SCIENTIFIC.

ORIGIN AND FORMATION OF COAL.

It is generally supposed that the vast bodies of coal found in the bowels of the earth, are of vegetable origin. The following opinions and speculations of Professor Comstock, are in accordance with the views of most geologists, and will be read with interest.

These formations, known at the present day, under the name of coal fields, exist, probably, in most parts of the world where the climate renders large quantities of fuel necessary for the comfort of man; a signal interposition of the Creator for his benefit, and clearly proving that it has emanated from design, since coal has rarely, if ever, been discovered in any quantities in hot climates.

Among the early geologists, the origin of coal was for a long time a matter of dispute; but at the present day, it is universally admitted that all its varieties are of vegetable origin.

PROOFS OF THE ORIGIN OF COAL.—The experiments of Professor Goppert, of Breslau, on the transformation of vegetables into coal, and which were afterwards followed in England, appear to have left no doubt on this subject in the mind of any philosopher; though, perhaps, they only served to confirm opinions formed on less certain grounds.

This philosopher endeavoured to imitate the agency of nature in producing the results in question, and he did so with perfect success. Having observed that the leaf, (that of the fern) in iron-stone nodules, might occasionally be separated, in the form of a carbonaceous film, he placed such leaves in clay, dried them in the shade, and then exposing the clay to a red heat, he thus obtained striking resemblances to the fossil plants. According to the degree of heat, the plants were found to have become either brown, shining black, or to be entirely lost, the impression only remaining But, in the latter case, the surrounding clay was stained black, thus indicating that the color of the coal-shades is derived from the carbon of the plants which they include, or once included.

PROCESS OF NATURE IN THE FORMATION OF COAL.—It might be supposed, from the results of the above experiments, that the action of volcanic heat on vegetable was required to produce coal; this supposition is, however, by no means entertained—the application of artificial heat being the only means by which the long processes of nature, consisting of fermentation and pressure, could be imitated.

CHANGES PRODUCED ON HAY AND OTHER VEGETABLES.—If hay be stacked in a moist condition, and closely packed, it is well known that fermentation will be the result, especially during the hot season, and that the heat produced is sometimes so great as to produce spontaneous combustion, by which the mass is consumed. But if care be taken to confine the mass from contact of the air, and thus prevent ignition, the hay will be found to have assumed a dark brown color, a glazed or oily appearance, and a bituminous smell, resembling that of coal. The same result will be produced if flax, hemp, ferns, the twigs of trees, or other small vegetables, capable of being pressed into a close mass, be treated in the same manner.

This is considered an illustration, on a small scale, of what was once performed by natural means, to such a vast extent as to produce coal fields, by throwing into masses whole forests, instead of a few pounds of hay, and then subjecting such accumulations to the pressure, perhaps, of several hundred feet of incumbent earth.

STRUCTURE OF BITUMINOUS COAL.—Although the vegetable origin of all coal will not admit of question, yet, says Mr. Mantell, evidence of the original structure is not always attainable. The most perfect bituminous coal has undergone (apparently) a complete liquefaction, and if any portions of organization remain, they appear as if embedded in a pure bituminous mass. The slaty coal generally retains traces of cellular or vascular tissue, and the spiral vessels, and the dotted cells, indicating the coniferous structure, may readily be defected by the aid of the microscope, in chips or slices. In many examples the cells are filled with an amber-coloured, resinous substance; in others the organization is so well preserved, that on the surface exposed by cracking from heat, the vascular tissue, spiral vessel and cells, studded with glands, may be detected. Even in the white ashes left after the combustion of coal, traces of the spiral vessels are discernible by a high magnifying power. Some beds of coal appear to be composed wholly of minute leaves, or partially decomposed foliage; for if a mass recently taken from the mine be split asunder, the exposed surfaces are found covered with delicate pellicles of carbonized leaves and fibres matted together; and flake after flake may be peeled off through a thickness of many inches, and the same structure be apparent.

NATURE OUTWITTED!!!

Dr. Antrobus's Persian Hair Restorative,

AND HAIR DYE.

Under the immediate Patronage of the Princes of Persia and India.

These articles are without doubt the most extraordinary in their powers ever submitted to the Public, and require but to be tried, to be appreciated, admired, and continued.

The RESTORATIVE strengthens the hair and prevents it falling off after every other means have been resorted to unsuccessfully; it cures baldness and creates a natural curl, and by its use, myriads of persons of both sexes are indebted to having a good head of hair at the present moment. Its efficacy is therefore undoubted, and the whole world is challenged to produce an article to equal it, either for beautifying the human hair or preserving it to the latest period of life. For the production of Whiskers or Moustache, it is infallible.

The qualities of the HAIR DYE are decidedly superior to any thing of the kind ever attempted and the whole surface of the head can be changed into a most natural black or brown, within five minutes after using it, so as to defy detection from the greatest connoiseur. Advice by post gratis on receipt of Postage Stamps.

Certificate from one of the greatest Medical Men of the day.—Read it!!!

Copy of a Letter from Dr. Magrath, M. R. C. S., dated Duke Street, Adelphi, London, the 17th January, 1854.

To DR. ANTROBUS,

Sir,—I feel great pleasure in attesting the virtues of your Persian Hair Restorative. Several parties who have been patients of mine have derived the most inconceivable benefit from using it; and in fact it is owing to this article alone, that many of them are not at the present moment completely bald; one party I may mention in particular, who had been laid up with typhus fever; (a most beautiful young lady,) the attack however left her although as beautiful as ever in the face, still with scarcely any hair on her head. She tried every thing unsuccessfully, until I recommended to her your *Persian Hair Restorative*, and in three months, she again possessed the same dark curling locks, as before her illness, although if possible, still more jet like, and attractive. I must admit, although I have recommended it to hundreds of persons of both sexes, I have never found it fail, and consider, that where the hair is not past human aid, your wonderful preparation will restore it to its pristine state.

Your Hair Dye is the best I have ever seen or heard of, and has been used among my private acquaintances, with the most unbounded satisfaction.

I am, Sir, yours most truly,
(Signed) DENNIS MAGRATH.

Letter from Henry Vinson, Court Hair Dresser and Wig Maker, of 124, Leadenhall Street, London.

To DR. ANTROBUS,

Sir,—Your Hair Restorative is one of the greatest blessings ever invented. Several of my customers are quite enraptured with it, and consider it beyond all praise. I cannot deny, but that it has appeared to me quite wonderful, the alteration it causes after using it for a few weeks, it excels any thing of the kind I ever used, causing a complete metamorphosis, giving the hair a natural curl, and even entirely hiding grey locks, setting nature at defiance.

You may depend upon it, that it surpasses any thing of the kind ever brought before the public, and as to your Hair Dye, I can sell all you can send me, it is so unquestionably good.

I am, Sir, yours faithfully,
(Signed) HENRY VINSON.

The Restorative is sold at 1s. 6d., 2s. 6d., and 4s. per Bottle, Sterling. The Hair Dye 3s 6d. and 7s. per case. The larger sizes are a great saving. Directions for use accompany each Bottle and Case.

☞ *Be particular to ask for Dr. Antrobus's, or you may be imposed upon.*

Sold by all respectable Chemists and Perfumers throughout the world, and at Dr. Antrobus's Establishment, 2, Brydges Street, Strand. If any difficulty arise in obtaining it, send postage stamps to Dr. Antrobus's address, and it will be forwarded by return of post.

NOTICE.

THE undersigned having by power of Attorney of this date, been appointed by the Misses Stewart of Charlottetown, to act as their Agent and Attorney in the management of their Estate, situate on Lot or Township No. Eighteen, hereby notifies the Tenants and Settlers on the said property, to pay all sums of money due for rent or otherwise to him, without delay. Parties neglecting this warning, will be proceeded against without further notice.

ROBERT STEWART.

Charlottetown, 14th May, 1855.

WANTED to borrow, THREE HUNDRED POUNDS on property worth double the amount. Apply Haszard & Owen's Book Store.
May 18. tf

LOST, on Wednesday 16th inst., on Prince Street, between the Infant School and Major Beete's, a black Gig Whip; any body bringing the same to this office will be rewarded for their trouble.
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Temperance Lecture.

ON WEDNESDAY Evening next, J. CARTER, Esq., of Philadelphia, may be expected to deliver a Lecture in the Temperance Hall, on the leading principles of the Temperance Movement.

From the high encomiums bestowed on him by the periodicals of the day, we may expect a great treat

Chair to be taken at 8 o'clock. Tickets of admission, 9d. for two.

Building Lots for Sale and Lease.

FIVE BUILDING LOTS only will be sold at the Ferry opposite Charlottetown, Lot 48; the remaining lots will be let on renewable leases, also two desirable farms from 60 to 90 acres—within a mile of the aforesaid property. For further particulars, apply to Mr. JOHN BALL, or the proprietor,

J. P. BEETE.

May 17. 2mw

Notice.

THE Subscriber hereby cautions all persons from giving credit to any person on his account without a written order.

WILLIAM JAKEMAN.

Charlottetown May 11, 1855.

WANTED

FIVE ACTIVE MEN

FOR

HER MAJESTY'S SERVICE.

THE LIEUTENANT GOVERNOR of Nova Scotia having been empowered to embody a Foreign Legion and raise British Regiments for service in the Provinces or abroad.

Notice is hereby given

That able bodied men not more than 35 years of age and not less than 5 feet 4 inches in height, on applying at the Depot Halifax will receive a bounty of £6 sterling, and on being enrolled will receive the usual pay, allowances, and all advantages to which British soldiers are entitled.

Preference will be given to men who have already served.

Persons who serve in the Foreign Legion will on the expiration of their term be entitled to a free passage to America or the land of their birth.

Term of enlistment for Foreign Legion, to be 3 or 5 years at the option of persons enlisting.

It is to be perfectly understood that any man (not a Foreigner) enlisting for the Foreign Legion will on his arrival in England, be permitted to transfer his services to any Regiment of the Line, with the understanding, that the term of enlistment will under these circumstances be 10 years.

Pensions and gratuities will be given for distinguished services in the field.

Ship Masters are requested to convey men to the depot at Halifax, willing to serve Her Majesty, will be entitled to receive the cost of a passage for each man so conveyed.

God save the Queen.

JAMES FOX BLAND,
Lieut. H. M. 76th Regiment:

P. E. Island, May 5th, 1855.

Civic Elections.

SHERIFF'S NOTICE

IN parsuance of an Act of the General Assembly of this Island, made and passed in the Eighteenth year of the reign of Her present Majesty, intituled "An Act to incorporate the Town of Charlottetown," I do hereby give public notice, that the first Elections of Mayor and Councillors for the City of Charlottetown will be held on the FIRST TUESDAY in AUGUST next at the several places following, that is to say:

In Ward No. One—at the residence of Mr Bagnall, in Pownal Street.

In Ward No. Two—at the Fire Engine House, fronting on Great George Street.

In Ward No. Three—at the Old Court House.

In Ward No. Four—at the Fire Engine House fronting on King Square.

In Ward No. Five—at Mr. Tiorney's, at the corner of the Princetown Road.

And at the said Elections the Poll will be opened at 9 o'clock in the forenoon, and shall continue open till 5 o'clock in the afternoon of the same day.

WILLIAM BAGNALL Sheriff.

Sheriff's Office,

PHILIP J. COZANS,

PUBLISHER & WHOLESALE DEALER in Books, Stationery, Paper, Blank Books, Blank and Playing Cards, Pocket Books and Fancy Goods. 107 Nassau St., Cor. Ann St. NEW YORK. 6m

THE MAILS

FOR the Colonies, United States, &c, will be made up on Tuesday and Thursday mornings at nine o'clock, and *MAILS FOR ENGLAND*, will be forwarded by the same conveyance on TUESDAY NEXT, the 22d instant.

New Goods—New Style.

FROM GREAT BRITAIN.

BY the "*Sir Alexander*," 16 packages of GOODS, ready for inspection as soon as landed, at

Bell's Clothing Store, Market Square.

Consisting in part of Broad cloths, Summer cloths, fancy Cassimeres, Scotch Tweeds, silk Velvets, French cut Velvets.

French figured Vestings, White and fancy Marseilles, do. Black Satins, Grenada Vest shapes, cords and drills.

Every description of Garment, comprising all the new styles, will be made to measure, from these Goods, in a superior manner, and at prices to suit the times.

ALSO,

A large and choice assortment of Shirts, neck ties, suspenders, gloves, handkerchiefs, Hats and Caps, together with every article required for Gentlemen's wear, *except the boots.*

May 18, 1855. C. & J. BELL.

MEN'S READY MADE CLOTHING.

We are desirous of informing the public, that we have on hand, and are constantly making up, the largest and best stock of Ready made Clothing in Charlottetown—cut by ourselves, and made up by workmen in our employ.—Persons desirous of furnishing themselves with fashionable well made Garments, at reasonable prices, can be suited better at our establishment than any other in Charlottetown.

C. & J. BELL, Tailors,
All papers. 1in Opposite the Market.

"The Poor ye have always with you."

By Especial Request.

VOCAL AND INSTRUMENTAL CONCERT:

Under the Patronage of His Excellency Dominick Daly, Esq., and Lady, in behalf of the Poor of Charlottetown. The Ladies and Gentlemen who gave the last CONCERT, in aid of the Patriotic Fund, beg to announce that they have consented to give another Concert on TUESDAY Evening, the *Twenty-Second* inst., for the above laudable object.

The friends of the Poor in our own land will now have an opportunity of exhibiting their zeal in behalf of the distressed.

TICKETS—Reserved seats, 2s. 3d.; Rear 1s 6d. To be had at the Stores of Haszard & Owen, T. DesBrisay & Co., Henry Stamper, and W. R. Watson, Esqrs.

☞ A Plan of the reserved Seats to be seen at the Store of Haszard & Owen.
May 11.

THOMAS WILSON, of Tatmagouche, Nova Scotia. Nursery-man, Florist and Gardener, begs to intimate to the inhabitants of Charlottetown and vicinity, that he has arrived here with an assortment of Fruit, Shrub and ornamental Trees suitable to this climate. He can be consulted at the Globe Inn, for a few days. All orders left at the Shop of Mr. J. C. Traverse, Auctioneer, Queen Street, will be forwarded to the Nursery in Nova Scotia, and information afforded.

Charlottetown, 16th May 1855.

WESTMORELAND HOTEL, Shediac.

THE Subscriber, in returning thanks to the travelling public of P. E. Island generally, for past patronage, assures those who may still favour him with their support, that they will find superior entertainment, and every attention paid to the care of luggage by calling at his Hotel, situate on the Main Post Road, within a few minutes' walk of the Public Wharf, to which Steamers and Packets run regularly to and from P. E. Island. Conveyance to the Bend or any other place at any hour; Island produce of all kinds either for sale or to be forwarded to the Bend, shall receive my best attention; goods taken charge of and shipped for the Island.

PETER SCHURMAN.

WAX WORK.

THIS handsome and well-known Horse "WAXWORK," imported from England by the Royal Agricultural Society in 1853, will serve for the season at the following places, commencing on the 10th April:—He will on Monday, the 30th of April, go on the New Glasgow Road, as far as Mr. Wm. Laing's, and stand there from 12 until 2; thence go on to Rustico, and stand at Mr. Christopher Bulman's until Tuesday morning; thence go on to New Glasgow, and stand at Mr. Dickerson's from 11 until 2; thence go on to New London, and stand at Mr. Tyle's until Tuesday evening until Thursday morning; thence return to Mr. Haslam's, and stand from 12 until 3; thence go on to Mr. R. Bagnall's, and stand from Thursday evening until Friday morning; thence return home on Friday evening, and alternately once a fortnight to the above named places for the season. He will stand in Charlottetown every Saturday, and every second Wednesday, at Mr. Jonathan Collins's Stables, and all other times, at the Subscriber's Stables, Old York River Road, 4½ miles from Charlottetown. This Horse stands 16½ hands high, and is of a handsome grey color; this horse has given the Farmers in Queen's County good satisfaction by proving a sure foal-getter, and his stock are very much admired. Terms, 15s for the season, the money to be paid the first time of serving.

JOHN STOCKMAN.

Old York River Road, March 27. en