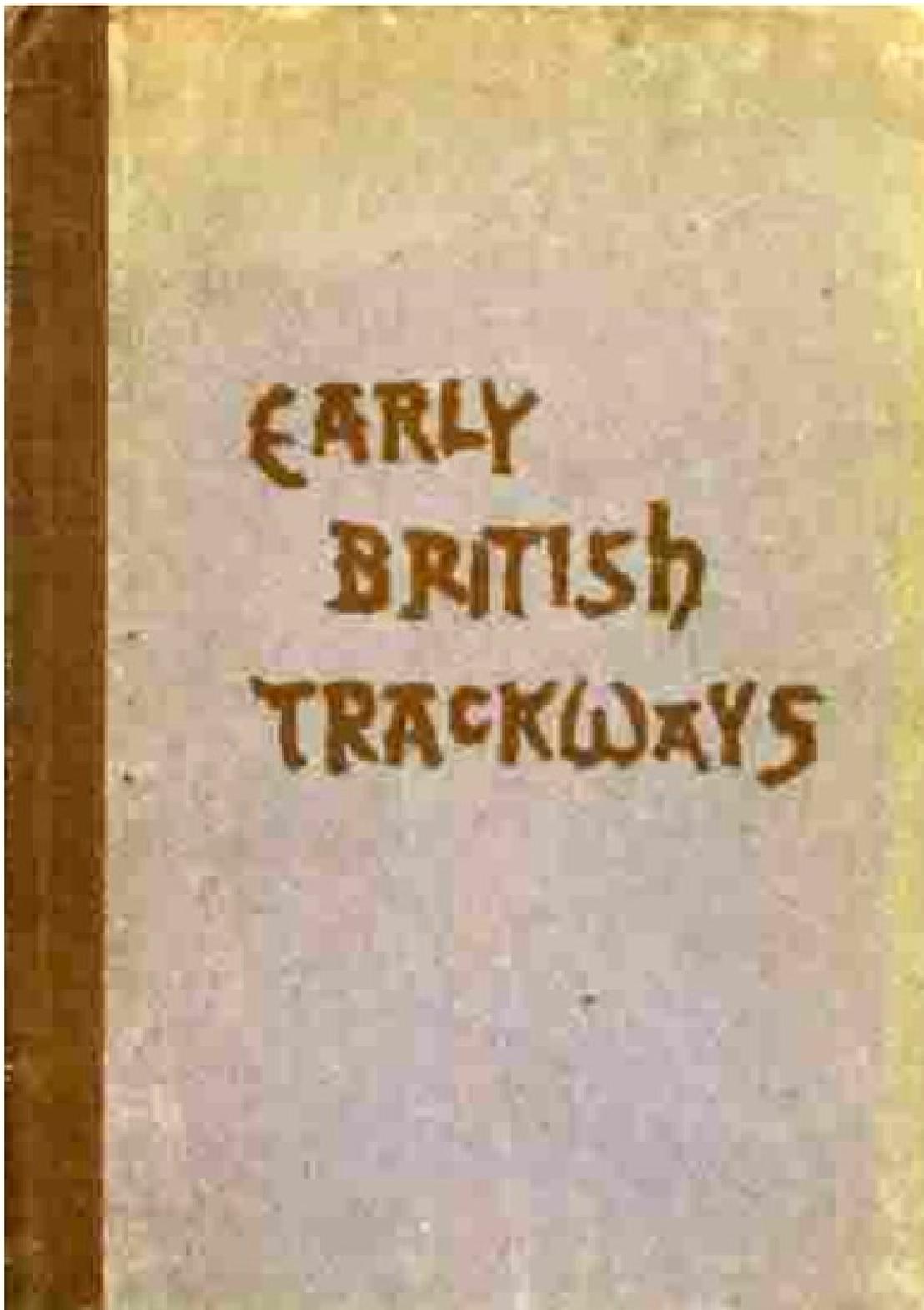


Early British Trackways, Moats, Mounds, Camps and Sites



By Alfred Watkins

1922



The original cover to this book

Early British Trackways, Moats, Mounds, Camps, and Sites.

A Lecture given to the Woolhope Naturalists'
Field Club, at Hereford, September, 1921.

By ALFRED WATKINS

Fellow and Progress Medallist (for 1910), of
the Royal Photographic Society; Past
President (1919) of the Woolhope Club.

With illustrations by the Author, and much
added matter.

[1922]

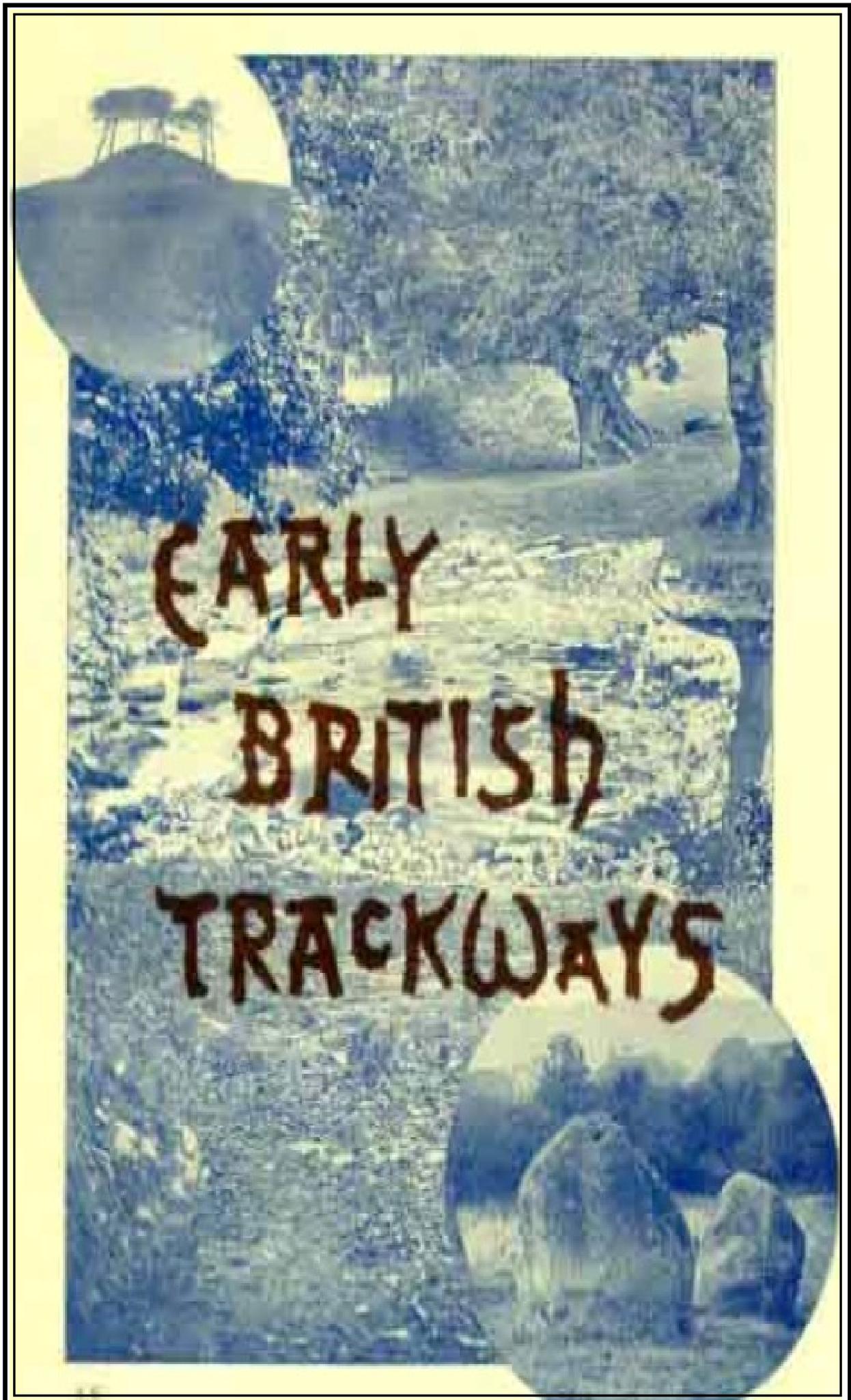
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Preface

This was the first book about ley lines. Ley lines are alignments on the landscape of natural and artificial features, some of which follow perfectly straight tracks for miles. First discovered in Britain by the author of this book, Alfred Watkins, a photographer and inventor, ley lines were pursued eagerly by organized clubs in the period between the world wars. Interest in leys died out after the 1930's, but was revived in the 1960's, after the publication of a popular book on the subject, *The View Over Atlantis*, by John Michell. Latter-day ley-hunters took the concept much further than Watkins and the earlier enthusiasts. Dowsing, flying saucer paths, crop circles, bio-dynamic farming, and feng shui have all been associated with ley lines. Collections of ley lines have been said to conceal hidden messages, reveal the location of esoteric items, or contain star maps. The existence of ley lines is now one of the accepted tenets of New Age belief. This topic is collectively called 'Earth Mysteries'. However, they aren't just limited to this planet: leys have even supposedly been charted in the Cydonia region of Mars in the vicinity of the 'Face of Mars'. Watkins never attributed any supernatural significance to leys; he believed that they were simply pathways that had been used for trade or ceremonial purposes, very ancient in origin, possibly dating back to the Neolithic, certainly pre-Roman. His obsession with leys was a natural outgrowth of his interest in landscape photography and love of the British countryside. He was an intensely rational person with an active intellect, and I think he would be a bit disappointed with some of the fringe aspects of ley lines today.

Originally just the existence of ley lines was considered speculative by academic archaeologists and topographers. Since Watkins, there have been similar alignments discovered in far-flung locations, including the Atacama desert of Chile, the Southwestern United States, and other places; all of these can be directly traced to human activity, and associated with ceremonial and astronomical activities. So this probably makes the concept of similar alignments by Neolithic Britons more acceptable to traditional academics, once all the mystical connotations are subtracted.

Watkins wrote several other books on this topic, including *The Old Straight Track* [1925], and *The Ley Hunter's Manual* [1927]. These books go into much greater detail but essentially cover the same set of points in this, his first book on leys. All of Watkins' books are long out of print, although used copies can usually be obtained easily (if not cheaply).

--John Bruno Hare, June 17th, 2004.





FRONTISPIECE

- 1. Castle Tomen, Radnor Forest.**
- 2. A Glade on a Ley.**
- 3. Four Stones, New Radnor.**



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PLATE I. PRIMARY PEAK. Titterstone Clee Hill, and Park Hall, Bitterley.

PLATE II. MOUNDS. 1, Trefedw, Pandy. The Skirrid, a primary peak, in distance. 2, Didley. With homestead alongside.

PLATE III. MOUND AND MOAT. 1, Houghton Mound. 2, Lemoore Moat. Note how slight is the dividing line between this type of mound and a moat.

PLATE IV. THREE-POINT PROOFS. 1 (a telephotograph), Hereford Cathedral and Pen-y-Beacon. Here the camera stood on a known ley in gateway near top of Hafod Hill, and the line runs through pond at foot (marked by sheet of paper), tower of Cathedral, and the 20 mile distant mountain point or bluff. Another ley is seen crossing the meadow in a straight line just where "the lowing herd winds slowly o'er the lea." 2, Tre-fedw Mound (see Plate II.), shown at top of sighting line down present road to ancient Monnow ford (alongside present bridge) at Llanvihangel Mill.

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PLATE XX. MAP. Portions of eight leys passing through Capel-y-tair-ywen (Chapel of the three yew trees), a chapel site, originally a mound, described in Woolhope Transactions, 1898, p. 38, on the high plateau below the great northern escarpment of the Black Mountains. A, Hay Tump (near church ford) to Pen-y-Beacon, on to Castle Tump, Rhos-goch. B, Mouse Castle to Tumpa, passes through Maes-coch (red field), Priory Wood, and the ancient "red" pottery, Whitney. C, Merbach to Llanellieu Church. D, Mynydd-brith Tump to Talgarth Church. E, Castle Tump, Dorstone, to Moat at Felin-fach. F, Snodhill Castle to Aberllynfi Gaer; beyond Snodhill it passes to or through Holy Well, near Blakemere. G, Michaelchurch Escley to Llanigon Mound. H, Black Hill (Olchon) to Painscastle Mound.





FOREWORD. To the Average Reader



judge that you pick up this booklet with much the same ideas on the subject that I had a few months ago. The antiquarians had not helped you or me very much, but had left us with vague ideas and many notes of interrogation.

On early trackways they alternated between a misty appreciation of hill-tracks and ridgeways, and an implied depreciation of all track-makers before the Romans came. To learn the meaning of mounds they did not go beyond the child's investigation of a drum, cut it open to see; and, if nothing was there, quite failed to profit by such valuable negative evidence. In perhaps one moat in five they found a dwelling, and argued finely on the defensive importance of a ring of water; but as to the other four, with no dwelling, and in unexplained positions, they closed their eyes.

I do not know, dear reader, whether you will be as much astonished in reading the new facts which I disclose, and the deductions I feel obliged to make, as I have been in the disclosure. Frankly, if another person told them to me, I should want to verify before acceptance. And I try to aid you to verify. But do note this--that the important point in this booklet is the previously undiscovered string of facts, which make it necessary to revise former conclusions. My deductions may be faulty. But the facts are physical ones, and anyone can test in their own district whether moats, mounds and churches do not line up in straight lines with a hill peak at one end, and with bits of old tracks and antiquarian objects on the line.

So please do not begin with the false--as being inapplicable--word "theory." I had no theory when, out of what appeared to be a tangle, I got hold of the one right end of this string of facts, and found to my amazement that it unwound in orderly fashion and complete logical sequence. Make your own deductions when you have verified, and I have tried to help you.





PLATE I. PRIMARY PEAK
Titterstone Clee Hill and Park Hall, Bitterley



PLATE II. MOUNDS

- 1. Tre-Fedw, Pandy. Skirrid in Distance.**
- 2. Didley.**



EARLY BRITISH TRACKWAYS. MOATS. MOUNDS, CAMPS AND SITES INTRODUCTION



have read of a lad who, idly probing a hill-side rabbit hole, saw a gleam of gold, then more, and in short had found a royal treasury. And he could not show all to those interested, but only samples, and he made mistakes in describing the dates and workmanship of the coins, vessels and jewels. But the treasure was there all the same.

I knew nothing on June 30th last of what I now communicate, and had no theories. A visit to Blackwardine led me to note on the map a straight line starting from Croft Ambury, lying on parts of Croft Lane past the Broad, over hill points, through Blackwardine, over Risbury Camp, and through the high ground at Stretton Grandison, where I surmise a Roman station. I followed up the clue of sighting from hill top, unhampered by other theories, found it yielding astounding results in all districts, the straight lines to my amazement passing over and over again through the same class of objects, which I soon found to be (or to have been) practical sighting points.

For the sake of clearness I will give an outline of the whole method before furnishing proofs and examples.

It is necessary first to clear the mind of present ideas of roads from town to town, or with enclosed hedges, also of any assumption that orderly road planning was introduced by the Romans, and that my paper is to explain the Roman roads.

Presume a primitive people, with few or no enclosures, wanting a few necessities (as salt, flint flakes, and, later on, metals) only to be had from a distance. The shortest way to such a distant point was a straight line, the human way of attaining a straight line is by sighting, and accordingly all these early trackways were straight, and laid out in much the same way that a marksman gets the back and fore sights of his rifle in line with the target.

p. 10

During a long period, the limits of which remain to be discovered, but apparently from the Neolithic (later flint) age on past the Roman occupation into a period of decay, all trackways were in straight lines marked out by experts on a sighting system.

Such sighting lines were (in earlier examples) from natural mountain peak to mountain peak, usually not less than 1,000 ft., in this district, probably lower heights in flat districts, such points being terminals.

Such a sighting line (or ley) would be useless unless some further marking points on the lower ground between were made. Therefore secondary sighting points were made, easily to be seen by the ordinary user standing at the preceding sighting point, all being planned on one straight line. These secondary, and artificial, sighting points still remain in many cases, either as originally made, or modified to other uses, and a large number are marked on maps, and are the basis of my discovery.

They were constructed either of earth, water or stone, trees being also planted on the line. Sacred wells were sometimes terminals in the line, and sometimes included as secondary points.

Between the sighting points the trackway ran straight, except in cases of physical impossibility, but did not of necessity go as far as the primary hill tops.

Earth sighting points were chiefly on higher ground, and now bear the name of tump, tumulus, mound, twt, castle, bury, cairn, garn, tomen, low, barrow, knoll, knap, moat and camp. Another form of earth sighting point was in the form of a notch or cutting in a bank or mountain ridge which had to be crossed by the sighting line.

Water sighting points seem to have evolved from the excavations made for the tumps or moats. Almost all are on low ground, to form a point or ring of reflection from higher ground, and are now known as moats and ponds.

Stone sighting or marking points were natural (not dressed) blocks.

Sighting lines were (in earliest examples) up to 50 or 60 miles in length, later on rather shorter, down to a few miles.

Sighting points were used for commerce and for assemblies of the people.



PLATE III. MOUND AND MOAT.

1. Houghton Mound.

2. Lemoire Moat

When troublesome times came and stronger defences wanted, the groups of two or three sighting tumps which came near together (especially on the top of a hill) often had defensive earthworks added to make a fortified enclosed camp.

These trackways of successive ages grew so thick on the ground as to vie in number with present day roads and by-ways.



PLATE IV. THREE POINT PROOFS.

- 1. Sighting Pond, Hereford Cathedral, Pen-y-Beacon.**
- 2. Ford at Llanvihangel Mill, Road, Tre-Fedw Mound (See Plate II.)**

All forms of sighting points became objects of interest, superstition, and genuine veneration, and as such were utilized on the introduction of Christianity.

Practically all ancient churches are on the site of these sighting points (tumps or stones), usually at a cross of tracks, and there is evidence that in some cases the churchyard cross is on the exact spot of the ancient sighting or marking stone.

In time, homesteads clustered round the sighting points, especially the ponds.

The moats and tumps were often adopted in after ages as sites for the defensive houses or castles of wealthy owners.

Hundreds of place names give support to these propositions.

PROOF

The facts I have discovered, which lead up to the conclusions, can be verified for the most part on an inch to mile ordnance map with aid of a straight edge.

Taking all the earthworks mentioned, add to them all ancient churches, all moats and ponds, all castles (even castle farms), all wayside crosses, all cross roads or junctions which bear a place name, all ancient stones bearing a name, all traditional trees (such as gospel oaks), marked on maps, and all legendary wells. Make a small ring round each on a map. Stick a steel pin on the site of an undoubted sighting point, place a straight edge against it, and move it round until several (not less than four) of the objects named and marked come exactly in line.

You will then find on that line fragments here and there of ancient roads and footpaths, also small bits of modern roads conforming to it. Extend the line into adjoining maps, and you will find new sighting points on it, and it will usually terminate at both ends in a natural hill or mountain peak, or sometimes (in the later examples) in a legendary well or other objective. If you travel along the actual sighting line you will find fragments of the road showing as a straight trench in untilled land,

although these are few and far between, as the plough obliterates it all. The line usually crosses a river at a known ford or ferry. Sighting tumps not marked on the map are also to be found.

Two specific proofs are illustrated in Plate IV and explained in the Table of Illustrations. Also from the highest point of the earthworks of Dinedor Camp the spire of All Saints' Church can be seen precisely between the pinnacles of Hereford Cathedral, thus showing a sighting tump and two churches on one ley. The Offa Street example (see under Churches) is another three-point proof.

THE LEY

The sighting line was called the ley or lay. Numbers of farms and places on sighting lines bear this first name, viz., the Ley Farms, Weobley, Grafton, Stoke Edith, and many other places. Wyaston Leys, Monmouth, Tumpey Ley and Red Lay, near Letton, and Redley in Cusop parish. There were cleverly planned high level mountain tracks which, although on an average sighting line, could not (being on the side of a mountain ridge) keep straight, but took a serpentine course, in round the cwms, and out round the headlands. But viewed edgeways they are a straight line (see Plate VIII) as keeping a uniform level or slope. Such are found high on the Malvern ridge, the road (on three leys) through Oldcastle to Blaen Olchon, the lovely Bicknor Walks near Symonds Yat, the Precipice Walk near Dolgelly.

There are signs of parallel trackways quite close together, whether one to take the place of an older one I do not know. And between Malvern Wells and Hanley Swan are three symmetrical triangular woods (see Map, Plate XIX.), which I find indicate parallel roads, one-sixth mile apart, running northwards, and with a collecting road here at right angles, which comes over the ridge and through Mainstone Court. There are six of these equidistant parallel roads.

The fact of the ley is embedded in the rural mind. A country man in directing your path will invariably bring in the now misleading, but once correct, "keep straight on." It was once absolutely necessary to "keep straight on" in the ley, for if you did not you would be de-leyed on your journey. This is not said as a pun, but as in some succeeding sentences, to point out the place of the ley in the evolution of our language.

Where the ley laid in a wood became a glade (see Frontispiece). We came through one over Worsell Wood in a Club excursion on our way to Gladestree. Where the ley had lain for a time often became a lane. This last noun became a verb used in the 18th century enclosure acts, where ground was "laned out." Where it was so laned out it became land. There is a Laynes Farm near Huntley.

It is still a common phrase to go out to see "the lay (or lie) of the land."

The trackways are chiefly 6 feet 6 in. to 9 feet wide. I illustrate two pitched causeways at Longtown, a fine one through the Monnow near the Tan House, and the other close to a ford over Olchon Brook (Plate VI.). Another through the farm yard at Ingestone (Ross) going to the centre of the sighting pond (Plate VII.).

ANTIQUITY OF THE LEY

The word "ancient" covers a vast period. If--as I have proved--the tumps or burys are sighting tumps, excavations also prove that they usually date back to the Neolithic age, which, according to Mr. Ault's recent "Early Life in Britain," cannot be later than 2,000 B.C., and may be 4,000 B.C. A prehistoric trackway might, therefore, be planned and made more than three thousand years before the Old Road (which is a route rather than a road) was devised or evolved--as Mr. Belloc so well describes--as a Pilgrim's Way from Winchester to Canterbury.

I have found that the persistent things down the ages are not the courses of the roads or tracks, but their sighting points, and that cross roads with a place name are such. Place names are also persistent, some of them going back to prehistoric times, but others evidently mediæval. But the real dating of the leys and when the system fell into decay is for future investigation.

INDIVIDUALITY OF A LEY

Each ley or track was as separate and distinct from other leys as each animal or tree is an organism distinct from other animals or trees. As they crossed each other, no doubt users often transferred from one to the other at the crossing, and struck out in an altered direction, hence the place name element "turn." But the way thus travelled was a route, not a road. It is an absurdity to speak of a sighted road having branches, or bending. Each individual track was "a long lane that has no turning."

Previous writers, treating, say, of Roman or of mediæval roads, not knowing of the existence of the ley, assume that they are speaking of original primary structures, when they are only describing a route evolved from a number of the leys I describe, retaining the sighted structure in the case of Roman roads, but losing most of it by mediæval times.

Many leys acquired in after ages individual names from the use they were put to, and such names were transferred to the sighting points.

I find in several cases a group of leys with sighting points passing quite close to, and taking no notice of, quite a distinct group of leys with other sighting points, the two sets being either of two different periods, or part of separate systems made by different sets of ley-men living in different districts.

A most surprising fact is the enormous number of leys.

MOUNDS

The mounds whose many names I have mentioned are artificial. I do not question the fact that they were often used as burial mounds, and perhaps even built with that end in view; but the straight leys on which I find practically all in this district line up (in connection with other sighting points) prove their primary purpose to be sighting tumps. Arthur's Stone, a dolmen, which was probably the core of a burial tump, is on two sighting fines.

I find various stages of evolution of the tump. The small tump at a road junction for the local road construction, examples at Cross in Hand, Belmont, Hungerstone, Shelwick old Turnpike, near Bowley Town (called the Stocks). With most of these the pond from which the earth was dug adjoins. When much larger tumps were wanted the trench of earth to make them was dug in the form of a ring, and a moated tump resulted, as at Eardisland (with water), Pont Hendre, Longtown (dry). The water in these excavations proved to be splendid sighting points by reflection from higher ground, and the moats with no tump but a flat plateau within a ring of water evolved. Many tumps on banks, as at Tre-Fedw, near Pandy, show no excavations. Many tumps were at the junction of leys, showing the technical skill of the early surveyors, who must have moved a temporary sighting point on one ley until it fell in the line of a second ley. A sighting tump always commanded a fine, clear view in at least two directions, and in after ages was coveted as a dwelling spot. At Didley is an instance of the simple homestead against it. Thus sighting produced the sites, this being only one of many instances where the record of the ley is embedded in the English tongue. The generic name of Merry Hill applied (as near Hereford) to many tumps gives a clue to their use as assembly points for recreation, confirmed by folk lore and surviving customs of dancing in a circle with hands linked. The folk-mote was held at a tump with a dry moat, so admirably adapted for seating.

EARTH CUTTINGS.

Where a mountain ridge stood in the path of a ley, the surveyor, instead of building a tump on the ridge as a sighting point, often cut a trench at the right angle and in the path of the ley. This shows as a notch against the sky and makes a most efficient sighting point from below. I have counted eight such artificial notches in the mountain ridge when on the road from Llanvihangel Crucorney to Longtown. Each notch can only be seen on the line of sight, and disappears when a quarter of a mile right or left. They are sometimes emphasised (as at Trewyn Camp) by an earth work thrown up on one side. The Wych on the Malvern ridge is an instance.

The two fine gaps near Flansford (Goodrich) and Marstow (Plate V.), both with bridges over them, are also ancient sighting cuttings.

The sighting cuttings were also used in passing over banks in lower ground. Cullis is one of the names for such an earth cutting, as Portcullis between Withington and Preston Wynne, and High Cullis above Gatley Park, recently visited by the Club.

There is a very neat example of such a cutting at Hungerstone, near Allensmore, where the cutting in the bank allows the ley to be sighted on to a pond on its way to the next tump, the one close to the church at Thruxton.



PLATE V. SIGHTING CUTTINGS
1. Trewyn Camp, Black Mountains.
2. Marstow, Road Spanned by Bridge.
3. Black Darren, Longtown.



PLATE VI. CAUSEWAYS.

1. Through Pond, Ten Houses, Holmer.

2. Through River Monnow, Longtown.

The word hunger (a common place-name element) indicates, I think, a cutting through a bank, not the bank itself, as now surmised. There are cuttings at most fords, which permit the water to be seen from above and serve as sighting points. The cutting near Charing Cross, which gives the name to the present Hungerford foot-bridge, probably came down through Inigo Jones' beautiful Water Gate.

Mr. Codrington in his book on Roman Roads describes the method used by Roman engineers "well known to surveyors for laying out a straight line between extreme points not visible from each other, from two or more intermediate points from which the extreme points are visible. By shifting the intermediate points alternately all are brought to lie in a straight line." This method was evidently used for all the leys.

WATER SIGHTING POINTS

I have suggested how these might have developed from the tump, and shown where pond and tump were used together. Moats are a similar arrangement on a larger scale. The trackways go straight for the island part of the moat. It is not the least amazing part of this revelation that I find practically all the small horse or cattle ponds in field or homestead which are marked on a 6in. ordnance map have leys running through them, and that examination in dry seasons shows signs of the road passing through them. "And when we cleaned the pond out we found it cobbled at the bottom" is a frequent report made by a farmer. I show a photograph of one of these at Bridge Sollars, with the trench of the road beyond.

A beautifully constructed causeway of even pitched stones is to be seen at the foot of Holmer Hill (Plate VI.). It has well defined edges, and lies at the bottom of a small sighting pond. In the crevices of its stones I found fragments of crude red pottery, with a bit of early (Anglo-Saxon) ornament, a bit of iron slag, and a bit of iron. This ley is sighted on the North Hill, Malvern.

I cannot say that passengers walked through the bottom of these ponds (most of them have one shelving edge, with the opposite bank steep), but to this day an ancient road (at Harley Court, Hereford) does go through the bottom of a small pond, being sighted through the Cathedral.

When there is a large central island on a moat I surmise early dwelling houses--a subject for spade research. There evidently came a wish for roads not running through the water, and a pair of ponds or lakes with a causeway between, such as we find at Holmer fish ponds, is frequently found on the map, and is the sure indication of an ancient trackway. Probably the square moats are later than the circular ones. I saw in the grass the track of a 15-foot road (probably Roman construction) making straight for the centre of Yarkhill Moat.

Many ponds (as at Belmont, The Burcot, and adjoining Ledbury Churchyard) not known as moats are really such, their islands being sighting points.

The causeway to the centre of the moat evidently suggested their use (many ages after they were made) as a defensive ring of the house of a rich owner, as at Brinsop, Badesley Clinton, Gillow, etc.

I think that the word lake, now used for large sheets of water, was originally applied to small reflecting sighting ponds as well. The place names of Sutton Lakes, Withington Lakes, Letton Lakes, and Tumpy Lakes are explained by this theory.

MARK STONES

These (Plate IX.) were used to mark the way. They were of all sizes, from the Whetstone on Hargest Ridge to a small stone not much larger than a football. Some were long stones or menhirs, but few remain upright in this district. I know of three lying fallen on leys, namely on the wall

at the south gate of Madley Churchyard, near the inn at Bush Bank (cross road from Weobley), and used as a bridge over a ditch near the Field Farm on the Litley-Carrots path.

I show photographs of a fine stone at Red Lion, Madley, having a flat top, and of the type which developed into market stones. The market stone at Grosmont Town Hall (on which the first market basket placed on market day paid no toll) is the successor of such a mark stone. Two marking stones (with ancient brick houses built partly on them) stand unnoticed in the short Wye Street, just over Wye Bridge at Hereford. They mark the Palace Ford, and a ley from Castle Hill to Hunderton. They are of the same peculiar stone (not "old red") as at Madley, Colwall, etc.

Wergin's Stone (Plate X.) is a late type of mark stone which was the prototype of the churchyard and wayside crosses, all of which I think are on the sites of original mark stones, as I find leys passing through them.

In studying such crosses, I was puzzled to find several (as at Vowchurch, Hentland, Capel-y-fin) with ancient rough unworked stones as a base. I am now certain that these bases are the original stones marking a ley. The Pedlar's Cross near Pen-y-lan Farm above Llanigon (mentioned in Miss Jacob's fine story, "The Sheep Stealers") has been chipped into a rude suggestion of a cross without taking down, and a flat mark stone on which Archbishop Baldwin is said (by tradition) to have preached when on his tour with Giraldus in 1188, has had a cross inscribed on it. It stands close to St. Ishaw's Well at Partricio.

There is a striking marking stone on the Rhiw Wen route in the Black Mountains.

Other stones on leys are:--White Stone, Withington (with original stone at the base of an inverted fragment of its successor--a wayside cross); Queen Stone, Huntsham, at Credenhill cross-roads, at the foot of From's Hill, on the road near Turnaston Church, marking a ford at Bartonsham Farm, Hereford, and Crossways, Bollingham. The stone that all the Kings of England are crowned on is certainly a mark stone.

SIGHTING STONES

Mark stones may be on one side of the track, as are the whitewashed stones which mark a coastguard's cliff walk to-day. But there also appear to have been sighting points of stone exactly on the ley, so constructed as to indicate its direction.

The Four Stones near Harpton, New Radnor, are four upright boulders (see Frontispiece) in an irregular quadrangle, and no one has explained their purpose.

I took sighting lines over successive pairs of stones, five lines being possible, and although the work on the map is not yet completed, I can definitely say that the "Four Stones" are directing posts which point out at least two leys, proved by passing through other good points. The first goes to the highest point in Deerfold Forest (The Camp, 940 ft.) in one direction, and in the other through The Folly and on the main road at Llanvihangel-nant-Melan, over Bryn-y-Maen Hill, here appearing to strike another "four stones," and through Llansaintfraed in Elvel Church to some peak beyond.

The second ley starts from Bach Hill (one of the highest parts of the Radnor Forest); through the Four Stones, dead on main road through Walton village, dead on main road past Eccles Green, through Upperton Farm and Kenchester Church, and dead on the present road which is the S.W. boundary of the Roman station of Magna; then going over the Wye through Breinton Church. Bitterley Churchyard Cross has a circular hole through its shaft at a convenient height for sighting. Mr. J. C. Mackay kindly had the exact direction of this taken for me by sighting compass. It is $28\frac{1}{2}^{\circ}$ E. of Magnetic N., and this on the map exactly strikes Abdon Burf (or Barf), the high point

(1,790 ft.) of the Brown Clee. Southwards the line runs through Stoke Prior and Hope-under-Dinmore Churches, is confirmed in other ways, and goes over the Wye at Belmont House.

Bitterley Cross is of 14th century date; it must be the successor of a sighting stone which in some way pointed the direction of the ley, and it suggests that sighting along a ley had not-quite died out by the 14th century.

These two proved instances of sighting stones, together with the cases of stone rows on Dartmoor, and sighting columns on Sutton Walls, will give the clue to the hitherto unknown purpose of many important ancient stone monuments.

It is probable that the flat face of a mark stone, as in Wergin's Stone (Plate X.), pointed out a ley. There is a Dial Post near Tewkesbury which, with the Dial Carreg near Cwm-yoy, seems to denote the above purpose, and the last stone is an upright shaft of rectilinear shape like the supposed cross at Capel-y-fin (Plate X.).

TREES

I find that practically all the named historic trees (including Gospel Oaks) stand on leys. Such as King's Acre Elm, Eastwood Oak, Great Oak at Eardisley, Oak near Moreton-on-Lugg Bridge, etc. Place names (which in my previous articles on Crosses I too hastily held to signify the site of a cross) also indicate trees as marks. Such are Lyde Cross Tree, Cross of the Tree at Deerfold, Cross Oak, Cross Ash, Cross Colloe (hazel tree cross), and two leys cross at these points. Actual trees are shown at the cross roads in two of the above in Taylor's fine county map of 1757.

The Oak in the horse-shoe meadow at Ross is on the ley passing over Over Ross (the place name indicates it) and Wilton Castle. The steep little street coming down to the river from the Swan Hotel is dead on this ley.

Where a natural hill came under a ley it was often made a sighting point by the planting of a single tree, hence the numerous "one tree" hills, as at Backbury and on the Holmer Golf Links. All places called "The Grove" seem to be on a ley, and a small group of trees (as at Ladylift) was also used to mark a sighting point. Existing trees are probably successors of original ones. I see evidence that at one time such trees were called the "stock." The site of the wayside cross at Winforton is known as the Stocks, and a marking tump in the lane for Bowley Town (or Court) has an ash on it, and is called by the same name, as are farms at Wellington, Almeley Woonton, etc. The highest point (a hill near the Three Elms on the "Roman" road from Kenchester to Lugg Bridge) is marked on the map as Bobblestock Hill. I have known it as Bubblestock, but have no doubt it was Baublestock, the tree or stock (we still buy apple stocks in the market) where men who peddled necklaces and other baubles met the buyers. To-day, if you ask in a shop whether they keep such goods, you will, perhaps, be told that they have a good stock of them.

I think that the pole (Layster's Pole, Yarpole, Lyepole, etc.) was a form of sighting point, lingering on to recent times as the May pole.

Every considerable avenue of trees (as in parks of country seats) which I have tested has a ley down its centre.

Monnington Walks, a Scotch Fir avenue a mile long (Plate XIII.), is sighted through Monnington Church and the Sear Rock, Brobury, which last can be seen central in the picture. I found the ancient track still on the ley at the Scar, and alongside appeared to be an enclosed camp with defences of a mild type, such as seem to be alongside many other sighting points, as Longtown and Bridge Sollars Churches. Other avenues on leys are at Trewyn (two), where the house, central with the Scotch Fir avenue, has been proved to be on a burial mound, at Llanvihangel Court, where tradition also asserts the house (central again) to be on a burial mound; at Oakley Park,



PLATE VII. CAUSEWAYS.
1. Over Olchon Brook, Longtown.
2. To Centre of Pond, Ingestow, Ross.



PLATE VIII. LEYS DISPLAYED

- 1. Track Climbing Ridge, Llanthony Abbey.**
- 2. Straight Wye-side Causeway, Bartonsham, Hereford**

Ludlow (The Duchess Walk); and at Longworth. A feature in most of these avenues is that, as far as present roads or tracks go, they "lead to nowhere," and the discovery of the ley solves this puzzle. A striking instance can be seen from the Castle Mound at New Radnor, from which Harpton Court and Old Radnor Church are in line, and the eye looks up the centre of an avenue of trees climbing to the church. That beautiful avenue (half its beauty gone since two recent gales) with the ancient name Green Crise, which lines a public road out of Hereford, is on a ley which comes down the County College Road, over Putson Ford, and passes through Aconbury Church.

One sure sign of a ley is a long straight strip of wood marked on the map, as from Franchise-stone to Litley, and towards Breinton Church.

The word "park" had a meaning different to its present usage, but was probably connected with woodland, and certainly with leys, which pass through each of the innumerable Park Woods and Park Farms.

The Scotch Fir or Pine is the tree which seems most characteristic of a ley, for a group of them are almost always (I notice) signs of a sighting point, as at Constable's Firs, Hampstead Heath. At the present time it is impracticable to sight from point to point (especially on water points) on account of intervening trees. It is certain that for many centuries the sighting points were used, and that trees did not then intervene. This throws a doubt on the usual glib statement that ancient Britain was one dense forest. Perhaps the increase of trees was a cause of the decay of the system.

CAMPS

I find that every camp seems to have several leys over it, and that these usually come over the earthworks, not the camp centre, as with moats. Also that camps almost always show signs of part of their earthworks being tumps. At Sutton Walls are four unmistakable tumps, in one of which an interment was found, and in another [paragraph continues] (Plate XIV.) the Club at its visit saw the bases of two masonry columns of Roman construction, the use of which seemed a mystery. I feel certain they were columns built by Roman surveyors for exact sighting.

Standing on the highest part of Dinedor Camp earthworks, the towers of Hereford Cathedral and All Saints' Church can be seen exactly in a line to the stand point.

The camp plans in past Transactions show signs of tumps in most camps. It is impossible to assume that leys (sighted between two mountains) should in the scores of instances exactly fall upon the earthworks of camps previously built on sites selected solely for defence. The leys came first, and the present camp was then merely the site of two or more tumps. There came a period of organised raids and war, and where a group of tumps gave the first elements of defensive works, they were joined by earthworks into a complete enclosure for defence. Here again sighting settled the sites of camps. Hereford Castle Green with Hogg's Mount the only remaining sighting tump, others (as at the Russian gun) being now levelled, is an example. Many groups of tumps, never developed into camps but sufficiently near to be so, are to be found on the map.

I found Caplar Camp to have so many leys over it as to seem the Clapham Junction of ancient trackways in that district. It may be that in a few cases of lofty camps (as Croft Ambury and Herefordshire Beacon) they form terminals of sighting lines, but in almost all cases the leys pass over them.

CHURCHES

These--if ancient--seem to be invariably on (not merely alongside) a ley, and in many cases are at the crossing of two leys, thus appropriating the sighting point to a new use. A ley often passes through a tump adjacent to the church, and a cross ley through both church and tump. In other

cases a mark stone site became the churchyard cross, and a cross ley comes through both church and cross. In many cases one of the leys went through the tower only, and it is possible that tower and steeple were built to be used as sighting points, although on the other hand a large church did in fact block the road. I will make no surmises on these interesting points. The sighting system may have been in decay or the tracks abandoned when the churches were first built on the sighting points. I do not think it probable that leys were made to provide sites for churches. In almost every old town or village will be found examples of a church built on and blocking an ancient road although new roads (as at Weobley) are often made on one or both sides. I show examples of a number. Broad Street blocked by All Saints, Offa Street (a striking example) with St. Peter's Tower dead on one end, and the Cathedral Tower dead on the other end. Other examples: Ledbury, Wigmore, Shrewsbury (Fish Street), Kington, and Madley, where tower, churchyard cross and village cross are on one ley, and tower, nave, chancel, and a mark stone in the village on a lengthwise ley.

At Warwick a chapel is over a town gateway, and in Exeter an ancient lane is also allowed to continue as a tunnel under the altar of a small church, two curious instances of the right of way being continued and the desire of the clergy to use the site also attained. Kenderchurch is a striking instance of a church perched on the apex of a sighting mound, and in other districts I can think of Bren Tor (Dartmoor), Harrow, Churchdown (Gloucester), and the two St. Michael's Mounts, these last obviously terminals of leys, as is St. Tecla's Chapel out in the channel below Chepstow, the termination of the beach ley which gives its name to Beachley Village.

In London St. Paul's blocks the Watling Street and Ludgate Hill leys, and St. Clement Danes, St. Mary le Strand, and St. Martin's in the Fields are all on another ley with subsidiary roads evolved on each side of the churches.

CASTLES

Every castle in this district has a ley passing over it, and originated in a sighting tump, upon which the keep was afterwards built when some lord selected this as a desirable site for a defensive home. If a large tump, there were usually some excavations which were developed and extended into real defensive works.

The word castle is applied to many tumps (as in Moccas Park), where no building has ever existed, and to farms (as Castle Farm, Madley), where there are signs of a tump, but merely a homestead round it.

Where the word castle is part of a genuine place name, there was a sighting mound.

TRADERS' ROADS.

Salt was an early necessity, and "Doomsday Book" records Herefordshire Manors owning salt pans at "Wick," namely Droitwich. The salt ley for Hereford came from Droitwich through the White House, Suckley, Whitwick Manor, Whitestone, Withington (site of present chapel), White House, Tupsley, Hogg's Mount, Hereford, and on to its terminal on Mynydd Ferddin Hill through Whitfield mansion. Another salt ley passes through Henwick and Rushwick (Worcester), over the Storrige pass through Whitman's Wood, and ultimately gets to White Castle (Mon.), passing over the White Rocks at Garway. Similar leys pass through such places as Saltmarshe Castle, Whitewell House, the two White Crosses, Whitcliffe, Whiteway Head, the Wych pass over the Malverns. It is plain what the "white" man carried.

A knowledge of the ancient pottery in the Kiln Ground Wood at Whitney enables me to show the meaning of the numerous red banks, barns, and houses. A ley through this pottery is sighted on Newchurch Hill and passes through Redborough, Red Lay (a cottage on main road this side of Letton); the ley is then dead on two miles of the present high road as far as the Portway, and



PLATE IX. MARK-STONES.
1. Red Lion, Madley.
2. Credenhill.
3. Wye Street, Hereford.
4. Bartonsham (see Plate VIII.)



PLATE X. TRANSITION OF MARK-STONE TO CROSS.

1. Pedlars Cross, Llanigon.

2. Wergins Stone.

3. Churchyard Cross, Vowchurch (Inset, Hole in Shaft, Bitterley).

4. Churchyard Cross, Capel-y-Fin.

passing through the Home Farm, Gamons (where the ancient road exists), it ultimately reaches the little Red House, the old Tannery House at The Friars, Hereford; the ley goes on through Woolhope Church, but the small local potter had come to his limit and the reds cease on this road. Another ley from this pottery runs through the Red Gates and Eardisley Park.

What the "black" man carried is indicated by the name still given to the smith who works in iron. Whoever carried to or from the local forges, whether it was ore, charcoal, or iron, would be black. The earliest trade (before metals were worked) must have been in flints, and as a man who wanted such would not have gone across Gloucestershire to the nearest chalk districts to fetch them, the flint chippers, or knappers, would come on the road to sell them. The sighting tumps called the Knaps are common, and if I wanted to search for flint flakes, I should go to the base of the Knaps, their earliest market. Tin Hill, Tinker's Hill, and Tinker's Cross have a similar meaning.

HEREFORD TRACKWAYS

More than a score come through Hereford. There are sighting tumps at Hogg's Mount (Castle Green), Mouse Castle (also marked as Scots Hole), Gallows Tump (Belmont Road), Holmer Golf Links, Holmer Lane (top of old brick field), and an important one, Merryhill (in Haywood Forest), now marked as Beachwood. There also have been (now demolished) sighting tumps or points at Castle Hill, Palace Courtyard, Overbury (Aylestone Hill), The Knoll, Tupsley. And remains of one for the Castle ferry is on the line of earthwork bounding the Bishop's Meadow.

A riverside track sighted over Hogg's Mount and Holmer Lane Tump is illustrated in Plate VIII. I have found trackways through the sites of each of the ancient churches. St. John's Street extended passes exactly through the chancel of the chapel of the Knights of St. John of Jerusalem at Widemarsh. Barrol Street through the site of St. Guthlac's. In evening light a trackway can be seen from the Castle Green terrace, running through the large elm stump in the Bishop's Meadow to certain railings on the river bank, it runs by Vaga House, Quay Street, site of Blackfriars Church, northwards to Brimfield Church, and southwards through a moat this side of the rectory at Upper Bullingham. Other straight trackways are visible through an orchard behind Kilburn (Aylestone Hill), on this year's show-ground near the Three Elms, through Litley orchard, and descending the meadow on the north slope of Aylestone Hill to pass by the Burcott Pool, and on to Tenbury.

TRADITIONAL WELLS

The ley brings to mind or discovers many of these, for a straight track went to or past all of them. There are Holy Wells at Dinedor, between Blakemere and Preston, and under Herrock Hill. As children, living close by, we used to call the Coldwell at Holmer the Holywell, and found our way by stepping stones to the ancient stone built well now destroyed. It was much like the Chamber well near the mill at Weobley. The Golden Well near Dorstone is on a ley running through Arthur's Stone, the Gold Post (a mountain cot), and terminating in Pen-y-Beacon. The two "golds" on one track indicate a trader's way. Leys go straight to, and not beyond, many wells in the Malvern ridge--St. Ann's, Holy Well, Walms (there is a Walmer Street named from a ley in Hereford and a surname Walmsley), St. Pewtress, and one (whose name I do not find) near the Chase Inn, above Colwall, which village itself is the Cole's--or magic man's--well.

I have photographed in Cornwall the pointed "beehive" stone structure covering a Holywell, surmounted by a cross; the whole obviously suited for a sighting point. Here and there, as at the Flintshire Holywell, a chapel has been built over the well. Our local example is at Marden, where the well, in the west end of the church, central with the nave (and the ley), is connected with the tradition of St. Ethelbert.

There is an ancient well in Goodrich Churchyard, with a track way obviously passing over it, but not through the church.

PREVIOUS DATA

A number of observers have recorded confirmatory facts.

Mr. G. H. Piper ("Woolhope Club Transactions, 1882," p. 176) says: "A line drawn from the Skerrid-fawr (mountain) northwards to Arthur's Stone would pass over the camp and the southernmost point of the Hatterill Hill, Old Castle, Longtown Castle, and Urishay and Snodhill Castles."

Mr. Thos. Codrington ("Roman Roads in Britain," 1903) says: "Between the extreme points there are many straight pieces not quite in the same line, generally pointing to some landmark. There are several instances where a barrow or tumulus was the landmark, the road passing round it on nearing it. Silbury affords one example, and Brinklow, on the Foss, another."

Mr. James G. Wood ("Woolhope Club Transactions, 1910," p. 146) says: "The origin and purposes of these tumps associated with Roman roads will well repay investigation. I have traced a line of such works across South Monmouthshire and West Gloucestershire from Caerleon through Caerwent into the Forest. All of these are so placed that each is in sight of the next in either direction. Again, we find that such roads were in many cases ranged or laid out in line with small camps or such tumuli-being, in fact, surveying stations."

The Rev. S. Baring-Gould ("Book of Dartmoor," 1900) says: "The stone row is almost invariably associated with cairns and kistvaens. They do not always run parallel; they start from a cairn and end with a blocking stone set across the line."

The Rev. S. Bentley ("History of Bosbury," 1891) says: "Under the cross in the churchyard, at its removal to its present site in 1796, a huge shapeless mass of rock weighing upwards of two tons was found. This stone now lies in the churchyard close to the tower on the south side." Another writer refers to it as "this large unhewn mass of Silurian rock."

Mr. Hillaire Belloc ("The Old Road," 1904), writing of the Pilgrim's Way, says: "Now on its way from Winchester to Canterbury the Old Road passes, not in the mere proximity of, but right up against, thirteen ruined or existing churches."

Mr. Belloc also says: "The sacredness of wells is commingled all through Christendom with that of altars"; and giving Continental instances, also refers to the one under the altar at Winchester.

ROMAN ROADS

The exact relation of Roman roads to the earlier leys is a matter for future investigation, but our co-member Mr. Jack is on the right lines when investigating the surface construction to find whether a road can be called Roman. It is not easy to realise that many British roads were as ancient to the Roman invaders as the Roman remains are to us.

My general impressions from observed facts are that the Roman surveyors used the sighting system; that they utilized the old trackways, imposing greater width and their far superior road surface and foundations; also that working during the degeneration of the ley system, they did not appreciate the long distance primary points, but working on short distance hills and points their roads are not so consistent and individual. I find evidence that they established their stations on the original leys, and that these were then so numerous as to form the boundaries of stations or towns, and thus decide their polygonal shape. It is also probable that a great many Roman roads of which portions remain were never completed, although the sighting points of the original ley continue on the line.

The road from Aymestry to Mortimer's Cross comes down to the Wye in the cutting at Bridge Sollars.

The "Roman" straight road from Leintwardine through Paytoe and Wigmore Moor (the subject of recent digging) continues as a ley through Lucton and Kingsland Churches.

I consider the existing maps of Roman roads to have little value as being based on the assumption that there were no straight sighted roads before the Romans came, and that (quite illogically) such a road could go round corners, and had to follow the tracks over which some old writer had travelled. I find the so-called straight Roman roads, as from Kenchester to Lugg Bridge, to be really on several slightly diverging leys, three in this case.

PLACE NAMES

The ley and its sighting points were earlier than homesteads, hamlets, or towns, and as the latter evolved on the tracks, place names naturally bear traces of their origin.

It is no reflection on philologists that, not knowing of the ley, they have made misinterpretations, and have a huge mass of corrections to make. In particular they will find a past neglect in translating place names in the light of traders coming along the road and meeting the buyers at settled points. The man who brought the long-coveted gold ornaments might only come once a year, but to the women of the community the Gold Hill, Gold Post, or Golden Cross (roads), where they met him, or the Golden Valley, along which he came, would be likely to take their names from his wares. There are two of each of the above Gold place names in the county.

The notes which follow must be taken rather as suggestions than as final conclusions.

The common suffix--ley--indicates a ley of the character denoted by the first element in the name, and "meadow" is not, I think, the right interpretation. The numerous Leys Hills are not likely to be so called from meadows.

The suffix--ton originated by a mark stone on the ley becoming the nucleus of a homestead, and perhaps later a town.

The suffix--bury clearly indicates a mound which was a sighting tump. It is a strange development that these tumps were coveted both as places to be buried in and to live on. Mrs. Gillespie (who lived at Trewyn, Pandy, for 17 years) writes me: "I suppose you know that Trewyn was built on a burial mound," and goes on to describe the discovery of a cist with human remains which they dug up under one of the rooms. I had told her how Trewyn was on two leys (therefore on a sighting point), one being down the avenue of ancient pine trees straight for Alt-y-Ynis.

Barrow (another mound name) occurs at Cradley, Pembridge, and Wheelbarrow Castle, Leominster; Canon Bannister shows that Coldborough was formerly Colbarwe, and he also associates borough and bury as from the same root. A variation is berrow as in Broomsberrow. Just as the sighting stone--ton became the site of our modern town, so the mound evolved into the borough.

Low--the universal name for the mound in Derbyshire--is not so common here. But Wormlow Tump, Ludlow, Warslow, and Bradlow indicate sighting points.

Bury is used alone as the name for a tump, as in the many Bury Farms, or as at Ivington Bury. A farmer still calls the earth covered tump in which he winters his roots a bury. Towns like Ledbury first grew round a sighting mound.



PLATE XI.
CHURCHYARD CROSS.
Bitterley



PLATE XII. TREE.
Eastwood Oak,
Tarrington.

"Broom" occurs with great persistence on leys, with its variations brom and bram. Bromley and Bramley, Bromton and Bramton, Bromfield (where is the Old Field with a number of tumuli), Broomsgreen, Broomsberrow, and the many Broomy Hills are examples. It is not confined to one form of sighting point, and I surmise (from a faint line of evidence) that a component part of our modern broom was an essential working implement of the skilled ley man, and was continued as the staff of the mediaeval pilgrim. Whether the plant broom was the original root word or a derivative I cannot say.

Lady Lift (a hill-point mound) is on a ley with Lady Harbour Farm, and the prefix Lady is applied to court, grove, ridge, oak, and meadow in the county. The Lady Harbour of Hereford Cathedral is on one of the leys which form Church Street, and had the name before any church was built there. It might possibly indicate a woman's shelter on the road.

The suffix--tree, probably originated in a single tree planted as a sighting point, either as at "Cross of the Tree" in Deerfold Forest, or to mark the apex of a natural hill as illustrated in Plate XII. Webtree is on such a hill with two leys passing through it. Its name signifies that it is the spot where the webbe or weaver met his buyers. He travelled along the webbe-ley, and there are three Weobleys (formerly Webbeley) in the county, at Weobley Ash, and Weobley Cross, also the better known townlet. He also met others at a mark stone now known as Webton. The surnames Webb, Webber, and Webster still survive.

In the same way another first word element gave the place names (and surnames from them) of Bosley (Cattle-ley), Boston, Bosbury, Boswell, Bostock, and Boscastle. Again, Stanley, Stanwell, Stanton, Stanbury, and Stanbatch. And I have shown how the white (salt) man gave the first element to innumerable place names on his route. There is a Silver Tump and a Brass Knoll in the Olchon Valley, both proved sighting tumps.

The names Bowley, Bowling Green (farm, also a quarry Dear Ewias Harold), Bolitree, Bolstone, Bollingham, Bal Mawr, Balls Cross, Ballgate, Bellgate, Bellimore, and Belmont, all seem akin to the rounded outline of an inverted bowl, or to boils, bowels, and belly of animal life, and indicate the rounded tump.

The house at Bolitree is built on a tump with signs of a moat, and as I found a ley through Bollingham (house and chapel) I went there to find the bol, and there it was, a fine tump with an old summerhouse on its summit.

Gate in a place name (as in Hill Gate, Three Gates, Ballgate, England's Gate, Burley Gate, etc.) did not mean, as now, something which stopped a way (that was called a lid-yatt), but the way itself. It is much the same as the word pass. The same element (modified) is in such names as Gatley, Gatsford, Yatton, Symonds Yat, Woodyatt's Cross.

Lee Line and Timberline Wood are place names clearly describing leys. There is a Linton and a Linley at Stanford Bishop--the mark stone and the ley. I think that Lyonshall, Lynhales, Lion Farm, and Hobby Lyons are variations.

Such names as Winslow, Preston Wynne, Winsley, and Winyard (Radnor Forest) indicate the road by which wine was brought. Totnor, Totteridge, Tothill, and Twt indicate (as Mr. J. G. Wood has pointed out) tumps, and they are all sighting tumps on leys. Mr. Wood (who has come very near discovering the ley) also--in Woolhope Transactions for 1919--connects Titterstone, Clee Hill (Plate I.) with the word Tot or Toot. Tooting and Tottenham are London forms of the word. Rosemary Topping (English Bicknor) is a much prettier name for a sighting tump.

Bur or Burl seems to be descriptive of some form of sighting point. Leys pass through Burley, Burlton, Burton (many of this name), Burford, and The Burcot; and there is a Burl Hill in Radnorshire.

Although a ley ran from peak to peak there must have been an earlier termination to its useful part, or a still more restricted part used by traders. Hence--in London--Finsbury; Capel-y-fin in the Black Mountains; and Fine Street, near Letton, have probably the same meaning, which, however, seems to be locally more often expressed by the word end, as in New End (Canon Pyon), Red Wych End (Cowarne), Nupend, etc.

As regards the place name element "broad" (also brad and bred), a ley passes through Broad Green (Orleton), The Broad, north of Leominster, Broadward, south of Leominster (dead on the main road at each of these two), and on to Broadlands at Aylestone Hill, Hereford. It was the road, not the place, which was broad, constructed for wheel traffic, for which the previous pack-horse tracks were too narrow. Mr. Allan Bright, of Barton Court, Colwall, wrote me, pointing out that a ley from the Wych through his house to Ledbury Church, also ran through a meadow of his called Broadley Meadow. Such names as Bradley, Bradlow, Bradford, Broadmoor, Broad Oak, and Bredwardine are thus explained.

Probably most instances of the word elements, little and long, apply to the roads which pass through the places. Hereford is (no doubt correctly) said to mean "army road." Little Hereford is not a small edition of the town, but of the road. Litley is the small ley, Longley is the long ley, and so with the stone, grove, land, and ford (there have been two Longfords). Long in old spelling was often lange; and little, lutel or luttel--these from Canon Bannister's list. Hence come the (places and surnames) Langstone, Langford, Langland, Langton, Lutley, Luton. The two Leinthalls--Earles and Starks--are seldom called by these second names locally, but are Little Leinthall and Long Leinthall respectively, the element leint (occurring also in Leintwardine) being I surmise derived from ley. Little Leynthale, to quote an old spelling, would be the meadow traversed by the short ley.

DISCOVERY BY PLACE NAME

I have experienced this in several cases, and will detail one. A local antiquarian (Mr. W. Pitley) always maintained that there had been an ancient spring--the Bewell spring--close to Bewell House and the Hereford Brewery within the City. When I lived there with my father we knew nothing of it. But about a year ago the present owners in sinking a new deep well and building a new engine house, uncovered the following inscription cut in stone in the base of the brewery wall, but covered by a rockery in my time:--

Well, 71 FEET, 1724.

I had always felt that the derivation given for the place name Bewell Street as Behind-the-wall Street was an error.

There is a hill on the Canon Pyon road called Bewley or Bewdley Pitch. Solely on account of my surmise that the Bew-ley might lead to the Bew-well, I tried a line on the map and found a ley exactly falling on this "pitch" (or steep road) passing from the north through Bishops Moat (west of Bishops Castle), Meer Oak, Bucknell Church, Street Court, Stretford Churchyard, and Birley Churchyard, and exactly over the site of the well. Southwards over Palace Ford, Dinedor Camp, Caradock, Picts Cross, Hom Green Cross, Walford Church, Leys Hill, Speech House; there being numerous confirmations in fragments of road.

THE LEY-MEN

The fact of the ley, with its highly skilled technical methods, being established, it must also be a fact that such work required skilled men, carefully trained. Men of knowledge they would be, and therefore men of power over the common people. And now comes surmise. Did they make their craft a mystery to others as ages rolled by. Were they a learned and priestly class, not

admitted until completing a long training--as Cæsar describes the Druids. Or did they--as Diodorus and Strabo says of Druids--become also bards and soothsayers. Did they, as the ley decayed, degenerate into the witches of the middle ages. Folk-lore provides the witches with the power of riding through the air on a broomstick, the power of overlooking, that of the evil eye. They (in imagination) flew over the Broomy Hills and the Brom-leys. It may be that the ancient sighting methods were condemned as sorcery by the early Christian missionaries.

Were they the laity or lay-men of Beowulf?

In later days our first English poet was one Layamon, and in his time were men called Ley-cester, Leye, and Ley-land.

In the Oxford Dictionary is given the obsolete word cole as meaning in the 16th century a false magician, a juggler, and cole-prophet (or cold-prophet) with a similar meaning, and there is a cole-staff or cowl-staff also mentioned, which, although then meaning a carrying stick, was--I surmise--originally the working sighting staff of the cole-man, who was the magician of the ley. The word still survives in colporter, a walking seller of books, who carries his wares slung over his shoulder on a stick.

We have in our district Coldman's Hill, Coldstone Common, Coles Tump (Orcop), and Coles Mountain (Presteign). In other parts of England are Coley, Colbury, Colebatch, Colestock, Coleshill, Coleford, Coleham, Colchester, and Coleridge, which last has an alternate name Coldridge, confirming other instances of the intrusion of the d. I surmise Cold Harbour (Kentchurch) to have been Cole Harbour.

Colmanswell in Ireland possesses to-day a "sacred" well, and this name, together with our own ancient Colewelle in Herefordshire, now altered to Colwall, is probably nearer the original root meaning than is the case of the three Coldwells at Holmer, Kingston, and English Bicknor.

A Bishop's name Colman is mentioned in the Anglo-Saxon Chronicle, and Cole is also a common surname to-day.

There are other names for a ley-man indicated in the two Derbyshire place names, Totmans Low and Laidmans Low, the Low being a sighting mound.

HINTS TO LEY HUNTERS

Keep to the discovery of lines through undoubted sighting points, as artificial mounds (including castle keeps), moats and islands in ponds or lakes. In practice churches can be treated as sighting points, but in some cases a ley passes through a tump or well close to the church. Avoid for a time the temptation of taking every bit of narrow straight road and extending it into a ley. Scrap every ley you think you have discovered if it does not pass through at least four undoubted sighting points exclusive of roads.

You must use Government Ordnance maps. One mile to the inch is the working scale. Other maps of two or four miles to the inch are quite useless, save for checking long leys.

The (B) "Popular edition, mounted and folded in covers for the pocket," is the most convenient for field work and is the cheapest, as it contains over double the area of the older (C) 18 x 12 edition; but I have found the latter (uncoloured, in flat sheets) necessary for transferring leys from one map to the next on drawing boards in the office.

Maps cut in sections are useless for this exact work.



XIII. TREES.

- 1. A One-tree Hill, Llanvihangel-nant-Melan.**
- 2. Scotch-Fir (or Scots Pine) Avenue, Monnington
(See Plate VII.)**



PLATE XIV. CAMPS.

- 1. One of the Four Mounds, Sutton Walls.**
- 2. Herefordshire Beacon.**

About four drawing boards, a light 24-inch straight edge, a T square for pinning down the maps accurately to line with the boards, a moveable head T square to adjust to the angle of the ley, so as to transfer to the next map, and a box of the glass headed pins used by photographers (in addition to the usual drawing pins) are the minimum essentials for real work. A sighting compass for field work used in conjunction with a special divided quadrant on the moveable head of square are aids I have found valuable.

Remember that the entire course of a ley can be found from two undoubted sighting points on it if marked on the map. Therefore stick a glass headed pin in these two points, apply the straight edge, and rule the line, pencil it at first, ink afterwards.

When you get a "good ley" on the map, go over it in the field, and fragments and traces of the trackways will be found, always in straight lines, once seen recognised with greater ease in future. Where close detail is required, as in villages and towns, the 1" scale is far too small, and the 6" scale is necessary. The angle of the ley is transferred to it from the 1" map with the aid of the moveable head square. Maps must be pinned square on the board by the T square passing through identical degree marks on the edges, latitude for leys running E. and. W., but longitude for leys N. and S. The edges of the maps are not truly in line with the degree lines, and must not be the guide.

Ley hunting gives a new zest to field rambles, and the knowledge of the straight ley provides new eyes to an eager observer.

I have a mental vision of a Scout Master of the future, out ley hunting with the elder boys of his troupe, instructing them as they look out from a high sighting point. "Now, Harold! if you only take that pole out of your eye, you will see better to pick out that distant moat that Cyril has in his eye. He's got it, right enough, just a speck of light from the ring of water round the island. When I told you to use your pole as a sighting staff, I didn't tell you to see nothing else. Now we have found the ley, I think we shall see a bit of the old track in that far grassy field this side the moat; it's narrow and straight, and there are many who never find it because they look for a broad way like our present wheel tracks."

A FEW LEYS

(Additional to others detailed in text and maps)

Colva Hill to Birdlip Hill, via Parton Cross, Breinton Camp and Ford, Red Hill, Holme Lacy House, Caplar Camp, Yatton Church, Moat and Camp beyond Newent, and dead on "Ermin Street" for five miles.

Gwaun Ceste Hill to Brimpsfield Castle, via Michaelchurch, Eaton Camp, Perry Hill, Dinedor Cross, Tump, Brockhampton Old Church, Cross in Hand, Upton Court, The Conigree, Rudford Church, Gloucester Cathedral, Castle Hill, Witcombe Park, and Blacklains.

Gwaun Ceste Hill to West Tump, via Colva Church, Brilley Green, The Scar Rock (Brobury), down Monnington Walks (central), Monnington Church, The Chantry, Perrystone, Mullhampton, Anthony's Cross, Tibberton Court, Llanthony (Glos.) Abbey, and dead on a Gloucester street. Little Mountain (Westbrook) to St. Ann's Well and Priory Church, Malvern, via Arthur's Stone, Cross End, Moccas Church, Monnington Church, Credenhill (old) Court, Pipe and Lyde Church, and Beacon Hill.

Pen-y-Beacon to North Hill, Malvern, via Sugwas Park, Ten Houses Pond (Plate VI.), Burcot Pool, White Stone Chapel, Shucknell Hill, Stretton Grandison Church, Moat at Birchend, and Mathon Church.

Croft Ambury to Y-Fan-Drongarth (2,410 peak in Brecon Beacon group), via Hill Barn, Easthampton, Milton House, Court of Noke, Elsdon, Bollingham Chapel Tump, Clyro Church, Llowes Church, Bryn-Rhydd, and Slwch Camp, Brecon.

Bailey Hill (Knighton) to May Hill (Longhope), via The Warden, Presteign, Golf Course Tump, Holmer, Holmer House, Holmer Lane Tump, Venn's Lane, The Prospect and Tupsley Hospital Road, Main Street and Church, Fownhope, Caplar Camp, How Caple Church, Old Gore Cross, and Linton Church.

END WORD

I close up my patchwork pages for this booklet, and a tired brain finds relief in two memories. The one of the day, just on half a century ago, when, a lad on a trader's route for my father's brewery, I pulled up my horse to look with wonder at the Four Stones, standing like sentinels in a field corner. Later in the same day, the steep slope of the Radnor Forest surmounted, came the first view of Castle Tomen at the summit of the Forest road, with its background of Wye and Irfon Valley (Breconshire) Mountains. And the note of unsatisfied wonder struck that day has lingered through nearly fifty years' unusually intimate knowledge of our beautiful West Country border land, and I know now that my sub-conscious self had prepared the ground and worked at the problem I now see solved.

The second memory is the vivid one of the rush of revelations in the gorgeous year of sunshine just finished. And I can scarcely realize that half the year had gone, the clear smoke-free distances of early summer a thing of the past, and midsummer day over, before I got the first clue. Once started, I found no halt in the sequence of new facts revealed by active search on the tracks.

It is a mere framework for a new knowledge that I offer, but I know that it has solid foundations, and that good wholesome field work by others--for it may not be granted to me to do very much more--will fill in many gaps. That is why I write.

POSTSCRIPT

In some districts--as Salisbury Plain and the Yorkshire Wolds--there are groups of adjacent barrows so numerous that it is probable that most of them were built as burial mounds only, not sighting mounds. This is not the case in the district investigated.

ACKNOWLEDGMENTS

Six of the photographs are by Mr. W. M. McKaig, helper in many miles of ley-hunting

This page is King 8vo. in the Ideal series of paper sizes, wherein octavo and quarto have the same proportion, and three master sizes give a full series of uniform shape.

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**PLATE XV.
CHURCH.**

Ledbury, the Spire sighted up Church Lane



PLATE XVI. CASTLE.
Wigmore Castle, showing the sighting mound.

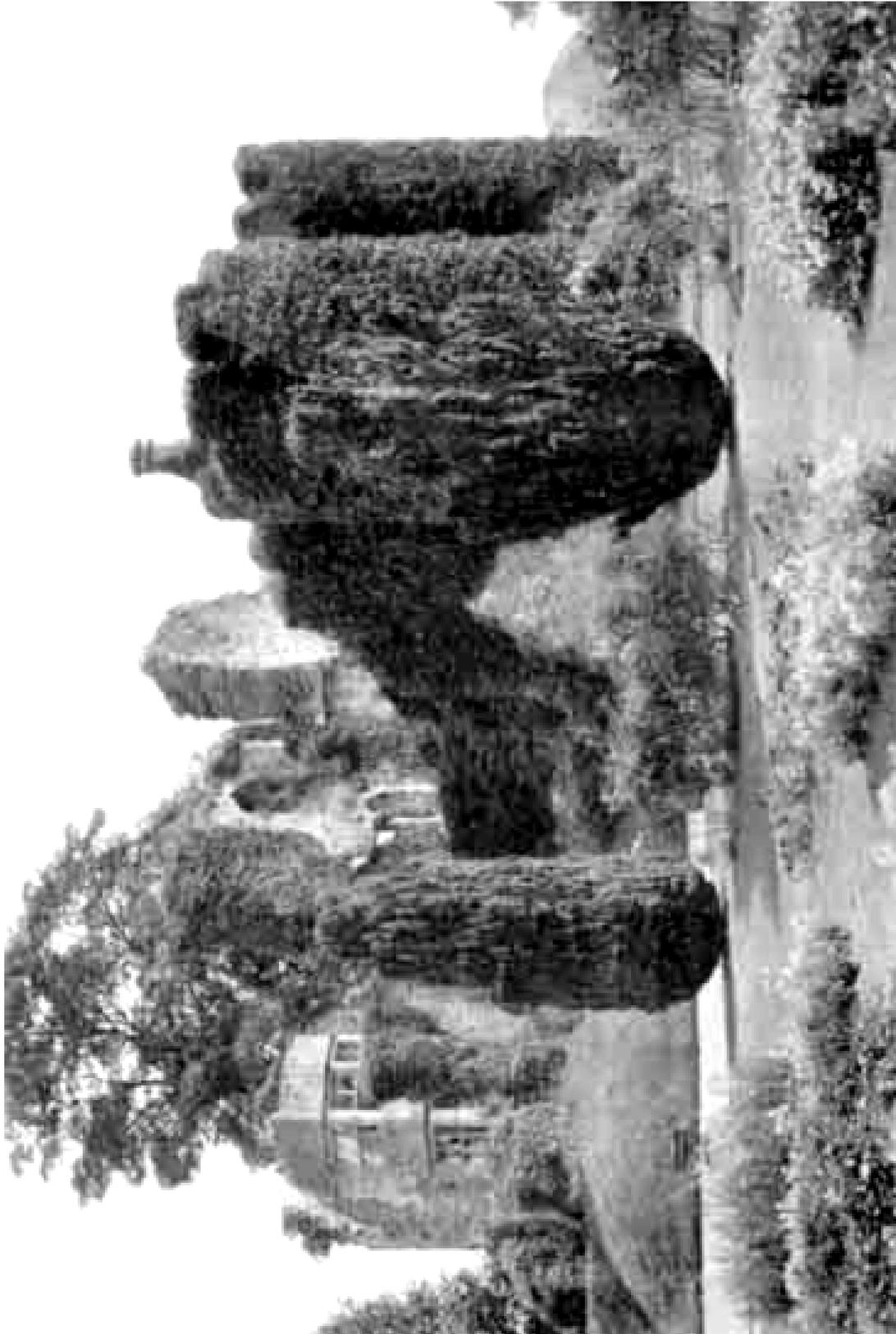


PLATE XVII
CASTLE
Brampton Bryan Castle with Coxall Knoll on right.



PLATE XVIII
HOUSE IN MOAT
Gillow.

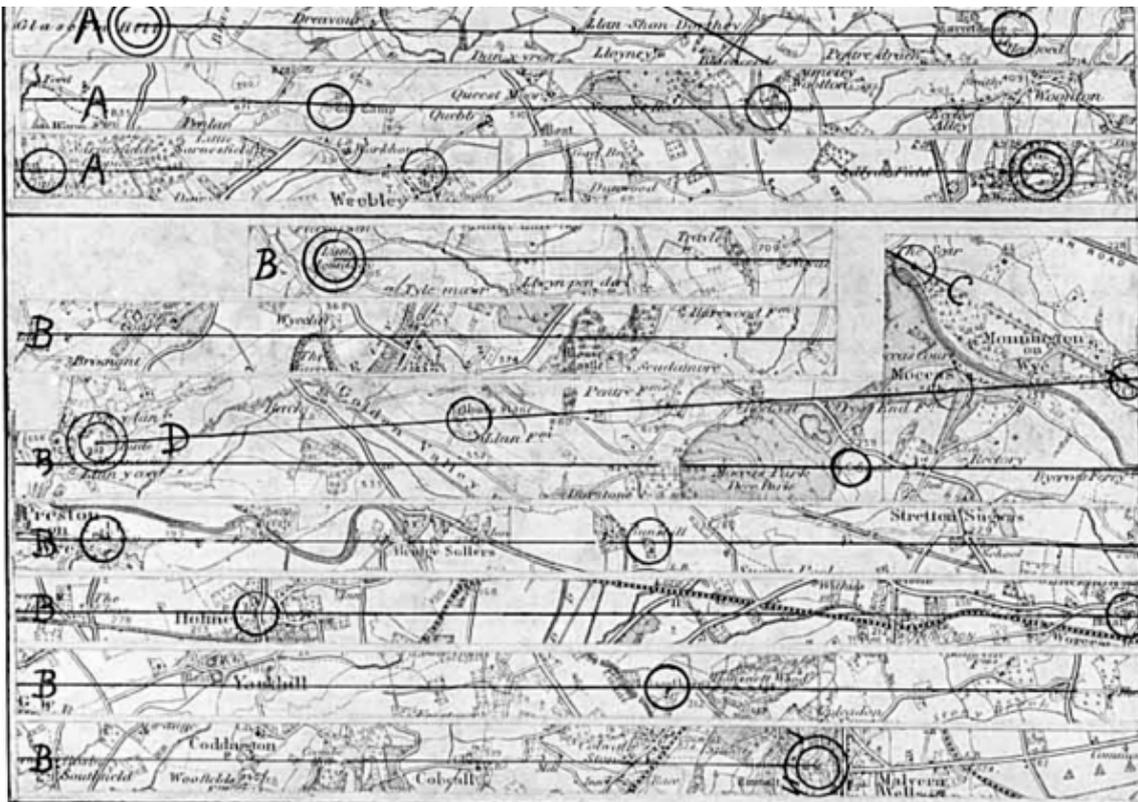


PLATE XIX. MAP OF TWO LEYS (A. & B.) AND PARTS OF C. & D. SEE CONTENTS TABLE
(Based on the Ordnance Survey with the sanction of the Controller of H.M. Stationery Office).

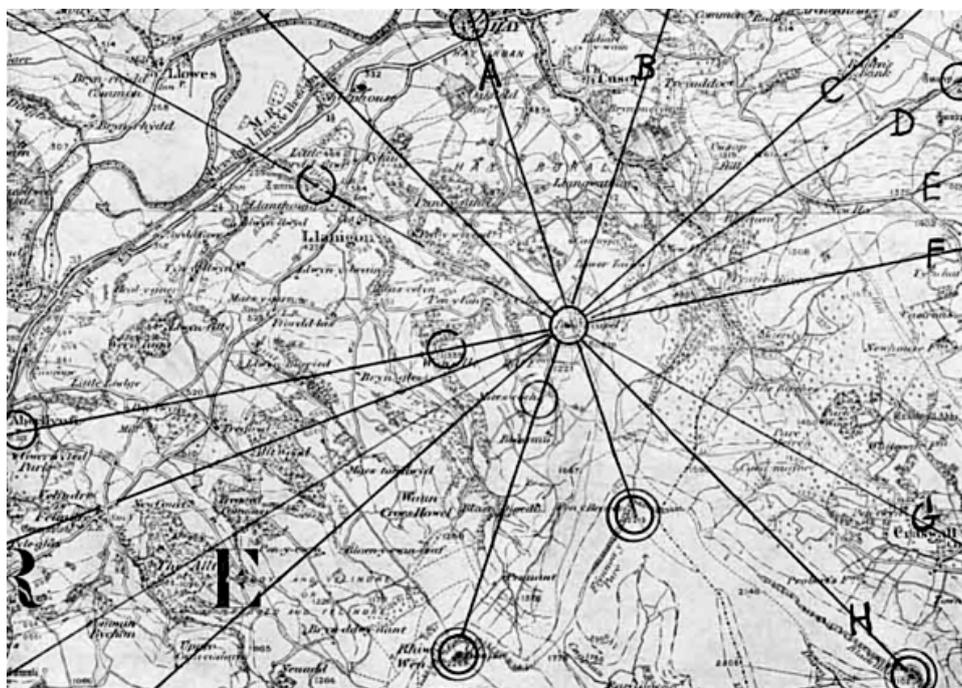


PLATE XX. MAP OF EIGHT LEYS THROUGH CAPEL-Y-TAIR-YWEN, HAY. SEE CONTENTS TABLE
(Based on the Ordnance Survey with the sanction of the Controller of H.M. Stationery Office).



THE AUTHOR



Alfred Watkins was born at the Imperial Hotel in Widemarsh Street on 27 January 1855. He was the third of the ten children of Charles and Ann Watkins. Charles was a typical Victorian entrepreneur who expanded from the Imperial Hotel to own the Bewell Street Hereford Brewery and The Friar Street Flour Mill. Alfred was educated at a private school situated in what is now the Framers' Club. He later told his son that he learnt 'absolutely nothing'.



He married Marion Mendham Cross in 1886 and they had two children, Allen and Marion. They continued to live in Hereford, first at Broomy Hill, then at Vineyard Croft in Hampton Park and finally at 5 Harley Court, close by the cathedral.

His daughter described him as 'a bit of a rough diamond to look at; broad-shouldered and bearded he wore (winter and summer) suits of Harris Tweed lined with grey flannel, containing fourteen pockets'.

Brewery and Flour Mill

As his father Charles took over various businesses in Hereford he added the tag 'Imperial' to them, ending up with an 'Imperial Empire' in Hereford to the extent that his daughters were known, behind his back as 'their Imperial Highnesses'. Alfred started work in the brewery, learning all aspects of the trade from the construction of wooden barrels to brewing and bottling. He then became an 'out-rider', travelling the lanes and by-ways of Herefordshire by horse and gig, taking orders for the brewery. After a while he transferred his interest to the flour mill where he was responsible for installing a dynamo giving the first electric light in Herefordshire. His interests in all aspects of milling and bread making was such that he obtained the premier silver medal in the City and Guilds examination in 1883 and also produced a flour which he considered to produce a brown loaf with an ideal spongy, honeycomb texture. This he called Vagos, as the flour was milled in the Wye valley, and the Roman name for the river was Vaga, meaning 'wandering maiden'.

The Imperial Brewery was sold in 1898 for £64,000 making Alfred totally independent. However, he continued to have an interest in the flour mills for the rest of his life.

Photography & the Bee Meter

Alfred Watkins lifelong interest in photography started in his late 'teens with little more than a pinhole camera, developing his wet glass-plate negatives in a small tent before they had a chance to dry. He soon appreciated that the basic problem in photography was the correct determination of exposure and development times. To resolve the former problem he designed a pocket



calculator and, determined to succeed, he set up a business to manufacture them adjacent to the flour mill. Success was certainly there — in the first year he sold 1,400 meters at a guinea each. A cheaper, popular version — the Bee meter (a name selected to suggest something small but highly efficient) — sold world-wide, especially after having been used by Ponting in 1910 when taking the unforgettable photographs of Scott's Antarctic expedition.

Watkins became a Fellow of the Royal Photographic Society in 1910 and was awarded the society's 11th Progress Medal for his research work. The following year he completed his all-embracing reference work *Photography; its Principles and Applications* — the 'bible' for amateur photographers for a couple of generations. In later life he experimented in colour photography and had a hand-turned cine camera.

His Photographic Record

Alfred Watkins spent over sixty years photographing events throughout Herefordshire and the neighbouring counties. First by horse and trap, then by one or other of his favourite steam cars and later by his Wolseley Stellite, he travelled to the most remote parts of the county taking photographs of items which caught his interest with his massive plate camera,. As a result he published his *Survey of Pigeon Houses in Herefordshire and in Gower* with line drawings made from his photographs in 1891, and *The Old Standing Crosses of Herefordshire*, full of his own photographs, in 1930.

He was perhaps more of an antiquarian than an archaeologist, but ensured that fine photographic records exist of many archaeological sites that have since been lost including sections of Hereford's City Walls, Craswall Priory, St Giles Chapel and many others.

The Woolhope Club

The Woolhope Naturalists' Field Club was formed in 1851; Alfred Watkins became a member on 24 May 1888, Queen Victoria's 69th birthday. From then on, he regularly attended the Club's meetings, in Hereford during the winter months and out and about in the County and further afield in the summer. For many years the Club Transactions were illustrated almost entirely by Watkins' photographs. Rare shots include buildings long since demolished, historic trees and diverse countryside activities.

Alfred Watkins was president of the Club in 1919, when he tried, unsuccessfully, to allow women to become members of the club. Ladies were not admitted as full members until after his death. After his presidential year his retiring address to the members was an illustrated talk on *The History of the Honey Bee*, another of his many and varied interests.

Public Service

In politics, Alfred Watkins was a traditional Liberal, against the intrusion of party politics in local elections and strongly in favour Free Trade and of Votes for Women. He became a County Magistrate in 1907 and served on the Bench for many years. In 1914 he became County Councillor for Tupsley and was eventually made a County Alderman. His efforts were responsible

for the riverside path below the old General Hospital and, as committee chairman, the design of the War Memorial in St. Peter's Square.

He was captain of the Hereford Rowing Club for many years and was a founder member of the Hereford Debating Society and of the Hereford Bee-Keepers Association. For the latter he helped provide a horse-drawn 'bee van' that trundled the country roads of Herefordshire providing examples of good management in bee keeping, illustrated as night descended, by slide shows.

Decimal currency was proposed as early as 1919, when Watkins, then supported by no less a figure than George Bernard Shaw, produced a booklet called Must We Trade in Tenths? This booklet, selling for 3d., proposed an octaval currency based on the old half-crown.

Ley Lines

It was in 1921 that Alfred Watkins read a paper to the Woolhope Club members on Early British Trackways, Moats, Mounds, Camps and Sites. In his talk he introduced members to a new concept — the old straight track; the ley line — prehistoric trading routes based on straight lines between a variety of sighting points. Of great significance, these original markers were subsequently re-used and their sites marked by later, but still historic features. This was a subject that was to occupy him for the rest of his life as he attempted to convince others of his theories. In rapid succession he published *The Ley Hunters Manual*, *Early British Trackways*, *Archaic Tracks around Cambridge*, and, still in print after some 78 years, *The Old Straight Track*. In 1926 he helped form *The Old Straight Track Club* which continued until the mid-1940's; its records are still preserved in the Hereford City Library along with all Watkins glass-plate negatives. His theories are still taken seriously by many and the *Ley Hunter* magazine is still regularly published.

End Piece

Alfred Watkins died at the age of 80 in April 1935. in his obituary in the Hereford Times the writes asked 'who in the city can be unfamiliar with that slightly bent figure: intense, abrupt, hurrying to some business or engaged in animated conversation, oblivious to anything save the object in hand?. He concluded that 'First and foremost he was a Herefordshire Man, as native to the county as the 'hop and the apple'.



**Volunteer fete at Vineyard Croft, Alfred Watkins, 1915 (c)
Herefordshire Libraries**

ADVERTISEMENTS

The following historical advertisements appeared on page 41 of the original book. They are included for completeness.--JBH.

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