to meet the eleceause it was the lieved, had ever great pleasure to n so many whom had always had om he hoped he years to come. ople were afraid but for his part that the new the old ones the good of the ley had certain that exists, and d out to remedy 1 of that great Id. (Laughter.) rty, Lord Hart-hat if they tried d, that tried to had been held e last state was

Ir Chamberlain

a reform. One was "Lower the rfectly fair cry. e, that if prices that rents could here were very ller holdings, or, n, peasant prowho wanted to he contrary he d land and were er. Mr Auldjo mall proprietor-s of land would of £55 per year.
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y off that £55,
nt for his land, y £10, and for ave to pay, the which they had y could see that much worse off ould see at pre-

day, and found e of beef killed that American here about two-Cheshire cheese. Applause.) He and meet the as a thing that ieved that the

prieters to help But there were a good deal could ard to local taxa matter, and that rates. He was

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-As there is a would Colonel ipport a bill to e for domestic rface damages rtainly like to r through the any one was the river, he le reason why

that certain ference to the Perth. to the

#### ST NINIANS.

School Board.—On Friday forenoon the usual monthly meeting of the School Board for the parish was held in the office of the Clerk (Mr J. L. Philp, Stirling)—Major Wilson presiding. There were was neid in the office of the Clerk (Mr J. L. Philp, Stirling)—Major Wilson presiding. There were also present—Messrs D. G. MacNaughton, M. Nimmo, and J. T. S. Paterson. The Board's Locans.—The Clerk intimated a letter from the accountant Nimno, and J. T. S. Paterson. The Board's Loans.—The Clerk intimated a letter from the accountant to the Board, requesting particulars of a loan of £1000 from Mrs Law, and to know what arrangements had been made by the Board for its repayment. He also submitted a statement showing the probable income and expenditure to Whitsunday next, giving a probable credit at that term of £550, and he was instructed to reply that the Board hoped to be able to pay off a portion of the loan at Whitsunday next. A letter was also read from the Secretary to the Public Works Loan Board, intimating that £30 would be due in repayment of loan and interest on 7th November, and that £140 would be due on 20th November next. Officer's Report.—The officer's monthly report was read, and showed the attendance to be good. The application of the teacher at East Plean for repairs to school window blinds, and for two new door handles was granted. Probable Expenditure for the Month.—The probable expenditure for the month was stated at £355, and the chairman and treasurer were authorised to sign a cheque for £360. Defaulters.—Mrs Somerville, a defaulter, appeared at the meeting, and on her undertaking to send her children to school regularly in future, she was dismissed. Another defaulter, Mrs Aitken, Roadside, Bannockburn, failed to appear, and she was ordered to be prosecuted.

#### DOUNE.

DOUNE.

DISTRIBUTION OF GAME.—The Earl of Moray arrived at Doune Lodge last Thursday, and on Friday and following days all the game which had been shot during the week was distributed amongst the farmers, feuars, and crofters of the barony, and the workmen on the estate. On this, as on former occasions, the poor of the neighbourhood were not forgotten. His lordship's visit has given great pleasure to the people of the district.

ESTATE IMPROVEMENT.—Mr Hugh Campbell, Doune, has been entrusted with the erection of a fence, above a mile and a half in length, for enclosing the farm lands of Netherton of Argaty, of which Mrs Hume is proprietrix. The structure will consist of 3 feet 6 inches of stone work, coped with stout iron standards for the support of two lines of strong wire fence. The iron gates at the entrances to fields are substantial, and are carefully balanced.

IRISH POLITICAL MEETING.—A political meeting of the Irishmen of this district was held in the Union Hall here on Tuesday evening, between eight and nine o'clock. The following gentlemen of the party were present among others:—Mr John Corbert, chairman; and Messrs Joseph Walsh, James Connelly, John Manion, William Jackson, Mike Scuffle, John M'Leod, Michael Joyce, Mike Madden, John Adam. The meeting was called to consider Mr Parnell's programme, which it was unanimously resolved to support.

### ARDOCH.

THE WEATHER.—The weather has been very good here of late, and very suitable for the storing of

turnips.

The Markets.—Cattle and sheep still command extremely low prices, and most unremunerative to

extremely low prices, and most unremunerative to graziers.

The School Board of Ardoch met on Friday last

—Mr David Ballingall, Blair Drummond, in the chair. The other members present were—Rev. G.

M'Naughton, Braco; Messrs John Finlayson, Harperstone; John Stirling, Netherton; and John Duncan, Topfold. The business before the meeting was the appointing of a teacher for the East Public School, Braco, and after an examination of the certificates of the candidates, who were very numerous, it was agreed by a majority of the Board to give the situation to Miss Jessie Walker, daughter of Sergt.

Walker, drill instructor to the Dunblane volunteers.

### KILLEARN.

Young Men's Gulld.—On Saturday, 7th inst., the members of the above association held their usual fortnightly meeting in the old Session-house—Mr Malcolm Sinclair, president, in the chair. The evening was devoted to songs and readings, which were very ably given by the following gentlemen:—Messrs James Houston, John Sinclair, Wm. Gil-

FALKIRK v. Lenzie.—At Brockville Park, and resulted in favour of Falkirk by five goals to one. The home team lost the toss, and had to play up hill. In the first half the game was pretty even, each side scoring one goal. Falkirk put on the pressure in the second half, and added other four goals to their score, while the Lenzie score stood unaltered. For the losers, Broadfoot in goal, Walker, and Tod played best, while the winners all round showed good form.

DUNFERMLINE v. KINGSEAT.—At Lady's Miil, Dunfermline, and ended in a win for the Dunfermline team by one goal to nothing.

DUNBLANE v. DRUMPELLIER.—At Coatbridge, before a large turn-out of spectafors, and resulted in a draw, each team scoring one goal. The Dunblane team scored another goal, but the referee decided no goal, as time had been previously called.

2D DUNBLANE v. 2D DRUMPELLIER.—At Dunblane. The home team won easily by eleven goals to one.

## Correspondence.

(To the Editor of the Stirling Journal and Advertiser.)

(To the Editor of the Stirling Journal and Advertiser.) SIR,—May I be permitted to draw your attention as well as that of your readers to an error which has crept into your report of the proceedings at the last meeting of the Stirling Burgh School Board. The Stirling Journal says—"The Chairman read a letter from Mr Neustadt, master of modern conguages, asking the board to allow him to spend the snm of £36 12s, (sic) for examination papers and other stationery," now, I would scarcely venture to ask the Board for such a large sum. All I want is £3 12s per annum for printing of examination papers, for which I have hitherto paid all expenses out of for which I have hitherto paid all expenses out of my own pocket.—I am, &c.

EUGEN NEUSTADT.

High School, Stirling, Nov. 11th 1885.

SIR WM. STIRLING MAXWELL AND SIR D. CURRIE—A CONTRAST.

SIR WM. STIRLING MAXWELL AND SIR D. CURRIE—A CONTRAST.

Sir,—As you are no doubt aware, we were honoured in this quarter on the 5th inst. with a visit from Sir Donald Currie, in prosecution of his canvass for reelection as a member of Parliament for the Western Division of the county of Perth. Mr Buchanan, younger of Leny, occupied the chair. After Sir Donald had finished his speech, which was largely interspersed with references to Colonel Moray and the Tories, for their shortcomings and general stupidity, which many present considered as in bad taste and too personal, questions were invited by the chairman, and a number were handed up, including one from the undersigned who asked the following question: "Will Sir Donald explain how he has attended so few divisions in Parliament during the last four sessions?" Sir Donald amid much laughter exhibited the bill circulated in the district (as he alleged) by the Tories, as to his attendances at divisions in the House of Commons, and said he was prepared for it, as he'was always asked this terrible question. He then, amid much laughter, repeated the answer he had given at Dunblane and Doune, and said that if Colonel Moray had been away at the two divisions when he voted against the Franchise Bills in 1878-1879 it would have been a good thing for Perthshire. Now what in the name of wonder has Colonel Moray had to divide the contrast. In the month of November, 1868, the late Sir William Stirling-Maxwell came through the county seeking re-election. The undersigned was staying at Killin at the time, and had never before seen Sir William. After the address, questions were invited, as in the present case, so the undersigned, and taking him by the hand, expressed the hope that his answers were satisfactory. "Perfectly," was the reply. Now, this was the mode that Sir William acted towards strangers who took the liberty of putting a question to him. He was uniformly a gentleman in manner. Sir William was renowned for his social culture and literary eminence, but Sir Donald a

Callander, 11th Nov., 1885.

## MR BOLTON AT BRIDGE OF ALLAN.

SIR,—I take the liberty of addressing you on the subject of Mr Bolton's meeting, which took place here on Saturday last. Mr Bolton came here as a candidate seeking the suffrages of the electors of a extent he will be successful, I am not inclined to predict. It is needless to state—and Mr Bolton well knows—that the church question is one which is engaging the earnest attention of the whole

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pheen in power, Anyway they ne session betthe session bette done and they of with Russia, pat importance to enatter worthy of that was the apanquire into the that the Tories wild be a serious no to the country and. When they mod. when they windnstry almost not osee whether in There was one read that was the the promise of en ssion resulted eny the existing without advane pefore them was !Ht of the Church. into power the ap before Parlia-establishment of

nity. (Cheers.) rded the gallant fillan, John Malcolm, John Houston, Wm. Houston, Alex. Munro, John M'Intyre, Wm. M'Donald, and Malcolm Sinclair. A most enjoyable evening was spent, and a hearty vote of thanks having been given, the meeting was brought to a close by the members singing "Auld Lang Syne."

## DENNY.

Breach of the Peace.—John Burnett, a slater, residing in Denny, was charged at the Stirling County Court—before Sheriff Buntine—with having on the 18th ult., committed a breach of the peace in Dunipace, by conducting himself in a noisy and disorderly manner. He pled guilty, and was fined 7s 6d, with the alternative of seven days' imprisonment.

#### KILSYTH.

BREACH OF THE PEACE.—Thomas Stark and Jas. Breach of the Peace.—Thomas Stark and Jas. Anderson, miners, residing at Kilsyth, were charged before Sheriff Buntine, at Stirling, on the 6th inst., with committing a breach of the peace in Main Street, Kilsyth. They pled Guilty, and were fined—Stark 10s, and Anderson 7s 6d, with the option of seven days in prison.

### CAMPSIE.

Assault.—John Houston, a confectioner, residing at Lennoxtown was charged at the Stirling County Court—before Sheriff Buntine—with assaulting Robert Crooks, a labourer, residing there, by striking him several blows on the face and kicking him on the ground. He pled guilty and was fined 10s, with the option of 7 days' imprisonment.

## TORRANCE OF CAMPSIE.

AN OBSTREPEROUS SQUAD.—Joseph Ferns and James Ferns, labourers, John M'Cormick, Hugh M'Cormick, Francis M'Cormick, John Devine, miners, and Mary Butler or Smith, all residing at Campsie, were charged yesterday in the Stirling County Court—before Sheriff Buntine—with committing a breach of the peace on the 25th ult., at Torrance of Campsie. They pled guilty, and were each fined 7s 6d, with the option of seven days' incarceration. carceration.

#### TWECHAR.

BREACH OF THE PEACE.—James Clark, a labourer, John Clark, a boatman, William M'Aulay, and Wm. Martin, both miners, residing at Twechar, near Kirkintilloch, were brought up at the Stirling County Court—before Sheriff Buntine—charged with a breach of the peace, committed in the Main Street, Kilsyth, on the 24th ult. They pled Guilty, and were fined 7s 6d each.

## Sporting News.

FOOTBALL.

FOOTBALL.

VALE OF BANNOCKBURN v. STIRLING OLYMPIC.—Played at Bannockburn. Olympic, 2 goals; Vale 1.

KIRKINTILLOCH ATHLETICS v. LIVINGSTONE.—On ground of Livingstone. Athletics won by four goals to none.

2ND KIRKINTILLOCH ATHLETICS v. 2ND LIVINGSTONE.—At Kirkintilloch. The Athletics won by three goals to none.

KILSTH RANGERS v. LENNOXTOWN THISTLE.—Played on ground of former, and resulted in favour of the Thistle by six goals to one.

2ND LINTHOUSE v. 2MD ALPHA (MOTHERWELL).—At Govan, on ground of former. Linthouse wen by three goals to uone.

Govan, on ground of former. Linthouse won by three goals to uone.

2D King's Park v. 2D Alloa Athletics.—Played at Gowanbank. The visitors in the first half had it all their own way, scoring seven goals without losing a point. On change of ends the Athletic scored other two, but one of them was disallowed. King's Park now scored their only goal, and the game was soon after stopped, leaving the Athletic victors by eight goals to one.

Vale of Forth (Alloa) v. Seaview (Falkirk).—Vale won by eleven goals to none.

CLYDE v. Campsie.—At Barrowfield Park, before about 500 spectators, and resulted in an easy win for the Clyde by nine goals to one. The Clyde tried two second-eleven players, Young and Twaddle, both showing fair form. M'Lachlan got his eye hurt, and had to retire about half-hour before time. Campsie were not fully represented, two of their best men being away assisting the Thistle at Dundee.

POLLOKSHAWS v. EAST STIRLINGSHIRE.—At Pollokshaws before a fair turn-out of spectators. The visitors kicked off with the ground in their favour, and pressed the home term for a little, but the Pollokshaws men breaking away the game became very fast, and it was not until nearly half-time that the strangers scored their first and only goal. The second half was, if anything, in favour of the home team, who were often at the strangers' goal, but; owing to the good defence, they were unable to score. Thus the fastest and, pleasantest game played at Broom Park this season ended in favour of the strangers by one goal to nething.

electorate, but Mr Bolton, in his speech, did not make the slightest reference to it, and, had he not been heckled on the question, it never would have been referred to at all. Mr Bolton was asked the question, whether or not, in the event of his reelection, he would support the resolution of which notice had been given by Dr Cameron, to the effect that disestablishment of the Church should take place forthwith, and a simple and unqualified answer was requested, but it was not given. Mr Bolton, because he had not seen the resolution (the nature and purpose of which was indicated in the question) declined to say how he would treat it. Various other questions were asked, another on Disestablishment, and one affecting the amendment of the Ground Game Act of 1880 (which did not receive the consideration it deserved from the chairment of the Ground Game Act of 1880 (which did not receive the consideration it deserved from the chairman), but they were either from indecision or intention—I assume the latter—shuffled in a similar manner. Mr Bolton explains his omission of any reference to Disestablishment by the fact that he dlscussed it fully, and expressed his opinion upon the question during his candidature of 1880. But has the efflux of time not brought a change, and a change of an important nature? Has the electorate not been increased by the recent Franchise Act, and has the efflux of time not brought a change, and a change of an important nature? Has the electorate not been increased by the recent Franchise Act, and did the new voters give the same attention to matters political in 1880—when they had no vote, as they do now—when they have one, and are about to exercise it? Surely these new voters, and as a matter of right the old ones also, are entitled to a fair and frank statement of the views of the candidate on this as on other, perhaps less important, questions. Since ever I have had the privilege of being a voter, I have accorded my support to the Liberal party, although the recent innovations which have been made upon the principles of what I consider Liberalism have to a certain extent shaken my confidence in the party. In view, however, of the position taken up by Mr Bolton on Saturday I have determined, so far as this election is concerned, to transfer my vote and influence to the other side. I went to the meeting in the expectation of getting a clear and decided statement of Mr Bolton's views and intentions; I was disappointed, and I left it

A DISGUSTED LIBERAL. Bridge of Allan, 10th Nov., 1885.

## Scotch Bankrupts.

ROBERT DUNN, farmer, Burdiehouse Mains, near Loan-

ROBERT DUNN, farmer, Burdienouse Mains, hear head, head.

JAMES YATES SIMPSON, sometime writer in Largs, presently residing at 11, Broomhill Avenue, Partick.

WM. ALEXANDER FRASER, engineer, 129, West Campbell Street, Glasgow.

JAMES M'GHEE, draper, Bonhill, Dumbartonshire.

LEWIS DUNBAR, pavement merchant, residing in Thurso, Cathness.

JAMES H. THOMSON, farmer, Gilchrist and Knocknaha, near Campbeltown.

## Births, Marriages, and Deaths.

BIRTHS.

At Barnhill, Dumbartonshire, on the 9th inst., the wife of ROBERT EMSALL FINDLAY, of Boturich, Dumbartonshire, of a daughter.

At 59, Hamilton Drive, Glasgow, on the 9th inst., the wife of the Rev. BUCHANAN BLAKE, B.D., late of Bombay, of a daughter.

At 3, Middle Craigs, Stirling, on the 10th inst., the wife of THOMAS OSWALD, compositor, of a son.

At the School-House, Ruskie, Port-of-Monteith, on the 8th inst., the wife of JAMES HOLM KENNEDY of a son.

## MARRIAGES.

MARRIAGES.

At Myrtle Park, on the 3d inst., by the Rev. J. C. Stewart, LL.D., of St Bernard's Parish Church, James Bell, steward, to Charlotte Brown Kerr, late of Aberfoyle.—New Zealand and Australian papers, please copy.

At St Columba's Episcopal Church, Edinburgh, on the 10th inst., by the Rev. Dr Dowden, assisted by the Rev. C. E. Bowden, WHLIAM SOMERSET CLARK SHAW, stockbroker, Edinburgh, eldest son of the late Rev. W. G. Shaw, St John's Episcopal Church, Forfar, to Hellen, eldest daughter of H. W. Cornillon, Solicitor Supreme Courts.

### DEATHS.

DEATHS.

At the Free Church Manse, Larbert, on the 8th inst., Maggie, youngest daughter of Rev. Finlay Macpherson. Friends will please accept of this intimation.

At Rumbling Bridge Hotel, on the 5th inst., Duncan Macara, in his seventy-eighth year.

At Morrison's Croft, Port of Monteith, on the 9th inst., JOHN STEWART ANDERSON, youngest son of James Anderson. Friends omitted will please accept this intimation. (American papers please copy).

At Douglas Hotel, Stirling, on the 8th inst., aged 17 years, Robert, eldest son of Robert Grindlay; deeply regretted.—Friends omitted, please accept this intimation.

# STIRLING NATURAL HISTORY AND ARCHÆOLOGICAL SOCIETY.

The following paper was read by Mr R. Kidston, F.G.S., at the November meeting of the above Society:—

NOTES ON FOSSIL SPORES FROM THE COAL MEASURES, WELLYBURN, NEAR DOLLAR, PERTHSHIRE

Spores subserve the same purpose to the Cryptogramic or Flowerless Plants that seeds do to the Phanerogamic or Flowerles Plants, hamely, the reproduction of the species. Seeds are of very complex structure of the species. Seeds are of very complex structure of the species. Seeds are of very complex structure of the species. Seeds are of very complex structure of the species. Seeds are of very complex structure of the species of the microscope. Many plants, as Ferns, Lycopoda, &c., develope their spores by free cell formation, in others, as in Alçe and Mosses, the spores result from a sexual process—hence the word spore in its fullest sense has a very wide application. The spores brought before you this evening are all Lycopodiaceous, and therefore developed by free cell formation, in the Lycopodiace are included several well marked genera and of these three are Entitish—Lycopodiaceous, and therefore developed by free cell formation, and the species are found in Scotland. In Lycopodiace in spores are of species of the species are found in Scotland. In Lycopodiace in spores are of me kind and are borne in sporangia situated at the base of the stem leaves or in terminal cones. In Selaginella, the stem leaves or in terminal cones. In Selaginella the spores are of two kinds—microspores and macrospores, generally very numerous, occupy sporangia, are usually situated in the lower part of its cone; the microspores, generally very numerous, occupy sporangia, are their upper surface, where the four spores press upon each other, a treadiate ridge, at which part the spore splits in germination for the protrusion of the young plant (called the protiallium) which arises from the spores. The development of Lycopodium is but imperfectly understood. In Edaginella the microspores (or large spores) the female (weckgonia), the fertilization of the latter producing a pl

from each other by the structure of the leaf-scar and the vascular impressions, but it is here unnecessary to enter more fully into these distinctions. (See Annels and Mag. Nat. Hist., vol. xvi., pp. 173-4, 1883.) As far back as 1840, 1976. Morris (Trans. Geol. Soc., Lond., 2 Ser., vol. v., Pl. xxxviii.), described a Lepidolendron cone in which the spores were seen; these were mamillate and similar to some shown this evening. Among the Sigillaorian spores are some with smooth existior, and some whose outer surface is also mamillate. These were first figured by Goldenberg in 1855 (Flora surepontana fossilis, Pls. B., fig 18-25; 1V. fig. 3; X. fig. 1-2), but more fully by Zeiller in 1854, as already mentioned. Several Generic names have been applied to fossil spores. In 1808 Sir John Wm. Dawson described two species in his Acadian Geology under the name of Sporangites, his two species being S. popillata and S. glabra. Professor Williamson has an experimental and degreed and described some very interesting formatics, 1873; part x., 1850; part xii, 1883; but with our present amount of knowledge of these reproductive bodies, a satisfactory classification is impossible, most of them probably being the spores of plants with which we are familiar in other conditions. Dr Renisch, in a valuable and interesting work on this subject, where he illustrates some hundreds of spores, proposes to include under the name of Tritetes all those which are provided with a triradiate ridge. This arrangement is altogether provisional, but for the sake of convenience is adopted here (see Reinsch. Micro-Paler-Phytologia Formationis Carbonifere, vols. i., it. Erlanger, 1884). From characters derived from the marking on the outer surface smooth. This is a common form, and is spores have a beginning and surface in which are provided with a triradiate ridge. The third and fourth varieties have very short pyramidal spines, and differ chiefly from each other in the size of the spores. In all these, the surface is overed with proper surface of t

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HIGGINS v.

Wm. Hi has raised a railway con for persona 5th Februa Gillespie, fe in a dog-car lorry belong the machin Gillespie we being jamm and the lampursuer all fenders' sen and submit buted to by A simila raised by A

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Counsel James Fors

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INTERESTIN

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Having made aviz to prove sufficient missing threpels all due the which de

examined by the microscope individually, at once gave fuller opportunity for their examination, resulting in the discovery of many different kinds and varieties of spores from the carboniferous formation alone. It may be interesting here to mention the circumstances that led to the discovery of a very simple means by which these minute fossils con easily be isolated for microscopical examination. This discovery is due to Mr James Bennie, one of the staff of the Geological Survey of Scotland. So far back as 1869, while washing some boulder clay from Abercorn clayfield, Portobello, with the object of ascertaining, if it was as rich in Foraminifera as the glacial clays of Paisley and Glasgow, he found in a layer of sand, lying between two beds of clay, about 14 feet below the present surface, a number of small spores; these he subsequently recognised as similar to spores that ferm a band in the splint coal worked at Whitehill Colliery, near Rosewell, Midlothian—the identification of the Portobello spores with those occurring in the coal at Whitehill was, however, only made in 1883, when Mr Bennie discovered that he could isolate the spores from their matrix and, like many other discoveries, it was foung out accidentally. Having heard from Mr Kirkby, Windygates, Fire, of there being great numbers of small organisms in the first two inches of shale above the "Encrinite Bed" at Pittenween, he visited that locality to collect some specimens of the shale, and as the coal on which the shale lay was much weathered, portions of it adhered to the shale. These specimens were thoroughly dried and subsequent steeping or boiling in water reduced them to a mud, which, when washed, left a fine sediment behind. While examining the residue thus obtained, it was discovered that it contained numerous spores in a fine state of preservation. This led to the collection of a number of samples of such material from different localities, which almost always were found to contain spores. It is perhaps best that I quote a paragraph from a l

spores. It is perhaps best that I quote a paragraph from a letter from Mr Bennie, which gives the general results of his investigations in this branch of fossil botany:

"Following up the clue thus by circumstances placed in my hands, I tried all the likely fireclays and coals exposed in the cutting of the New Edinburgh Suburban Railway, Niddrie, (Milistone Grit) and found spores in all of them in a lesser or greater degree. I next tried coals and shales of the same period on the opposite rife coals and shales of the same period on the opposite rife coals and shales of the calciferous Sandstones, below the Carboniferous Limestone Series and the richer coals and shales of the Calciferous Sandstones, below the Carboniferous Limestone Series and the richer coals and shales of the coal measures, and though not finding spores universally in all, yet in so many that I can say that almost all coals, shales and many plant beds have free spores embedded in them in such a way that they can be separated from the matrix by the simple methods of artificial weathering and washing."

The question that next'suggests itself to one's mind is:—What fossil plants were likely to produce these spores? Now, it is known that nearly all the Carboniferous Plants were Cryptogamic, probably the only exceptions being those large stems, some of which were so fully described by Witham many years ago, and which were referred to the Coniferoe, though more recent investigation has shown that some, if not all of these trees, may be more appropriately referred to the Cycadacece, a group of plants closely allied by many of its structural characters to the Coniferoe. Cryptogamic plants appear to have actioned their maximum degree of development during the Carboniferous period, and of these two Genera at least, Lepidodendron and Sigillaria, are now known to have produced spores very similar to those from Kelly Burn. The plants of both these genera attained to great dimensions, the Lepidodendra reaching the height of 100 feet, with a basal circumfere

which enter into its composition. Such spore bands are, however, very common and a good example is seen in the coal worked at Tuliygarth Pit, Clackmannan, yet, even limiting the distribution of spores to such bands, they must contribute a considerable quantity of valuable coal, but, notwithstanding the part they here play and even if some be distributed throughout the whole seam they protably form, proportionally, only a small quantity of the whole coal contained in the various British coal fields. The occurrence of spores in bands is quite accounted for by a not uncommon phenomenon in the neighbourhood of large pine forests, where, under certain conditions, when the pollen is ripe, it is shed in such quantities that the ground is completely covered with the yellow grains. Such falls of pollen have frequently been referred to under the name of "Sulphur Showers." It has often been remarked and even in a complaining tone, that of the quantity of seeds or spores produced, very few ever fulfil their mission by developing into plants, but one should remember that the reproduction of their kind is not the only end of their creation. In elucidation of this, I couid not do better than give an extract from the paper by Prof, Huxley "On the Formation of Coal":—

the paper by Prof, Huxley "On the Formation of Coal":—

"Finally, yet another curious consideration. Let us suppose that one of the stupid, salamander-like Labyrinthodonts, which pottered, with much belly and little leg, like Falstaff in his old age, among the coal forests, could have had thinking pewer enough in his small brain to reflect upon the showers of spores which kept on falling through years and centuries, while perhaps not one in ten million in littled its apparent purpose, and reproduced the organism which gave it birth, surely he might have been excused for moralizing upon the thoughtless and wanton extravagance which Nature displayed in her operations. But we have the advantage over our shovel-headed predecessor—or possibly ancestor—and can perceive that a certain vein of thrift runs through this appparent prodigality. Nature is never in a hurry, and seems to have had always before her eyes the adage, "Keep a thing long enough and you will find a use for it." She has kept her beds of coal many millons of years without being able to find much use for them; she has sent them down beneath the sea and the seabesists could make nothing of them; she has raised them up into dry land, and laid the black veins bare, and still, for ages and ages, there was no living thing on the face of the earth that could see any sort of value in them; and it was only the other day, so to speak, that she turned a new creature out of her workshop, who by degrees acquired sufficient wits to make a fire, and then to discover that the black rock would burn. I suppose that nineteen hundred years ago, when Julius Cæsur was good enough to deal with Britain as we have dealt with New Zealand, the primeval Britain, blue with cold and woad, may have known that the strange black stone of which he found lumps here and there in his wanderings, would burn, and so help to warm his body and cook his food. Saxon, Dane, and Norman swarmed into the land. The English people grew into a powerful nation, and nature still wated for a full return

It is but fifteen years since the paragraphs just quoted were penned, and is there not now a rival in the midst of us, electricity, which is eagerly contesting the claims of coal, both as a motive and illuminating

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