1852.

Times of today has the death of Mr. David the Entomologist & Conchologist of Manchester.

Other Cleobury Notes. W. Jones had bought a great lot of Silicified wood brought from the plains of Egypt by Lord Valentia – he got hold of it at the Arley Cottage sale for about 5£. a few pieces he gave me.

Mem^d He has a curious fragment of silicified Sigillaria found in gravel near Cleobury. Also some wonderfully fine masses of ~~Old Red~~ Pudding Stone – ~~Lower Conglomerate~~ Millstone Grit.

Mem^d I think it likely the ichthyolite from Cleobury, given me by Jones is a palatal tooth of a Cestracion - Petalodus possibly of the Carboniferous Limestone. They are found in plenty at Oreton Limeworks on north spur of Titterstone.

Sunday – Dec^r 16. Walked to Habberley in afternoon. Remarkable swarm of small black caterpillars, w^l jointed bodies – 6 legs & antennæ, blackening the faces of the stones in the wall near Mr. Hooman's. Possibly the larva of the Ladybird.

Took a section of the Echinus quarry for Mr. Symonds – and walked down to Bewdly. Found poor Baugh ill with gout. Sat with him till 8. pm. then back to K. with Kench.

Received Cat. Brit Fossils from Prof Morris 2nd Edit.

Tues. Letter from Edwin Lees –

Wenes. Mem^d to take down to Worcester the Sphæria with root attached.

Thursday. Dec 18. To Worcester by 4.30 train. Looked in at Jones and bought Catlow's Popular Conchology – Krummachu's Elisha & Bohn Clas. Lib. – vols of Sophocles & Aeschylus. Called on Reece – examined a fine & rare series of bivalves &c. collected by him from Colwall Copse – including an undescribed winged Producta – and some new Modiolus.

Supped at Lees' with Baxter. Looked over the fine collection of coloured drawings of Fungi – made by Lees for his forthcoming work. Mem^d. Agaricus tigrinus, mentioned by Withering as found in at Powick, has been again found in the same place by Lees.

Hydnum graveolens (Delastre) – never before found in England, Lees has obtained from Buchen Grove, Worcester – and the very rare Phallus caninus with red cone-shaped pileus from Bromsgrove Lickey. Mem^d The Cantharelli has veins instead of gills.

Looked over Greville's "Cryptogamous plants" and Scott's "Stourbridge". The latter work mentions masses of "Carb. of Copper & Iron full of globular concretions in a micaceous sandstone at Drayton - Mem^d to enquire about it. Slept at Lees'.

Friday - Back to Kid' by 10.50 train. Arranged with Lees that Prof. Buckman sh^d come to me on Jany 5th for 2 days.

Mem^d a soiree to come off at Worcester during Jany.

Mem^d Lees informs me the Sphæria with a long stalk is in fact a Geoglossum and not attached to a chrysalis. No Sphæria is known so large.

Sunday. Dec^r 21. Afternoon walked to Hartlebury – gathering stones from the gravel deposits of the Severn straits. Discovered several fragments of Ostrea* [* Since discovered they are merely valves of Gryphæa (Lias) - too mineralized for 'Severn Strait' shells.] in silt interstratified with the gravel beds. Magnificent pebbles of Granitic & Scenitic rocks in the beds __

To G Humphreys to tea - walked home from Stourport at 7 –

Monday. Wrote to Edwin Lees on Gravel (marine) of Hartlebury. Synonyms of humanity & pebbles &c. Also to Rev^d Symonds on the teeth of Cestraciontidæ from Oreton. Mr. Smith (Droitwich) called - agreed to run down to Himbleton on Friday - breakfast with him &c.

Tuesday. Rec^d Invitation card for the Soirées of Worcs Nat. Hist Soc. Wrote to Smith (Droitwich – arranging & to Drayton.

Rec^d Invitation card for Sir C Hastings soirée at Worcester on Jan ~~16~~ 13th

Christmas day – Dec^r 25th. Very snowy and gloomy stayed in all afternoon dressing the Christmas tree &c.

Friday 26th. C.J. Lewis came at 12. Continued snow. To tea the Cranes & H. & Persis Friend _ broke up at 12.

Saty - Busily engaged all day –

Sunday. St Georges in mornng. Afternoon to Harvington with C.J. Lewis – through Fenny Rough &c. home to tea. To Worcester by 6 p.m. train. Remarkably sudden snow storm at 4.30. To Edwin Lees – there met Professor Buckman, supped – much chat till 1 a.m.

Mem^d to call on Mr. Geo Beddoe of Lickhill nr Bewdley – Buckman recommends him as a member of the "Worcestershire" _ good Botanist in the Grasses. Invited by Buck to meet the Cotswold Club at Cirencester on the 27 Jany - Shall be with Symonds about that time, so to endeavour to get over, as he will doubtless go. Buck said that at the present time Chemistry was the best paying thing – if a man could devote his whole time to it – (NB. Buck was anciently a chemist.) Spoke of his experiments on the transmutation of plants – how novel & successful. Mentioned John Lycett's claims as a Conchological Geologist – having been engaged with Buckman, in the Monograph of Jurassic fossils (Brachiopods especially) in the last of vol. of the Paleontological Society. Mem^d. Lycett still at Minchinhampton. Amphlett will be delighted to hear it.

Mem^d Clinometer the best by Elliot - 56 Strand. flat shape, compass inserted &c.

Speaking of the rise of the froudge, or ice formed at the bottom of the Severn during severe frost, Buckman's opinion was that such a phenomenon was not possible – the ice supposed to rise being in reality ice formed upon the surface. Mem^d to look it up further.

Slept at Lees'.

Monday Dec^r 29. Up at 8. Looked over Buckman's work on "Remains of Roman Art found in Cirencester" (the ancient Corinium). B. gave a very graphic account to me of his explorations in 3 acres of Roman Villas where tessellated pavements were turned up in plenty: coins by the gallon – and pottery – (Samian) no end.

The museum now formed contains 1800 objects discovered there!

Mem^d. Buck in favour of the pre-existence theory. Speaking of the physical aspect of Britain prior to the Carboniferous period, said there c^d be no doubt of its being a number of islands ~~which floating towards each other &~~ became amalgamated during the Carboniferous period -

To the Station at 10.40. There met Walter Mathews, who I find is staying in Worcester till the 5th. Chatted 10 minutes with him. Train and so home.

Melancholy death of Hugh Miller by his own hand brought on by over study ~~and~~ in bringing out his new work "Testimony of the Rocks" Mem^d to get it.

Monday Eveñg. Looked out some Saurian bones from Himbleton, and packed them to go to Buckman.

Touching these B. informs me that the masses of carbonaceous matter found with Saurian remains in the Lias, are decided to be Sepiaceous – the decomposed bodies of the Belemnite animal. By microscopic aid – the hooks attached to the arms are plainly discerned.

Tuesday – Sent the Saurian bones to Buckman. Supped at Mr. John Amphletts with two Mr. Woods – father & Son – Clergymen from Yorkshire. The old Wood – of Irish extraction, and decidedly jolly appearance. Talk of Durham &c. and some little information given by the younger Mr. W. on campanology – rules to be followed in founding &c., bell to be struck at by a mathematical point &c.

Wednesday. Dec 31. Took Mr. Wood Jr. to St Mary's – was showman both to it & Baxter's pulpit. Mem^d to devote an hour to looking up the few Puritan books in the Unitarian Vestry. The elder Wood called ~~in~~ at the shop in eveñg & chatted of Alkalies &c. Ground came down – so gave him the messages from Edwin Lees respecting his plants &c.

Letter from G. Augustus Sala in Times upon "Public Executions" – should be more public than they are – take place "outside the walls of the city" - with solemn pomp &c.

1857

January

Thursday. Jany 1. The Amphletts & 2 Mr. Woods came to tea.

Friday. Cold & wet. Wrote to Broadwas.

Saturday. Mr. Boyle came to me with prospectus of Lectures for the Educational Institute, wishing me to write one – accepted and fixed on Geology.

Wrote to Bmghm for Fanny to come on Tuesday.

Sunday. Boyle preached on Intellectual study of the Scriptures – mentioned the still small voice of Elijah being the epoch of change between the National prophesy & Direct individual prophesy &c.
- Wet.

Monday. Nothing of consequence occurred.

Tuesday. Met Fanny Millward at 11. train. To Crane's (Geo.) in eveñg – with her, Fred, & Dixon meeting the Burrows – (Habberley) Miss Smith (G.G.) & Robinson. home at 2.

Wednesday. Henry Friend to supper.

Thursday. Busy, but very wet.

Friday – A Miss Bradley (Hill top) to tea & supper -

Saty. Jany 11 [*probably the 10th*]. Looked over poor Thursfields house this morñg – and spent 2 hours in afternoon arranging his Cabinets of Fossils &c. for the sale. Wet.

Sunday Jany 12 [*probably the 11th*]. Very wet. Cleared up in afternoon, so took Fanny to Hurcott with Fred.

Letter from Jones of Cleobury – is sending the Cestracion remain to Reece for me to exhibit in his name &c. I think it is Psammodus porosus –

Monday – Started Fanny by 12.40 train. Looked in at Thursfield's sale, and stayed during the Book sale. Pickering's "Browne" 4 Vols 1820 only fetched 24/- did not buy anything – a poor library and fetched but little.

Tuesday. Attended Thursfield's sale till 4 Pm. China & glass sold well. Left a man bidding for the minerals for me, but lost them by 2/.

Went down to Worcester by 4.30 train. Walked to Lees, and after tea, escorted Mrs. L. to Tything – left her & went to Crown to meet Edward Guest & Walker (of Lulsley.) Met them there at 7.30, and took them to Sir Chas. Hastings' soirèe. Nearly 300 assembled. Symonds lectured on the formation of Coal, with some ...[to be continued next page]

Marchantias.

Marchantia polymorpha. everywhere.

" hæmispherica. Woodbury Hill. 1856
Hartlebury on walls 1855-6

" conica.

M. Hæmispherica Lane near Habberley leading to Burrow's Oak. very fine

M. Conica Devil's leap. Doddenham & Nipple well – Ankerdine.
also at St Kenelm's Well. Clent.

Notes from Sowerby's "English Botany" 1st Ed. 1790.
Vol 1.

- pl. 9. *Saxifraga oppositifolia*
- 10. *Orchis* (*Gymnadenia conopsea*)
 Shatterford. Birch Woods.
 Saldings – N^r Hunnington.
- 12. *Campanula Trachelium* –
 Nettle leaved Bell flower. Common about Hayton - (Ludlow)
- 42. *Campanula patula*. Spreading Bell flower
 Birch Woods, Shatterford
 Hill Pool, Drayton
- 44. *Genista tinctoria* – Dyer's Greenweed. Saldings n^r Hunnington.
- 54. *Chrysosplenium* Spennells ? No. *C. oppositifolia*
-

[continued from above] beautiful diagrams, got up by Baxter expressly for the Lecture. Met Hilary Hill, Baxter & Jabez Jones, Rev^d W. Thorn & Mr. J. Galton. No other Worcestershire Clubmen there. Captain Guise with Symonds who made some highly interesting remarks on the coalfields of South Wales after Symonds had finished, illustrating them by the most beautifully finished diagram I ever saw. Guise also exhibited a wonderfully fine Neuropteris heterophllum in a nodule of iron stone, with leaflets at the base of the leaves – a very rare event.

Symonds introduced the remarkable discoveries of De la Harpe, finding Orthoceratite & Tribolites in the Lias beds in the Alps.

Also that the first beds of coal composed by marine plants had been discovered in the Alpine district: beds composed of sea-weeds.

(For Symonds' lecture see cutting from Herald - Jany 17th)

Supped at Jabez Jones with Lees & his wife. Walked to Greenhill at 2. Sat chatting over the fire till nearly 3.

Wednesday. Jany 13th [*probably 14th*]. Up at 8. Breakfasted with Lees, and then joined Symonds & Capt Guise at Baxter's where lunched. Called on Reece, and saw the Cestracion fish palate deposited safely in Museum; it must be Psammodus porosus, though Symonds did not know it.

At 11.30 started with Symonds, Baxter & Lees to examine the passage beds between Red Marl & Lias, as exposed at Crowle. Crossing over the fields near the Leopard farm, turned aside to examine a good section in the lane of the upper Marls 60 or 80 ft below the Lias. Here cubical chrystals of red marl have been found, and in the white beds of claggy marl, an abundance of chrystals of salt, now changed into pseudo-amorphous chrystal of Sulphate of Lime abound. The dip is here 10 deg E.

Then turned towards Raven Hill, where the Botanists have found such an abundance of Jurassic plants, which is well explained by an examination of the beds capping the range, which are the black Shales, immediately below the Lias bone-bed. They form the Worcestershire analogues of the Lower Lias clays of Wanelode Cliff, Gloucester.

Passing over the fields above this range - Symonds pointed out how many pebbles of the New Red pebble beds had become mixed with those of the Northern drift, and by successive currents deposited along the S.W side of the ridges.

These ridges evidenced the very gradual rise of the Straits (elevation of the valley of the Severn). Leaving Tibberton Church to the left - (which is the miserablest looking "House of God" in the County -) [*Transcriber's Note: this church was rebuilt c1868*] we ascended the slopes leading to Clymer's Hill, the highest of the ridges, and the first capped with Lias.

Here a fine section is exposed of the passage beds, though the exact point of junction is not seen.

Upon the Red Marl - lie a bed of Clays laminated like the Lias - 10ft thick then the Pullustra bed, in which the chief fossils are an abundance of Pullustra arenicola - which is covered by the Insect Limestone, doubtless existing here, as a small slab, with a uncertain insect-remain was picked up - Upon this more laminated Clays & shales - and then the Bone bed (here wanting) - The Saurian & Ostrea beds occur higher up the country, but 20 feet would replace them on the exposed section here.

To Mr. Crane's to lunch.

The peculiar Flora of the Gallapagos introduced by Symonds to have Lees' opinion on the question. The group of these islands, of the most recent volcanic formation are covered with plants peculiar to the Islands - not known to exist elsewhere. The question therefore is - has there been a New Creation ~~to~~ of plants adapted to this recent formation - entirely one of volcanic debris (ashes, cinders & lava), or were the seeds there for ages, only waiting volcanic phenomena to enable them to spring. Left undecided. The Lipari Islands & other volcanic regions quoted in the argument as not exhibiting a similar botanical phenomenon.

Heard from Symonds that Professor Phillips had seen my section of the Habberley District, and pronounced it the most wonderful correlation of beds he had ever met with.

Phillips is of opinion that the tuberculated plate from Lower Ludlow of Church Hill quarry - is the skin of Pterygulus problematicus but Salter is to see it.

In the same slab are seeds vessels of Lycopodiaceæ, which have never been found lower than the passage beds between Devonian & Upper Ludlow. ~~The line of hills which here form the escarpment of the Low-Upper Lias are called Raven Hills.~~ No - Raven hill is the "calcareous ridge" (of Baxter) next below the Lias Escarpment in the ridges descending toward Worcester.

Left Symonds & the others at Mr. Cranes, and walked to Droitwich through Oddingley & the French Lane, about 5 miles.

Too late for 3.45 train so called on Mr. Rich^d Smith of West Acre, and sat an hour with him.

Mr. S. tell me that no diminution of the strength of brine has been felt (observed) at D'which, similar to that the Cheshire Saliferous strata is affected with. But ~~there is~~ the sinking of the district is gradual and observable.

In the principal street of Droitwich, within Mr. S's recollection, the ground has sunk several feet, houses cracked &c.

Mem^d. In Cheshire the whole face of the county is falling in, by the great cavity (vacuum) created by the incessant pumping of brine from beneath the red marl bed.

In the conversation respecting Hugh Miller that occurred last night, the remarkable opinion of the Rev'd Wiñg [*Winnington*] Ingram (of Harvington) was spoken of again.

When Ingram visited Miller last August, he was so much struck by his appearance, that on his return, he declared his conviction the man would not live 6 months. He died on the of this month months & days after Ingram saw him.

Miller's idea touching the connection of man with Geologic times was that everything was deposited with direct reference to his creation, and that all Geological history culminated in that event. This latter portion of his creed must be accepted cautiously ..

Perhaps the most beautiful object in the heavens at the present time, is the aspect of Uranus. A letter from Mr. Adams received the other day by Symonds mentioned a remarkable phenomenon now observable. At this point of its orbit, it is tinged with a bright rosy light, in direct antagonism to its general colour a pale yellow.

Adams regards this as a reflection from some other far distant Sun, in the sphere of whose influence the planet comes at one portion of its circling orbit. Our solar centre it must be remembered, seen from Uranus, is no larger than a star of the first magnitude appears to us.

Wednesday Cont^d. Home by 6.40 train and went to supper at Friends, a children's party - broke up at 2. Very leg-weary & tired out.

Thursday. Jany 15 very gloomy day

Friday Jany. 16 Occupied writing a lecture for Mr. Boyle on Elementary Geology – which took to him.

Saty 17. Still gloomy.

Sunday 18. S' George's in morñg. Boyle on marraige in Galilee.

Walked to Trimpley in afternoon, and O glorioso! found in the recently opened quarry near the Church, which are the lower beds of flagstones. Abundance of Pteraspis ornatus, several Cephalaspidean fishes (remains) I am not acquainted with - a bed of carbonized legs (Juncites) and better than all, fragments of Eurypteris & Pterygotes problematicus.^x Abundance of the seed vessels of Lycopodiace - & others.

Wrote to Symonds detailing St George's evening.

^x I am not at all certain if these sculptured surfaces are not Parka decipiens, and not P. prob. but nous verrons.

Wrote to H. Chellingworth mentioning find.

Monday. Very wet day. Wrote to Edwin Lees respctg the find on Sunday.

Tuesday 20th. Wet and windy.

Arranged to spend tomorrow at the new quarry in Trimpley.

Letter from Hy. Chellingworth, stating he had the Sunday previous – noticed the fish remains in the schistose blocks by the roadside &c.

Wednesday. Jan'y 21. A red letter day in my Geological Kalendar. A fine glorious morning. Started to Trimpley at 9 o'clock – reached the first heap of stones, carted from the quarry at 9.30, and at once commenced breaking. Found the following.

Cephalaspis Lyelli - a fine head &c.

C ----- Lloydii - abundance

Pteraspis ornatus - abundance

P. ----- Symondii (Roberts 1856) 1 plate.

P. ----- New sp.

Asterolepis?

Onchus – (spines of.)

Pterygotus problematicus – portion of claw

P. ----- new, (mecum) - do

Eurypteris - patches of skin

Parka decipiens.

var. a. molluscan ova

var. y. Crustacean spawn

Lycopodites cordatus (Morris) very fine

Juncites & Calamites abundance.

The vegetable remains in a bed of bituminous schist, the ichthyolite &c. remains in a flagstone. The whole beds as exposed at the quarry near Trimpley Church are the equivalent of the Caithness beds, and I shall in future know them by that name.

Worked at the heaps till 3 pm then met with Hy. Chellingworth & went with him to dine at the Park. Strolled after dinner to the old quarry near Trimpley church with him, and so home, laden with spoils.

Lent him Page's Advanced Text Book for a week.

Mem^d. He promises to send two blocks of the flagstone with Cephal. Lloydii on Saturday, together with my Testacea. Speaking of the late Dr Buckland Chellingworth gave some account of a visit he once paid to the Park, and his remark to H. C. that Trimpley was a hill when the Alps & the Appennines were level plains.

Physical Geology has made rapid strides since Buckland's day, but it has never done more in this instance, than echo the opinion of that deep thinking Geologist.

Touching Trimpley, how interesting to discover from the compressed shales (multi dip) near the lane quarry that it must have been once the highest hill in this part of the Island - hundreds perhaps thousands of feet of ~~near~~ super incumbent strata pressed upon the shales of the Devonian tilestones, and compressed them into the most fantastic shapes conceivable.

Thursday Eveñg. Wrote to Lees, with farther details of the preceding.

Friday morñg Jany 23. Wrote to Symonds (before breakfast) – the Pteraspis I regard as new has no equal for beauty of ornamentation. Sent him a section of the Trimpley district, accurately defining the boundary of the Cornstones & underlying Caithness beds. Mem^d the dip at the Church Quarry is 15 to S.W.

These belong to the Upper division of the Lower Devonian, and are immediately above the tilestones (proper).

Bought Woodward's Recent & Fossil Shells 1 Vol. 900 figures. Weale 7/6. Very useful, but hurriedly put together, and altogether valueless as respects its divisional Geology – as it is based upon the Despayan System of 30 creations &c. so eagerly taken up by Dr Lardner in his new Educational work.

On Trimpley yesterday (Wednesday) I held quite a levée – Mr. H. Crane & his Trimpley brother – Jas. Rogers & John Harvey, Miss M Hooman & Mr. Chadwick paid court to me – as I sat upon my stoneheap throne with a hammer for a sceptre.

Called upon a man who has taken the Brick Kiln farm – mem^d - a very intelligent fellow. Is studying Zoology – Mem^d to know more of him.

Mem^d Mrs. Downes at Talbot, Cleobury Mortimer - relative of Bloxidges.

Mr. Deverall - Steward at Childes', Kinlet – friend of J Dixon.

Sunday. To Churchill station. walking from there to Drayton to breakfast. A terrible snowy morning. Only the family there. Belbroughton to church; sat in all afternoon & Eveñg. Slept at Drayton.

Monday. Jany 26. Returned by 11.20 train from Churchill. Fair day. Letter from Symonds – congratulating simply.

Tuesday. Wrote to Baxter - H. Chellingworth & Edward Baugh. Gavazzi in evening but did not go, not being well.

Wednesday Jany 28. Not being well enough to read the lecture to the Mutual Improvement. *
[* Mr. Palmer was good enough to do so, however I managed to attend, and gave a little viva-voce explanation afterwards. Lent Palmer – Lees Pictures of Nature.]

Received some slabs of Caithness bed from Trimpley – from Mr. H Chellingworth one containing a good back of Pterichthys Millerii another as portion of Coccosteus cuspidatus (mecum).
Deep snow.

February 1857

Sunday Feby. Letter from Mr. Symonds; who thinks my bed at Trimpley is the equivalent of the Kington Tilestones discovered by Mr. Banks – the Crustacean remains would seem to point to it. Walked to Trimpley in afternoon, and found all the heaps of stones from the quarry broken for road mending. Looked over a few, picked up 2 or 3 Parka decipiens, but nothing new.

Thence to Bewdley through Gray Green. Sat with Baugh till 8.

Mem^d. B has a beautiful portion of the extended arms of Pentacrinites Briascus, with a portion of integument attached. Home to supper.

Monday – heavy fall of snow.

Wednesday – more snow.

Thurs & Friday. Very snowy & consequently quiet. Fanny Millward & John called on Thursday en route for the Shakenhurst Ball.

Sat. Letter from Lees. Thawing fast.

Sunday. Thaw & very rainy. Wrote to Lees – too wet to go out.

Monday Feby 9. E.B. Guest called having been sent for to see his Uncle at Harvington who was suddenly taken ill.

Tuesday. Feb 10. To Worcester by the 4.25 train. Left Notes & Queries vol VIII at Grainger's for Edwin Lees. Took tea at Baxters – thence to Soirée with the BS. & Rev^d J H. Thompson. Lees lectured on Forest Trees – very full rooms. Slept at Crown.

Wednesday Feb 11. Breakfasted at Greenhill with Lees & Thompson. Left them to return by 10.50 train.

Mem^d the annual meetg of Malvern Club on Monday, when the Tunnel is to be explored throughout, it being now completed.

Thursday. Feb 12. Busy, but not well enough to take much interest in it, or anything else. Letter from Mr. R. Smith of Droitwich inviting me to a days sport at Himbleton.

Friday. Feb 13. Visited the show of Furniture & Pictures of the late Mr. Turner, preparatory to the Sale next week.

Met at the sale Mr. Walker of Norton & Rev^d W. Thorn (of Thames House), both attracted by a pair of (so called) Greuse's. Mem^d Heath tells me neither are original, though the one ~~only~~ is a very excellent copy, both have been touched – and he does not think them of much account.

According to Heath, very few of Turner's pictures are really good – The best being Vernet's Rocky scene – Poussin's Sybils Cave and the Goat of Rosa di Tivoli.

A curious little marble carving of a tiger killing an ox – of Indian workmanship – and colored, is remarkable on account of the rarity of Indian stone groups. Bronzes & the precious metals being the most generally met with materials. A travelling mineralogist called, who I despatched to Edw^d Baugh: he had nothing of any value in the cases.

Mem^d Mr. Walker has a charming Greuse, the Feast of Reason, which he hopes to show me.

In the evening looked in upon Heath, and refreshed myself with a peep at his Greuse – an undoubted example of this charming master.
Called on Cooksey – a painter in the Horse Fair, who has some engravings by Le Brun, which I care to see. He fixes Monday Eveñg to show them.

Sunday Feb 15. In house all day, not being well.

Monday 16th. To Turner's sale (Books) fetched good prices.

Shaw's Stafford	13.15.0
Nash Worcestershire	10.10.0
Dugdale Warwick	11.11.0
Heath's Hogarth	7.10.0
Stafford Gallery	6.6.0

Tuesday Remainder of Books –

Friday. Sale of Pictures – sold very low. Incredulity of St Thomas by Caravaggio £38/0/0 about the most important picture sold – a Vernet fetched £38.0.0. Poussin – Sybils Cave 31/0/0 & Meng's Nun Reading £27.0.0. About 86 pictures sold – realised 720£.

Called on Cooksey – saw his Le Brun's, which are genuine sketches in sepia & colour by that master - for his pictures - 5 in all – one with the monogram - " **L**^B FECIT "

Rich^d. Ankret has a few engravings, but none of importance.

Thursday. The Stewards (Upper Arley) and Miss L Williams to tea - and "Patchwork" at y^e Music Hall.

~~Sat~~y Friday Feb 20. To the sale of Pictures.

Sat'y. Feb 21. To the sale of China &c. Very high prices everything in the shape of man fetched. Bought 15 fossils there – teeth of Elephant, Mastoda & bones of Cervus Sevaliensis from Sewalik Hills – part of Major Cantley's find in 1850 (for 2/6.)

Sunday Feb 22. Very fine warm day – St George's in morning – afternoon to Trimpley quarry with G & H Friend – found abundance of Parka decipiens, and an Onchus spine 1 1/2 inch in length – but which I totally destroyed in cleaning. – Mem^d. The deeply grooved sides of the spines cause them to break up at the slightest touch.

To tea with the Friends. Home at 10.

Monday Feb 23rd. - Looked in at Turner's sale, bought a pair of anomia shells, curiously etched with the Nativity & Annunciation, date of execution about 1400 – possibly Pilgrim shells, for 8^s/

Tuesday. Feb 24th. Stayed at Cottage all morning not being well.

Wrote to Mr. Symonds – relating the find of a Serpula upon a slab of sandstone from the Trimpley quarry. (Mem^d This is new to the Devonian.)

NO

Walked to Aggborough – Mr. Buchan very ill.

Received Worcester Journal from Lees – containing acct. of Malvern A., Meetg. on Monday week –
(vide cutting at end of book.)
Ankrett sent me a rare Puritan Book entitled –

("The Essex Dove, presenting
the World with a few of her
Olive Branches --
or a taste of the Workes of that Reverent, Faithful, Judicious, Learned,
& holy Minister of the Word, Mr. John Smith
of Clavering in Essex. Lond. 1627")
Now first published by J Hart.

This J. Hart in a "Preface to the Reader" thus discourses of the Learned Mr. Smith, _____

"True it is he wrote an infinite
intricate exceeding small abbre-
viated hand, out of all hope and
possibility to be read, by reason
whereof these three treatises were
by a painful writer, fetched
(as it were) out of the fire,
and so brought to their
present imperfect perfection."

Wrote to Broadwas.

Thursday. Letter from Lees @ Broadwas. Very delightful day. Mrs. Millward called. Wrote to Dr Grindrod with the list of fossils from the Caithness bed of Trimpey - complimenting him also on his find of New Beynichia in Upper Ludlow ~~of~~ near Colwall.

Wrote Cat. of Books at night.

Noted in Times "Introduction to
Cryptogamic Botany, by Rev^d M
J. Berkely F.L.S. Lond. Baillièrè
8. vo 127 illus. price 1£.

Friday, Feb 27. The Debates in the Lords and Commons last night on the China question are perhaps as interesting as any night's work on record. Among other minutiae the squabble on a point of law between the Lord Chancellor & Lord S^t Leonards in which both were called to order, is noticeable, and in point of sublimity, perhaps little (of late years) has surpassed the speech of the Bp. of Oxford – who regarded the question as one who rose above the ~~shape~~ cries of party strife, into a higher & purer atmosphere where National crimes & National Justice were matters to be dealt with.

March 1857

Saturday. March. (7th ?) To Worcester to dine with Edwin Lees – home by the 6.30 train. Conversation chiefly on the temperature of Geological periods – agreed in voting one uniform

temperature, and nothing to show that such intense tropical heat had existed during the early & middle Paleozoic eras as was supposed.

Wednesday March (8th ??) Met Symonds & Edwin Lees at the 9.20 train, and took them round to the Cottage to exhibit the collection of fossils I had made from the "Caithness" bed of Trimpley. – Mem^d It seems very uncertain whether any positive fish remains have been yet found in the Devonian – for Onchus is now regarded as a Crustacean, and called Leptocheles – the so-called spines being in reality the pincers of a remarkable Pterygotean animal.

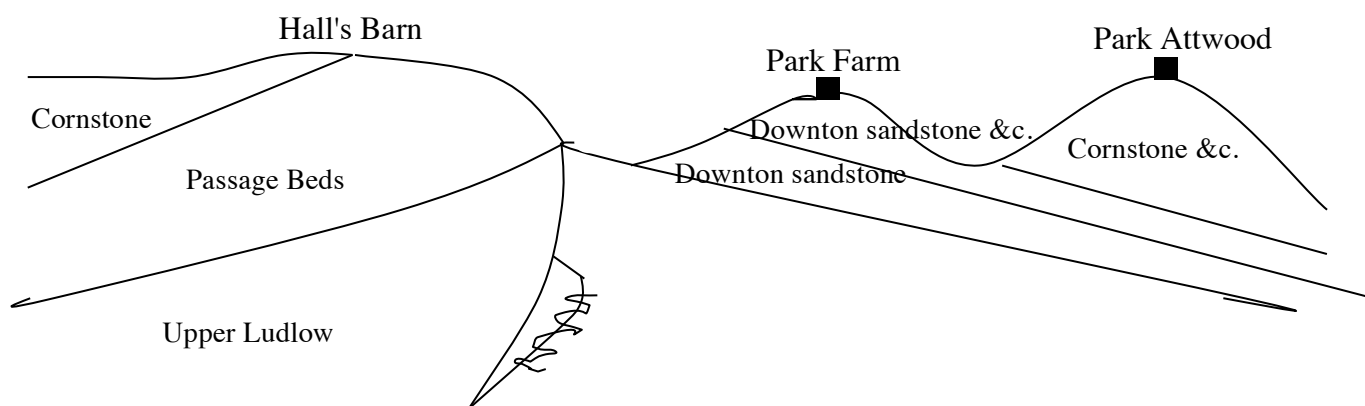
Even Cephalaspis Lloydii is questioned and many backs of nondescript fishes (?) are now assumed to be crustaceans, as Himanopteris Eurypteris &c. so that my list of aganic remains must be re-written.

Started to Trimpley to examine the beds at 10.30. Met Mr. H Chellingworth & Rev^d F Palmer at Habberley, and pleasantly walked to Trimpley Green – finding Stereocaulon natum (an Alpine lichen – and abundances of Marchantia hæmispherica on the rocky bank opposite the Great Oak.

Examined the cropout of Permian sandstone between "lower Soft Red" & Trappoid Breccia which Symonds declared identical with the Clent sandstone exposed at S^t Kenelm's Bridge – (bed of Perm. sandstone above the Breccia.) So to Brick kiln Farm Quarry, which S was transported with: so charming a bit of Perm conglomer. he had never met with. Spoke in favour of a nucleus of igneous rock in Warshill, seeking to account for the metamorphosing of the Perm. breccia. Visited the quarry of Perm. sandstone on the Western side of Warshill – the Cornstone here quarried not to be told from Cornstone of the Old Red – its lithological character being precisely the same.

Examined the crop out of Old Red in the brook between the quarry & Hall's Barn and then lunched at Mr. H Cranes.

Nothing new in his quarry of Old Red. Crossed the Green and examined the recently opened Church quarry. Here Symonds showed clearly the beds were passage ones between Old Reds & Up^r Silurian – the inter stratified layers of flagstone being of a decided Upper Ludlow character. 15 or 20 feet deeper would expose Upper Ludlow Limestone, unless the great thickness of shales underlay it here as it does in the Kington neighbourhood – Called at the School House for a remarkably fine bit of Pterygotus – and a good back of Himanopteris (?) (not certain about the latter) – Then took the lane to Shatterford – meeting with Downton Sandstone shales capping the first hill – (Park Farm.) but as far as – could be seen – non-fossiliferous.



So to Shatterford, obtaining some very good plants (ferns – Calamites &c.) from the shale raised vertically by the dyke. Symonds went in to examine the Perm. sandstone that covers up the N.W. corner of the coal field which beds he decided were merely higher in the Perm. than those of the

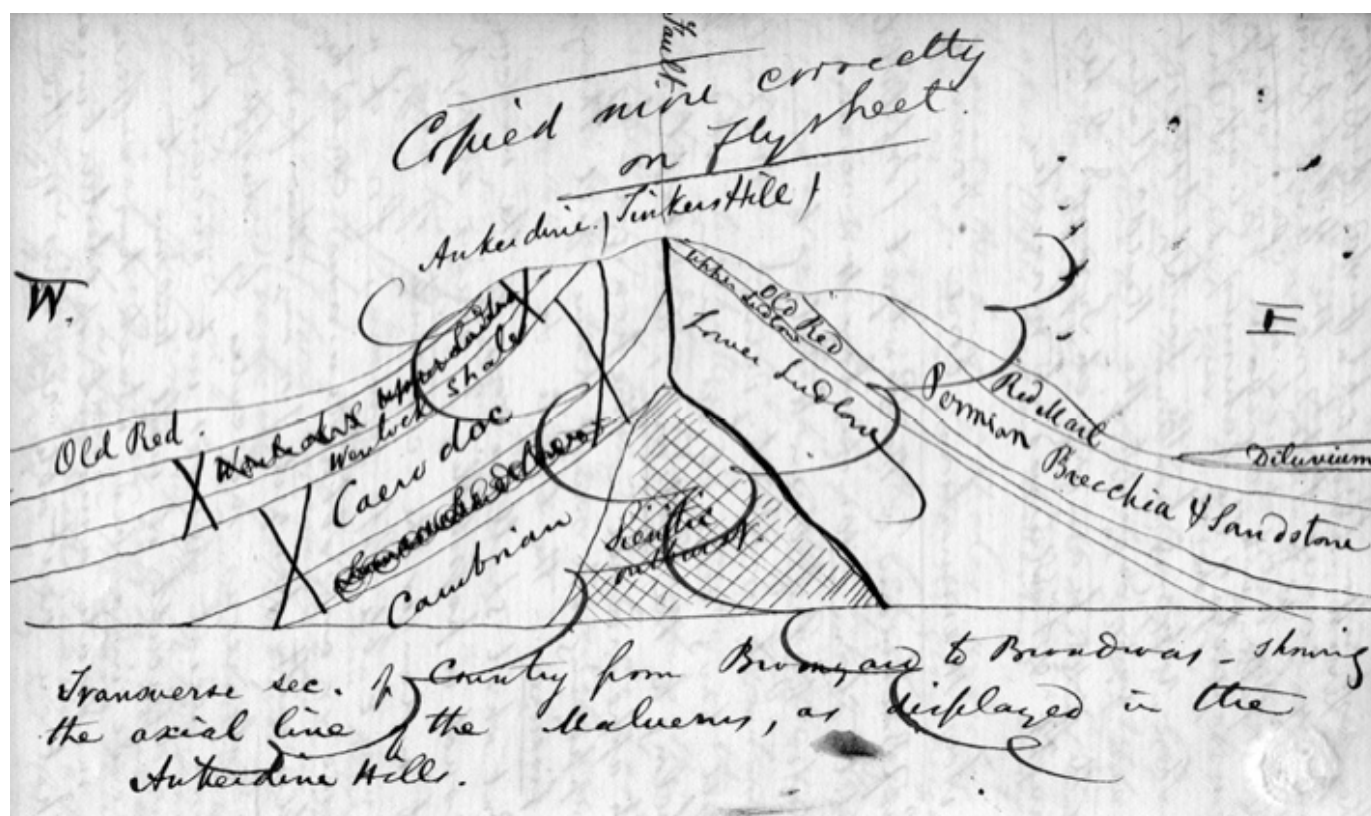
Echinus & Heath's Quarry at Warshill. Mem. are they not lower they rest upon the Coal field directly and are covered up by the Dodsbourne & Romsley beds – which are certainly the equivalents of the Echinus Quarry bed.

Then returning to the Park, dined at 5. and were driven to the Kidd' Station for the 7.45 train, which Symonds & Lees caught & returned to Worcester.

New. Mammalian bone. Found by Prof Buckman in the Pea Grit (Inf. Oölite) of Cheltenham – 10 inches long in discum. Stated by Prof. Owen to belong to a Ruminant or Pachyderm. Sir Charles Lyell havg seen it, is certain it must belong to the Tertiary, and explains its appearance in the pea-grit by supposing it must have fell through a fissure in the Oölite &c.

But what shall we say of the involvements of such a possibility? Serious enough to endanger the certainty of any remarkable life remain, for if a bone or any other life remain could become filled with pea grit / or any other form of calcareous molecules by dropping from recent periods into ancient ones how difficult it will become to decide in a bed which has suffered a moderate amount of disturbance what are veritable remains of the period, and what really belong to much later ones, but have fallen into cracks in lower strata or otherwise – and have been equally mineralized with those deposited earliest.

Mem^d Begging letter at table. _____



Thursday. Went to Worcester by 4.35 train. Broadwas by coach – Drove with E.B.G to Lulsley Court where tea'ed & supped, meeting Mr. J. S. Walker. Back to Broadwas at 3. To sleep there.

Friday. Windy & threatening. Walked to Doddenham - thence along lanes to Lower Gurnock [2009 map Lower Gurnox] (Red Marl.) and so to Tinkers Hill - vide Ordnance map for Geological bearings.

Found *Helix lapicida* – Pupa in abundance and *Clausilia nigricans* all in Red Marl.
In lanes between Lower Gurnock and Basinghope [2009 map *Easinghope*] – gathered

Asplenium trichomanes
A. – *adiantum nigrum*
Polystichum lobatum
Lastrea spinulosa
Polypodium vulgare
Lestrea filix mas.
Scolopendrium vulgare

and also

Marchantia Hæmispherica on the next highest bed exposed. (Perm. Cornstone)

Note on the Geology of the district from Tinkers pitch or Tinkers copse to Broadwas.

Axial line of the Malverns.

Wenlock shale dipping at angle of 70 away from the line W. very much altered by "roasting" so much as precisely to resemble Old Red; if it were not for Crinoidal remains (vide specimens*) Turning East, we pass the fault, and descending pass over Lower Ludlow (many corals) and at the foot of the hill meet with Upper Ludlow shales containing Trilobites - Phacops Downingia.

* Ossicles of *Cyathocrinites tuberculatus* & *Encrinites moniliformis*. Also *Terebratulæ Wilsoni*.

Corals from ~~Upper L~~ Lower Ludlow as above

358	<i>Favosites</i>
359	<i>Cystiphyllum</i>
360	<i>Haliolites</i>

Old Red here partially observed by a fault - so that the order of beds is not clear, and the Perm. Brecchia of (Rosebury Rock) nearly joins up to ~~Lower~~ Upper Ludlow shales. Still lower Perm. Sandstones (no) crop out and these are in turn covered up by Red Marl – 1st impure slaty Limestone (shales) – 2nd ordinary soft Red & green Marls.

Saturday. March 14 To Worcester with E.B.G. dined with Edwin Lees at Green Hill, afterwards strolled about the city, meeting Mr. Thomas, Mr. Walker, J Severn Walker &c. Called on Haywood & Chaplin. To Broadwas Church at 6. Very wet Evening.

Sunday. March 15. Stormy. Broadwas Church in morn̄g.

Evening strolled down to the Teme, finding a curious *Opegrapha* (*Ovenosa*) on pollard willow near the Court - also the finest mass of polyporous I ever saw, except the great fellow Lees has.

Monday. Walked to Ankerdine. Examined the quarry of Aymestry Limestone & Upper Ludlow dipping under Old Red, at the South end of Ankerdine, found abundance of Trachyderma squamosa, (Phillips Vol 2 P^t. 3&4) (Murchison Serpulites Longissimus Sil. Sys.) with the other fossils mentioned by Phillips. (Palæozoic Districts of Abberley & Memoirs Geo. Survey 1849) except Murchisonia corallii. _ For description of these beds exposed at this quarry, see Note Book 3. Diagram 17. Thence to Bridge Inn where lunched. Crossed Ankerdine, meeting with a fine slab Mem^d 417.18.19.20. |

of Caradoc Sands^t with Murchisonia in great beauty - and a large slab perforated with Orthoceral tubes 7 inches in length – and only 1/4 in diameter. Gy? species of Orthoceras? Then looked at a quarry of Caradoc Conglomerate between the Hill & Collin's Green - and so to the magnesian (reddened) quarry of Wenlock Shale in Tinkers' Pitch - descended the coppice E of the Pitch, obtained more specimens of Upper Ludlow Shale at the bottom, (reversed beds) and spent an hour picking up coral & shells from the field beyond - (Wenlock Shale fossils from an old quarry, now filled up.) So to Broadwas through Doddenham. To tea in Eveñg Mr., Pidcoch (Worcester) Tom Walker (Lulsley) & J. S. Walker. "Vingt et un" till 3 am.

Tuesday. Mar 17 Up at 9 and took out the Dogs through the Broad Green meadows - started some rabbits, killed one - found 2 galls of Cynips quercus petiole in young oaks near the Martley Lane.

Wednesday Mar 18. Strolled about and chatted to Mr. Brown &c. all morñg. Dined and called on Mr. Pullen afterwards Hilary Hill called at Ivy House – lent him my Page's Text Book Geology.

Thursday. Mar 19. Edwin Lees came with Rev^d. Mr. Denning. Lunched, and started for excursion meeting J S Walker & Tom Walker at the Court.

To Devils Leap first there finding Chysoplenium oppositifolium. Bryum ligulatum in abundance fertile & barren, and Jungermannia asplenioides - abundance of Hyperium splendens in the brakes. Thence to Tinkers Hill examg the quarries - Next to Nipple Well - (Mem^d. Marchantia conica both here & on rocks at Devil's leap. - followed the stream downwards, and emerged near Doddenham. Walked along the road to Bridge Inn, Ankerdine there lunched, took leave of Walkers and returned with Lees to Broadwas, taking the course of the meadows.

Noticed the abundance of Misseltoe on the station Black Poplars along the course of the Teme - but none on the indigenous ones.

Dined at Ivy House with Lees at 6. -

Friday. March 20. To Martley - via Ankerdine with E.B.G. & Lees. Parted with Lees at the village and walked to the Wenlock Shale quarries on the Ridge Hill. There found abundance of the usual fossils, and many curious ones - to be described hereafter. Lunched at the Inn, and then called on a Mr. Hurst in the village, who it was stated had some good local fossils - Found on enquiring – not correct.

Met Mr. Bradley at the Union when called for E.B.G. Chatted on the geological features of the district &c.

Home to dine at 5.

To Mr. Brown at 7. where took in coffee - looked over some rather good Roman Coins gold (2 of Gratian) Silver denarii & divers brass - found among other places at Cleeve Prior

Also at a fine Missal, Flemish School with illuminations & 1 miniature – beautifully heightened with gold, Circa 1380.

A curious card produced by Miss Brown issued by Mrs. Piozzi (Dr Johnson's Mrs. Thrale) for Eveñg party on completing her 80th birthday in Bath. Miss B. mentioned she had many letters of Mrs. Piozzi's & several of Sir Jos. Reynolds.

(Mem^d.) Dr Rundle said (on being shown the print of Hogarth's called Medley -) that if he had been Justice of the Peace in Abram's Parish, he would have committed him to be found bail for his good behaviour (towards Isaac)

~~Let~~ Cherish the Holy Spirit in your heart, and not in your head.

Saturday. Mar 21. To Worcester. Called at Bank to witness a paper before Sir E. Lechman &c. for E.B.G. Called on Reece - to look over some minor fossils of Wenlock Shale he had obtained from Colwall Copse - among them an arm of Asterias^x curious bit of Coppinus dubious - clearly toothed - and some new Rhynconallas.

Then called on Chaplin - and Edwin Lees - lunched ~~there~~ at latter place, where saw a drawing of a curious fossil found by Rev^d Mr. Denning in Upper Ludlow (Suckley.) which I recognise at once as a portion of Loligo* (curious that 2 sh^d be at once discovered). Called on Baxter, and talked of the prospects of the Worcs Club.

Mem^d. First meetg to be at Dudley, to meet the Warwickshire Club.

Dined at Hilary Hills with his family – Met E.B.G. at Crown at 5. and so to Broadwas.

*[The notes marked ^x and *, shown below and referring to the script above, were later pencil additions by Roberts.]*

^x part of finger of Crinoid Didymocrinus (?) G. G. R. March 1859

* No - it is the internal cast of an Orthoceras

Notes on Hogarth's engravings
from Ireland's Hogarth Vol. 3. p 328 –
1733 – 4

Harlot's progress. pt 2. Shadows on Boys drapery sudden, makg him look like a magpie.

Copy w^t variation – viz. shepherd & shepherdess
in the two pictures that were of Jonah & David in
Original - same size as original –
situations of figures reversed.

1736

Sleeping configuration.

- 1st state. Dieu et mon droit under Kings Arms. not inserted. angel has a pipe in his mouth.
 2nd state. above motto added. angel's pipe effaced lines of triangle doubled.
 3rd state. inscribed on side of the print – Retouched & Improved April 21. 1762 by the Author.

Mem^d. Ravenet's name was S. F. not R. F. as appended to Engraving of Pt 5. Marraige a la mode
 third state.

Celebrated Engraving of Churchill.

Engraved in 1758 by Hogarth on the plate that contained his own portrait with the inscription –
 The B.C.C (once the Rev^d !) in the C. of a Q. H. r. h. a p k t m C . i v v galled his v. f. the heaven-
born W.

- 1st state. 3 of the upper knots on the club left white – (white lies) and a line inscribed "She line of
beauty" drawn on the palate.
 2nd state. Knots shaded – and a political print introduced on the palate.
 3rd state. Letters N.B. & the word "Infamous" inscribed on the club, and Dragon of ~~Worcester~~
 Martley added at the end of "I warrant ye".

Etchings of Hogarth's head by S. Ireland, was prefaced to a Cat. of Hogarth's works sold by Christie
 in May 1797.

1754

An Election Entertainment.

Plate 4. Chairing the Member.

- 1st state Engraved by Mr. Hogarth & F. Aviline; published 1st January 1758. inscribed to Hon
 George Hay &c.
 2nd impression -- The word Indintur (indenture) written on the scroll hanging out of the attorney's
 window.

Notes on Credulity & Superstition

Altered by Hogarth from an engraved plate prepared by him for Enthusiasm Delineated Preacher
 holds - right. Deity - triple fig tria - emblems &c. left Devil grasping a gridion.

(Mem^d Mahomet being asked, What is this God you declare to us? (Allah) replied - It is he who
 derives being from himself, from whom all others derive their being - and to whom is no likeness
 in space.) -

Adam v Eve - Peter v Paul. Moses v Aaron
 Durer - German school. Rem 6)

Cred. & Super.

Mrs. Veale's Ghost. Jul. Cæsar appear. & Sir G. Villiers ghost.

How final & how finely expressed is the illustration of the Trinity as given by Hogarth & Swift _

Hogarth gives the emblem -  (the ordinary triangle) &

Swift says, explaining (as it were) the emblem - If God sh^d please to reveal unto us this great mystery of the Trinity, we sh^d. not be able to understand it, unless he w^d bestow upon us some new faculties of the mind.

The painters knew "the line of beauty by instinct" as Falstaff knew Prince Henry.
-- p101. Ireland Hogarth

Πυθαγόρας	Pythagoras
"Ογαρδ	Hogarth

1762

Credulity Sup &c. a Medley designed and Engraved by Mr. Hogarth and published March 15. 1762
-- 235.

Sunday. Broadwas Church in morñg Mr. Brown – Afternoon. Snowy, stopped in -- Evng. walk round the farmlands.

Monday. Very snowy day - alternating with gleams of great heat from the sun bursting out, making the meadows smoke tremendously. Walked to Doddenham Court, to see Mr. Edmonds - once curator of the Worcester Museum. Sat an hour with him talking of Lees & the old members generally - told me the history of the Rubus horridis found by himself, and so unblushingly appropriated by Lees. Bought some good little opals &c. from him for ③/3 Gave me a branch of apple cut so as to show the union of the misselttoe with the wood.

Exhibited some very curious specimens of Scolopendrium vulgare, & bi-lobed in a very remarkable manner, one even tri-lobed; also A. adiantum nigrum similarly diversified.

Looked over his collec. of shells, nothing new or at all rare, then turned to his pictures - some fine old fellows painted on panel - and a curious drawing, endorsed - "Raphel d'urbino" in the hand of the 17th century, but evidently forged so far as false spelling & bad drawing could guide in a decision.

Had some very good birds shot near Broadwas - especially the Grey Phalarope and a cabinet of insects, obtained in the neighbourhood - chiefly ~~Finnae~~ & Moths -

~~Monday~~ Tuesday. March - Walked to Edmunds with E.B.G. Looked over some other old oil pictures he had, and prevailed on Guest to buy 3 - one a head of St. Cecilia for £3.10.0 - painted on panel - discovered afterwards the name (Autograph?) on the back of "Andreas del Sarto". Took it to Broadwas in triumph being convinced it will turn out good - took it to Mr. Brown, who on examination pronounced it genuine, and priceless.

Mem^d. Edmunds says it came from Lumley's Sale, and was hurriedly sold with other things. Mr. B. thinks my sketch by Raffaele is genuine - the name being added, as is probable by some collector of the 17th Century.

Mr. & Miss Brown came in to tea &c. - Chat over Guest's coins till eleven.

Wednesday. Very wet. The Pullens to tea. Prepared to leave Broadwas.

Thursday. Left Broadwas at 9. To Worcester. Called on Hilary Hill for Book, and Reece, to show a few Bivalves I had obtained from Upper Ludlow Rocks. Saw a beautiful little cup of an Encrinite he had picked up at Coldwall Copse which showed the curled proboscis on its summit (vide Murchison figure.)

Lunched with Lees: looking over his drawings of fungi - especially the Hæmacoccus mirabilis - discovered by him on the margin of a pool at Henwick - (see his "Rambles"). Brought back my vol. of Worcester Journal for 1725.6. Home by 2.20 train.

Friday - March 28 [*Friday was actually the 27th*]. Letter from Sir Roderick Murchison detailing the opinions expressed on the new fossils I had sent by Symonds &c. The Crustacea have been named by Mr. Salter. The fishes by Sir P. Egerton. Very gratifying.

Nomination Day. Much row.

Sat. Mar 29 [*Saturday was actually the 28th*]. Polling Day for General Election. Obligated to close from after mid-day - violence of the mob great. - attack on the Hustings at 4 o'clock. Many persons seriously hurt. Mr. Lowe badly hurt, a slight fracture of the scull. Great commotion in the town - many windows broken &c. Military sent for, who arrived at 12 o'clock p.m. Left town about 11 - things quieter.

Sunday. Very wet day. Boyle preached twice.

Monday Mar 30. Much commotion in the streets. Wrote to Miss Brown (Broadwas) respecting Governess.

Tues. Mar 31. Called on Heath to relate as touching the Doddenham Pictures - he will give 4£ at risk for each picture left there. E.B. Guest called passing through & Mr. Bury. Wrote to F.M. & Fred who is in London with Gittos & Griffith.

Sent copies of Sir R. Murchisons letter & of one rec^d this morning from Symonds to Hy. Chellingworth.

Found a notice in Sowerby of Vicia bithynica being found in Hedgerows near Chicken Hall in Worcestershire - residence in 1890 of Mr. Harris.

Letters in Times explanatory of the Kidderminster Riots from G. L. Simcox, Rev^d. J.G. Shepherd & Ebenezer Guest- the formers and latter very violent and presented a most distorted picture of affairs as they really were.

April 1857

Thursday. April 2nd. Jones of Cleobury came over - took him to Cottage for a 6 Tea - to look over some fossils.

Mem^d. Has met with an ichthyolitic remain from Oreton which from his description must be new & important.

Saturday. Arranged with Heath to obtain for him 2 or 3 of the old oil Pictures brought from Italy by Edmond's friend (at 4.7.3 each.) Letter today from Edmonds offering me 3 for 2.7.3. closed with him and wrote for them.

Town by this time quiet again -- the late mischief had been long brewg, discontented workers and arbitrary masters can never long agree.

No man in his senses believe Boycott or any of his party organized the riot; whatever organization was apparent, was due to the disbanded militia men. Such an Element of vagabondage let loose in the working life of the town was sufficient to account by its very existence for the outrages that have taken place. Wrote to Edwin Lees, with list of plants given in The Treasure of Euonimus 1560 there being some curious old names.

Mem^d. To take to Worcester - if I go on Saty some specimens of *Parka decipiens* & *Pteraspis* &c., for the Worcester Museum, having written to Hastings promising to send some.

Fine expression by Prof Owen in his last lecture to the Geolog. Society. "Nature does not cry aloud - she whispers her truths."

Monday – very wet.

-
1. Three yards of Exertion (Insertion)
 2. Bury the dead crocks.
 3. Childe Family. "Very old family.
Potaphae's wife was a child before she was named &c.
 4. Mr. Proverbs - of Ledbury. died May 1 aged 60
 5. To behave gingerly with me
 6. "No thanks to your Godamossity". (Clent)
 7. Month half cock, Clent fashion.
 8. Hartell (Clent) noted for Idiots.
 9. "Long and merry ago"
 10. "You will get bite".
 11. Girl now named Petronella
 12. "Kingdom of Neuralgia" (emigrated to
 13. Girl who went to pray at St Kenelm's "Good husband or neerun to which the response being neerun" she immediately exclaimed "a husband and if ever such a sorry un".

Thursday. April 15 Went to Drayton with Mr. Bury. Called at Harvington for the girls.

Friday. April 16 Quiet walking about in morñg. - Midday to Holy Cross in carraige – where put down, walked to St Kenelm's examining the permian breccias in the ~~lab~~ lane. *Chrysosplenium alternifolium* & *Marchantia Conica* in when abundance in a gorge near St. K's. Met the carraige again at 3. and so to Drayton to Dinner.

Saty. Carraige to Rouberry Hill with G.B. & wife. dined at Drayton at 6.

Sunday 18. Belbroughton in morning.

Monday. Dudley by train with all the family -- Wren's Nest & Castle Hill - looking up the fossils &c. -- Called on Edward -- Mary &c.

Tuesday - Walked to Station & so home. Gave lecture in St George's School to Mutual Improvement Society on Habberley Valley.

Wednesday. Took first train to Drayton. Walked to Holy Cross, John Price.

Thursday -- Walked to Hill Top, calling on John Bradley &c.

Friday. The Sparkes (Tipton) to Dinner. John Bradley's to tea.

Saturday -- very bad cold, stayed in.

Sunday. Apl 25. Stayed in, very cold. Nettleship died.

Monday - Walked home in morning. Mr. Millward called returning from Mamble.

Letter from Rev^d. JH Thompson - mentioning the find of Elatine Hydropiper in a pool near Churchill Station by a Londoner!

Mem^d. Ground has found Apl 22. Lathyræ squamaria (Toothwort) near Trimpley & Paris quadrifolia near H Chellingworth (Park Attwood.)

List of Brachiopodous Shells &c. from Wenlock Shale – resting against Caerodoc Sandstone of Rouberry Hill -- (E.)

Terebratula diphyia (?) No.
Orthis biloba (sinuata Linn.)
Rhynchonella Capewellii

Thursday April 30th. Rev^d. J. Dyson came over to visit Trimpley - took a cab up & spent an hour searching for the fossils - visiting the Cornstones of Hall's Barn first & then the Church Quarry - (Upper Tilestones.) nothing new. Speaking of Lyall's Supplement, Dyson had advised him ~~to~~ so to make additions to his Manual, a far better way than bringing out a revised Ed. every year.

May 1857

Saty. Letters from Eliz Brown (on Ferris) & Reece (on Brachiopodous Shells of Rouberry.) Wrote in reply.

Sunday May 3rd Rec^d. annual report of Wac - Architect Society.

To Habberley in afternoon with G^d H Friend. Found abundance of *Erodium acutarium* growing on the top rock of the valley. home to Church at night.

Monday Engaged with Friend to write a handbook to Habberley.

Sunday May 10. Very wet.

Sunday May 17. Spent the day at Trimpley with Joseph Chellingworth - very hot but pleasant enough.

Tuesday May 19. Birthday - To Dudley. Lunched - Wednesbury dined. Birmingham tead with the Millwards - Wednesbury supped &c.

Wednesday May 20. Returned to Kidderminster from Wednesbury in the morñg.

Sunday May 25. To Bewdley in afternoon - calling at Hall's Barn first. ~~Scale of Glyptolepis in Caithness beds.~~ Sat an hour with Baugh, returning to Supper.

Friday May 29. First Excursion of the Worcestershire Club. Met at Churchill. See Newspaper cutting for list of members. Joined by Rev^d Reginald Turner, Hon^{ble} & Rev^{ds}. Thynne & Lyttleton (Hagley) and Rev^d F. Palmer. Visited the pools at Blakedown &c. So to Hasborough House - Hagley & Wichbury Hill.

Dined at Foley Arms Pedmore.

Home at 8. Called at Mr. Thynne's rooms and drank tea with him & Palmer.

Sunday. May 31 - Afternoon walked to Harvington - sat 20 min, with Guest, and walked to Drayton Villa where drank tea, seeing then the prettiest of all pretty children, a Taylor (Birmingham) 8 in years & 200 in wisdom. Howel and his sister there at Supper. Walked home.

June 1857

Monday June 1. Tea at 8 with Rev^{ds}. Palmer, Kersley? & Thynne in church.

Tuesday Jun 2nd. Accompanied the Mutual Improvement Society to Malvern - Walked from Powick - the coaches being loaded too heavily for comfort, with Rev^d. F. Palmer. Guided the Society to the Coldwall Copse Quarries & Woods. Returned to Malvern at 5. and leaving the Society numbering ab^t. 50 to dine at the "Commercial" dined myself at the Foley Arms with Rev^{ds}. Boyle, Hon^{ble} A. Thynne, Palmer & Gibbons.

Returned to Worcester at 8. Caught train and so home.

Wednesday. Mrs. Jevon's funeral.

Mr. Bury, Mr. Taylor & Butterfly - Polly & Eliz came to look at Habberley. Went with them & Fred - taking prog &c.

Walked to Mr. J Chellingworth - and looked over his Greenhouses &c.

The Geo Crane girls joined us at tea in the Valley at 7. Home at 9.

Thursday 4th. Attended the first meetg of the Working Man's News Rooms held in St. John's School at 8. Geo Hooman, Morton & John Brinton present - with Rev^d. F Palmer & Thynne. E.B. Guest came up.

Friday 5th }
Saty - 6th }

Sunday 7th. Afternoon walked with Fred to Drayton - drank tea with the children &c. leaving at 8. Very Hot.

Monday 8th. Gloomy day - Mr. Gibbons lent me last No. of Royal Institution Rep. containing Sir Chas. Lyell's paper on the early sedimentary strata elevated by the Malverns. Nothing new in fact, but a familiar treatment of subject.

Tuesday 9th. The Bury's came to tea, bringing the Butterfly, sad to see so pretty a child with evident consumption upon her.

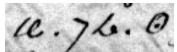
Thursday 11th Persis & Eliza Friend came to the cottage to stay till Wednesday.

Sunday 14th. Morñg St George's - Afternoon, Warshill Wood with G & H Friend – then down to Bewdley. Sat an hour with Baugh – Home at 9. Noticed a peculiar appearance in Antares in Scorpius, change of color blue to red &c.

Monday. Went with Rev^d. Thynne to call on Mr. Godwin, Holmes &c. about a room for the Working Mans News Room. Holmes offered the use of his old wareroom gratis. Attended meetg in Evening of said Society. Walked back with Thynne, who speakg of Martin F. Tupper, said how absurdly egoistical the Proverbial sage was, on introduction Tupper gravely bowed, saying: I am Martin Tupper". Thynne felt very much inclined – (he said) to give him one for Martin & another for Tupper.

Mem^d. Tennyson now engaged in writing a new poem on King Arthur.

Mem^d The finest poems of Tennyson are, in Mr. Claughton's opinion - "The Holy Grail" & "St. Agnes' Eve". Took my MSS of Habberley to Friend, reading over the first part to him.

Wednesday 17th. Omnibus to Bewdley, where exchanged with Baugh a number of Roman Copper coins (cost me ) for Dr Prattinton's Cabinet of minerals - 36 drawers, well stored

– according to the Doctors mem^d cost him £40.

Very hot. Called on the Giles' in Eveñg, lately taken Mr. Curtree's house. The children left. Mary Griffith came over for the day.

Viewed through a Dolland's Telescope, of J.B's the star whose vacillating conduct was perplexing us on Sunday. – Still changing color.

Thursday 18th Mr. & Mrs. Bury drove over _ going to Llandudno.

In Times today, a paper read at the last Meeting of the French Academy by M. Du on a genera of fishes – named Ostracides, whose armour ~~then~~ threw great light on the Cephalaspidean fishes of the Old Red. Known to ~~Pliny~~ Strabo as Ostracisms. Peculiar to tropical climates - Fins appearing through openings in the plates &c.

Friday. June 9. Very hot day. ~~Called on the Giles.~~

Saty. Refreshing rain.

Mem^d What a profound conception that is of the relation between God and man contained in the saying of Heracleitos.

"Men are Mortal Gods, and Gods are
immortal men"

Noted by Max Muller in
his late paper on Mythology.

Mem^d Grote ~~neg~~ negatives the mythologic age by calling it "a feast that was never present"; but surely this is at variance with truth. There must have been a mythe-producing age; equally as a Dialectical period or Nationalized [?] language period.

Sunday June 21st. St. George's in morñ afterwards walked to Trimpley and took a glass of wine with Jos. Chellingworth. Drank tea & walked home at night.

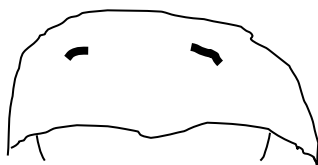
Monday. Met at the Station E.B. Guest, Lees - Smith (Droitwich) Baxter - Ingram (W.) Chaplin & Hopkins, - so started to Dudley Meeting of the United Worcestershire & Warwickshire Clubs. Met at the Hotel - Dudley - and after refreshment. started to Wren's Nest_ Looked up the anticline ridges of that & the Castle Hill, afterwards descended to the Caverns, which by Lord Ward's courtesy were lit up with all their coloured light &c.

At the Wren's Nest examined the line of caverns, finding a splendid mass of Favosites multipora , and a pretty patch of Tentaculites ornatus. Met in the grounds of the Castle Dr Grindrod, with Mr. Salter (Jermyn St.) Mr. Vernon & others. Grindrod tells that Burrows has got the Pterygotus down to the Caerodoc - (May Hill Sandstone.) of Eastnor.

Conversed with Slater on Parka decipiens; he seems puzzled about them mentioned that, in the Scotch beds they had been found with a style attached, not unlike the stalk of a fungus. I have not met with ant attachment in the Trimpley specimens.

Thought the pteraspides were beyond doubt ichthyic - But no organs of vision had yet been found either in these or the Cephalaspides. May they not, I suggested, have been situated like those Limulus - ~~im~~ protruding through openings on each side the head, thus -

defended by a
horny lid &c.



But Salter thought not.

A red letter day - Present at Dinner

Edwin Lees Esq. F.G.S. F.L.S.

J. W. Salter F.G.S.

W. Mathews F.G.S.

Dr Grindrod F.G.S. &c.

Hon^{ble} & Rev^d W. H. Lyttleton.

Rev^d B. Brodie F.G.S

Fletcher F.G.S

Vernon Esq.

Tuesday. E.B. G. returned to Broadwas. Very hot. Supped with the Friends. Returning along Chester Lane at 10 - observed a beautiful large meteor at the N.E 40 deg. in altitude - traversed about 20 deg - much larger than Venus and a pale blue colour.

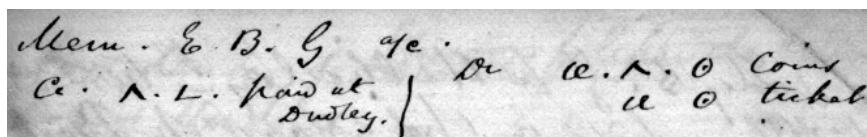
Wednesday Awoke at 6 by messenger from Church St. John Burrows very ill. Went down & found him in an Epeleptic fit. Died at 10. Took a cab to Harvington to tell his Uncle. Lunched there. Very hot.

Thursday. Mrs. Millward came to Church St^l ??? evening. Funeral of J.B. fixed for tomorrow - the heat so excessive. Wrote to the Bury's &c.

A Mr. Ackland - (of Whitchurch School Salop) called - introduced by Mr. Piercy gave him information respecting the plants of the Habberley district. Very hot.

Friday - June 26th. Buried poor J.B. at 6 this Eveñg. Very hot. Walked round to the Friends in Eveñg. Ackland supped with me - showg him my fossils - mem^d gave him some for a Mr. Egerton, brother of Sir Phil. Egerton - Rector of Whitchurch.

Saturday. June 27. Very hot - really the heat is becoming serious. Engaged all day bill makg. Wrote to Mr. Bury, and to the Butterfly as requested - they are still at Llandudno.



July 1857

Sunday. July 5. To Habberley -- turned out wet. Observed on the grass of Pigsty Hill abundance of a lemon-colored fungus, frothy - antlered - not preservable.

Also near the above, patches of white fungus, of similar character, composed of 50 or 60 egg shaped nodules, rising from and covering a base of yellowish white scum, with bright red ganglia.

Drank tea with Henry Crane of Halls Barn. Heavy tempest & fearfully bright lightning at night.

Friday July 10th. Started to Droitwich; called on Mr. Rich^d. Smith, and walked with him to the French Lane Quarries - where made a good find - viz. a bed of lacustrine gravel resting upon Lower Lias shale at Himbleton, & containing bones of Bos priscus - Equus conimunis or priscus, with the usual shells - Unios, Linnea &c. Appears to be the equivalent of the Cropthorne Beds. -

Lunched with Mr. Canterrell of Himbleton _ Walking home through the Dean's Meadows - With the bones were fragments of marine shells (~~Mussels~~) rolled & vertebræ of Saurian reptiles - showing a condition of drift. Filling the layer bones - especially the tibiae of Bos, were infiltrations of Marl - (Fullers Earth) pierced & channelled by Teredines.

Abundance of Spireæ filipendulu in the Dean's Meadows.

Chenopodium Bonus Henricus & a glorious expanse of Geranium pratense in Himbleton Churchyard.

Sec. of Gravel bed.

5ft Clayey loam
2ft gravel.
Lower Lias shale.

On the side of a ridge - having Himbleton Brook 2 fields West.

Returned to West acre & tea'ed with the Smiths. To Worcester ay 8. Supped with the Baxters.

Saturday. July 11. To Malvern by Coach, meeting the celebrated Dr. Falconer, so renowned for his discoveries in the Siwalik Hills, and a Mr. Everett, (Geologist) from Calcutta.

Pleasant journey together. D^r F. employed by Sir Chas Lyell to look up the bone deposits of Worcestershire, as illustrations of papers left by the late Mr. Strickland.

Looked over Museum - introducing D^r F. Nothing of importance lately acquired save a plate of Old Red fish (?) from the Up^r Old Red - found by Symonds, and some wonderful Ichthyodololites from the Keüper Quarry at Pendock.

Took F. to Dr Grindrod's where dined - afterwards inspected his fine collection of Malvern fossils. - Orthocera 3ft long, Serpulites longissimus nearly 2 ft in length extraordinarily fine Ptilodectya lanceolati (Wenlock) - Trachoderma antiquissima & annulatum (Salter) from Hollybush - (fig^d by Phillips as fucoidal. Bayrichae siliqua in Woolhope Shale - equivalent bed to that I discovered Pterinea & Proetus in at E of Tinker's Pitch - Ankerdine.

Pentamerus boreale - new to England - but a common shell in Sweden - in Caerodoc - (May Hill) by Mr. Dyson. Lingula attenuata or parellula (Salter) in May Hill Sandstone - Orthoceras Subgregarious - Wenlock - (new) - annulatum⁺ discovered to be the siphuncle of Q. Brightii

+ " "

Grindrod's find of fish bones in Up^r Ludlow under examination _ will be found I think to be Crustacean - Acidaspis probably.

Only 1 perfect Olenus yet found in the Black shale - whose shale animal contents are as yet.
Oleni. 2 species
Agnostus pisifosmis

Graptolite. (1) not yet named, found by Miss Margaret Lowe, sister to our Member. Dr Grindrod has the most beautiful Cornulites undulatum I ever saw.

Sat an hour with Falconer at the BelleVue. Speaking of the Turner family of Kidderminster. F. said he witnessed his terrible accident -- falling from a rock, fracturing his skull, and strewing his brains upon the ground -- insensible when picked up, by marvellous to relate -- soon recovered.

F. had been at the lacustrine deposits of Eckington & Defford, but was unable to meet with bones in the terrace beaches there exposed. Told him of Cropthorne, and gave him card to Sanders the Rector there.

Walked with Dr F. to mouth of Tunnel -- where found abundance of Chloritic Serpentine, quite steatitic in character, precisely similar to that found in Quarry at Hollybush where ~~Chloritic~~ Gneissic rock is brought up with the Serpentine. Extraordinary contortions of Red Marl where it comes in contact with it.

Met in Malvern Miss Miller -- daughter of Mr. Hugh Miller - also Geo Cruikshanks the veteran caricaturist, Mr. Hayward, Vicar of Upton & the Baxters, come over to look up lodgings. Left Malvern by Coach at 4. Got down at Little Malvern Turnpike, and walked to Feathers at Castle Morton, thence to Duke of York -- 5 miles, where after cider started again & reached Pendock Rectory, 2 miles further at 8 - just in time for dinner.

A W. Julian Kent & lady staying there -- Symonds & family all well.

Sunday 12th July. To Pendock Church - of which took following Notes --

Nave & Chancel. Late Norman - North Door - good example of late Norman, South door evidently same date. Tower & 2 windows in Nave early Geometrical - (2nd Painted) Square heavy tower -- perhaps once crowned with a spire.

No carving on tympanum of North door, but finely preserved zigzag ornamentation round arch -- vide sketch.

Churchyard though a perfect wilderness of flowers and pleasant shrubs -- nicely kept, and well cared for. Tomb with floriated cross in memory of Mr. Kent Sen^r a good pattern for ecclesiologists.

Fine, but plain Piscina in S. wall of Chancel. ~~Early~~ late Norman arch separating Nave from Chancel.

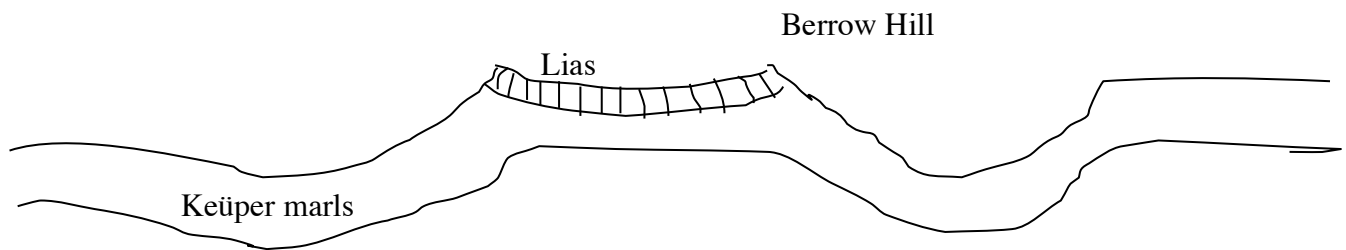
Looked over the Registers after Service finding there abundant mention of the fine old family of the Jakeman's -- (Jaqueman 1550 -- Jackeman 1575. i.e. Man-at-arm ("Jack" the servingman &c.) the Nanfans of Morton Court: the Cockshoots -- ie Coque-shut -- or Cocshott, or Cockshott (1688) - Out rascal - Coq. Norm. from which Coquin -- mod. French -- rascal -- shut -- to get shut of one -- ie -- to get out of one &c. also Milberrow Parry 1678 - Thomas Wingod 1680. a relic of puritanism. Abraham Pisse 1684. (of Chasely.) Margaret Naiow - (1684) Margaret Cockshoot 1601 - Thomas Merry Parson of Pendocke 1602. The Book begins "Heare beginneth the Register Booke of Weddings, Cristenings and Buriales of the Parishe of Pendock 1599. (Copied from an earlier book) from 1550.

Noted the Wild Celery -- growing near the Rectory

Well studied Serm by Symonds. "It is not because no mercies have been received, but that none have been remembered, that no ray of hope lightens our future".

Ascoceras Barrandii - lately found at Hales End in Up^r. Ludlow near the furoid bed. (Orthoceratic of course in character.)

In afternoon walked round the Berrow Hill ascending it, and noting the basin shaped cap of Lias that crowns it. thus --



The whole district a series of anticlinal & synclinal ridges (&c.) of Keuper & Red Marl -

The beautiful Fern Percopteris Liassica found in the Quarry of Lias on the Berrow Hill as also bones of Plesiosauri - Ostrea Liassica in abundance, and the commonly met with Cardinia &c.

In the wood abundance of Chlora perfoliata and, according to Symonds Orchis pyramidalis azeca trideus upon walls near the old farm.

Monday [13th]. Up at 7. Strolled to Quarry of Keuper Grit - finest Quarry in all England of this bed. Palatal teeth of Aerodus tolerably numerous and a few Ichthyodolalites - noted the bone bed, rolled fragments of fish bones mixed with pebbles & gravelley grit - 2 inches or so in thickness. Vegetable bed at the bottom of the Quarry - now covered up by debris -

Mem^d. a section given in Symonds Stones of the Valley. Dr. Falconer & Mr Everett joined us at lunch, when drove over to S-end of Malverns, examined first the decomposed schists (Steatitic) brought up by the igneous outburst - curiously contorted much as the Gneissic beds are in the E. end of the Tunnel. Iron pyrites in irregularly shaped "pockets" - Sulphuret of Iron - minutely chrystallized - with Red Hæmatite. The altered rock apparently identical with Hollybush sandstone.

Traces of vegetables in the same Quarry in a bed of Hollybush above the altered rock.

Next visited ~~the~~ a little open Quarry of Hollybush on W. side ~~the~~ of Ragged Stone Hill. Here abundance of Annelid tracks are noticeable belonging to 3 species - But now it is the "fashion" to call every obscure markⁿg an annelid.

Looked along the ridge of the Black Shale but could not stay long time enough to detect their fossils. Then visited a little boss[?] (one of several) of Hornblendic Syenite much decomposed a top, but its character clearly to be made out by a little breakage - small chrystals of Black Hornblende interspersing it.

In a line with this (the line of Sienitic irruption into the Black Shales,) nodules of Sulphuret of iron with chrystals of Selenite occur, and a spring strongly impregnated with iron, gushes forth in one part of the bed.

Sitting down an hour on Keg's End Hill, Falconer & Symonds argued their ~~sp~~ separate Severn Strait Theories – then we visited the junction of Perm. Brecchia (Haffield Conglom) with Sienites at S. end of Keg's End. Said Brecchia covering up Bromesberrow sandstone Lower Soft New Red.

Falconer tells me that the Cyrena Penmauritana, and C. consabrina, shells of the Grag – may be now met with living in the rivers of Tibet. Here is a marvellous fact for lovers of hard dry lines to ponder over.

A W. Benson, now in England has been waking up the Testacea of India – may be heard of through Woodward (But Mus.)

Falconer, has – with the assistance of the Pliocene deposit of the Sewaliks – made out 20 species of Elephant. Speaking of the Artic temperature that some Geologists claim for the Estuarine (post Tertiary) Falconer said that bones of the Hippopotamus militated against this theory – as that beast could not clothe warmer as Rhinoceri & Elephantine animals could & did in days before & after the Sabrinal Estuary. Gave a lively account of a Swiss meetg of Geologists De la Harpe in the Chair – springless waggons hats on at table – clay pipes & stolidity.

Mem^d Geology of Himalayas

Central axis of granite, with Liassic & Tertiary beds resting on the S. & S.W. sides. The Sewaliks may be called the Sub Himalayas. Many bones were brought by Mr Jacob Turner (related to Abraham Turner) and who obtained them while assisting Dr. Falconer.

Sewaliks 3000 to 3500 ft high – very precipitous ridges. Wonderful variety of mammalian remains but almost the only shells being 14 species of Unio.

Parted with F. S. & E at the Valley of White leaved Oak, and wended my way to Eastnor reached Somêrs Arms at 7- where put up. Strolled to *[he did not say to where he strolled]*

D i^s yom (day)

the ascent or an ascending of light out of the darkness -- according to Phillips.

Tuesday [14th July]. Rambled over the hill opposite the Somêrs Arms before breakfast. Then joined a fishing party at Eastnor – present –

Rev^d. J.H. Hayward – Upton
Mr. Constable – (Edinburgh)
Mr. Bulmer
Rev^d W S. Symonds &
Julian Kent & wife

dined at the Somêrs Arms at 2. On the Lake in boats till 8. No sport, a very idle day.

Wednesday. [15th Jul]) Up at 6. To Eastnor examg cutting of Lower Ludlow near Farm, back of Church Graph littus priodon & Lituities cornuarietis. Then to Aymestry Limestones of S. of Ledbury – nothing remarkable discovered – Lunched at Ledbury with a Mr. Baylis – Auctioneer

&c. Examined a remarkable fine Oak carved Cabinet, temp. Hen VI. enriched with full length figures of Jupiter & Eagle - Mars & Venus &c.

Called on a man named Brooks Shoemaker who collects for Grindrod, and under his guidance visited the Frith Quarry of Up^r Ludlow - Examined the beds W. of this especially noting the spot Salter marked as covering[continued later]

The value of the Mosaic Narrative is this, that it is a record of the Earth's formation as broadly adapted for all time as it was preeminently suited to the ideas of a patriarchal nation but in which a ~~his~~ inner & deeper history lies hidden - which an advanced state of human knowledge alone c^d read - but which no more disturbs the truthful teachings of the surface than the relics of animal life in the quarry, negative the system which supports the living tree above it, ~~or~~ and as completely in harmony as were the phenomena of old to those now active upon earth.

In no other language c^d this grand enigma have been penned: the remarkable inflexive power of the Heb. enabling ~~the words to~~ it to sustain a deeper signification than ordinary acceptance of the words.

[New Page])

Books. Serials.

Saturday Review. Vols I. II.

Notes & Queries - Vols V. VI. VII. VIII. IX. X. XI. XII.

Notes & Queries. New Series Vols I. II.

Little Dorrit. N^o. 1. to -

Weekly Worcester Journal. for 1725-6 (1 vol.)

Shakespeare - (Routledge's 1857) No1. to

Conchology and Geology

Page's Advanced Text Book – Geology 1856.

Morris Cat. Brit Fossils. 2nd Ed. 1854.

Woodward's manual of the Mollusca 1856.

Turton's Manual of the Testacea (Gray) 1840.

Catlow's Popular Conchology – 1843.

Hanley's Conchologist's Book of Species 1843!

Symond's Old Stones 1855.

Symond's Geology as it affects Plurality of Worlds 1856.

Babington's Manual of Brit. Botany 1856.

Sowerby's Ferns of Great Britain – colored 1855.

Sowerby's Fern Allies – colored 1856.

Drummond's Letters to a young Naturalist 1831.

Introduction to Natural System – 8 vo pampl. 1855.

Lees' Pictures of Nature 1855.
 Lees' Botanical Looker-Out 1851.
 Sowerby's Popular Mineralogy 1850.
 Ancient Works.
 Joab et Amasa - treatise in German - 1511. fol.
 Biblia Sacra Latina - Lugduni 1500. 8 vo.
 Biblia Sacra Latina - Lugduni 1551. 8 vo.
 L'Estrange (H) Reign of King Charles 1655. fol.
 Milton's Paradise Lost. 3rd Ed. 1678. 8 vo.
 Scotts' Vox Cæli -----1624. 4 to t
 Shaw's Brittain's Remembrances. (York) 1644 4 to
 Estate of English fugitives in Spayne. 1595. 4 to
 The Alcoran of Mahomet. 1649. 8 vo
 Cowper's - Heaven Opened - (Bp. Hall's Copy) 1613. 4 to
 Albion's England 1602. 4 to
 Tymme's "Fyrst parte of Commentaries" 1573.
 Camden's Remaines. (4 to) 1637.
 Life of Merlin 1641. (4 to)
 Copies of Papers Written by the late King Charles 4 to tract. 1686.
 Murder of Archbishop Sharpe (Account of) 1723.
 A Spittle Sermon - 1687.
 Howell's Pedigree of Parliament 1645. tract
 Howell's England's Fears 1645. tract
 Chapman's Serm. 1749.
 An Expedient to preserve Peace &c. 1647. tract
 Leicester's Commonwealth 1641. 4 to
 Leicester's Ghost 1641. 4 to
 Prophetæ Minores 1567. (in Heb.)
 Julii Cæsaris 1621. 18 mo
 Histoire du Roy Henri le Grand 1678. (Elzevir.
 Wicksteed's Preparation _ (a signed copy) 1740.
 Baker's Well Spring of Sciences 1612.
 Quevado's Visions - 1774.
 Langley's Death of Charles lamented 1660.
 Preparatio ad Sacram Communionem (MS) 1650.
 Hudibras - The Second Part - (Spurious) 1663.
 Opticke Glasse of Humors - 1639.
 Christ's Passion. A Tragedie. 1640.
 Roger's Good Newes from Heaven - 1627.
 Culverwell's Time Well Spent. (Charles 1st Copy) 1634
 Seven Words of the Cross - Dutch MS. Rubricated ~~46~~ (1420)
 Bave (Antony) M.S.S. - 1650 (Sem. &c.)
 Quarles' Boanerges and Barnabas 1660
 Universalis Historia ~~1657 to~~ 1660.. 1 vol. complete.

Taurinus Emblemata 1602
 Ciceronis Epistolæ 1565 - (Plantini)
 Alciati Emblemata 1584. - (Do) -
 Neri (Antonia) Vitraria 1668
 Ovidii Metamorphoses - 1659. Elzevir.
 Belon du Mans' Les Observations Singularites (1555)
 Quintus Curtis Alexander – 1614. Black letter -
 Practise of Piety 1639.
 Bifield's Marrow of the Oracles of God - 1640
 Simpson's Perfection of Justification 1648
 Angiere's Help to Better Hearts 1647
 Lockyear's England Faithfully Watched 1646.

[New Page] [Torn so only left hand quarter of page extant.]

Lis.....

No.

1. Satur.....
2. Old
3. Notes
4. L'Estran.....
5. Joab e.....
6. "Weekly

[New Page]

C. Heidmanii Palæstina 1665.
 Raymundii Sebundii Viola Anime. 1499
 Agrippa's Vanities of the Artes 1575.
 Jerome's Seven Helpes to Heaven 1620.
 New Test - in French & Germ. Basle. 1746.
 South (D^r) Sermons 1679.
 Bonanni ' Siracusa illustrata 1624.
 Pesente ' Pellegrinaggio di Gierusalemme. 1615.
 Wright's Passions of the Minde 1630.
 Caudrey's Treasurie of Similes 1609.
 Petri' Pontani Cæci Brugensis &c. 1510. Gothic
 The Treasure of Eronimus 1560. Black letter.
 The Townshend MSS - 1640 – 60 in 1 vol.
 Ursinu's Romane Conclave 1609.
 Baxter's Funeral Serm. 1692.
 The Parents Primer 1682.

Cole's English Dict. 1708.
Sachevral Tracts - in 1 vol 1704 et alii.

Antiquities &c.

Bohn's Hand Book of Proverbs 1855.
Bellett's Antiquities of Bridgenorth 1856.
Allie's Antiquities of Folk lore of Worcês 1852.
Allie's Mare & Colt Tracts &c. 1840
Murray's Truth of Revelation demonstrated 1840.
Hone's Apocryphal New Testament 1820.
Amphlett's Key to the Revelations 1856.
Lowth (Bp.) "Isaiah" 1795
Kemp's "Nine Daies Wonder". (Reprint 1840.)

Newland's Lectures on Tractarianism 1855.
Qschylus - Bohn Clas.Lib. 1849.
Sophocles Tragedies. Bohn Clas.Lib, 1849.

[New Page]

Poetry &c.

Tennyson's Poems 1855
----- Maud 1855
----- In Memoriam 1855
Massey's Craigcrook Castle 1856.
Longfellow's Poems 1850.
Dickens' Hard Times 1854
Shakespeare Works 1849 1vol.
Quarles' Divine Emblems 1678.
Quarles' Divine Emblems 1845.
Smollet's Don Quixote 1818. 2vols.
Milton's Paradise Regained 1779.
Mariotti Scenes from Italian Life 1850.
Mahon's Life of Condè 1845.
Longfellow's Hiawatha 1856.

Krummacher's Elisha 1854.

[New Page]

Bayley's Gram. Hebrew 1782.

[New Page]

[continuation from page 75]

..... up the Up^r Ludlow bone bed - Set to work and after carefully examining & tapping every layer of stone, made out 3 distinct Beyrichiæ beds - the lower of which is most likely ~~that~~ identical with the Ludford Beyrichiæ bed, as Trochi occur with the Phyllopods. Took a section of the place & sent Symonds (same night.)

Abundance of Serpulites longissimus

Orthoceras boletum

Trachyderma coreacea

Atrypa

Mem^d a fault exists here, not marked by the Ordnance men.

Returned to Somêrs Arms to dinner at 7. Found letter summoning me home, so forced to write to Symonds _ excuses &c. - as intended to have returned to him in the morñg.

Examined a quarry opposite "Arms" of Lower Ludlow rock.

Thursday. July 16. By Coach to ~~Cross Inn~~ Malvern. Called at Burrow's & left a good spe. of Beyrichiæ for transmission to the Meetg at Upton tomorrow. Through to Worcester, calling on Reece & Baxter. Home at 5.

Sunday. July 19. Took Charles Lewis to Mr. Jos. Chellingworths ~~to tea & s~~ to wine & supper. Charles sang admirably - a most pleasant evening.

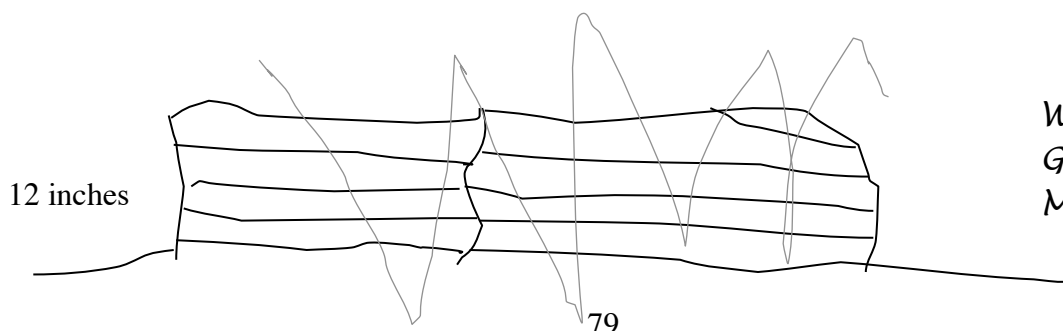
Monday July 20. Went with Charles Lewis to supper at the Giles' - Singing of course.

Sunday July 27. To Romsley to spend the day with Creswells. Joined them at Alveley Church. Called on Considine to examine a good fragment of Lepidodendron from Forest of Dean - which he took to be a portion of an Amblyterus.

The Vails at tea & Hessells. home at 9.

Monday. Rev^d. G. Pardoe called to enquire (for a friend) respecting my Old Red Sandstone finds.

Friday July 31. Walked to Trimpley after takg a glass with J Chellingworth Exam^d the Tilestones & then walked through Eymoor Wood - crossing the Dyke - and examg a bed of compact Carbon - Sandstone which has such an affinity to the Perm. Brecchia - that it may be the home of that drift - Well stratified - thus --



Wrong
G.E.R.
March 1859

Called at a Mr. Page of Eymoor - but c^d. get no reliable information respectg the bed of shell gravel said to have been ~~fr~~ worked some years back near the Rickyard.

Ret^d home through Bewdley - about a mile below Eymoor a fine bed of yellow Carbon - Sandstone exposed, with abundance of Ferns. Pecopteris agiulina &c.

Called to tell Baugh of the place, and request him to visit it tomorrow. Home at 10.

Sunday Aug 2. Very hot, stayed in all afternoon, revising Habberley Sheets - strolled in the Eveñg to Hurcott, but found nothing of note.

Tuesday Aug 4.

[Here, on the last page of the notebook the final entry ceased - incomplete.]