Scientific.

VALUE OF A DEAD HORSE.

The *Scientific American* recently contained an article on the uses to which dead horses can be applied, in the course of which it is remarked that the animal must be a remarkably good one if he is worth as much when alive as he is to the retorts and kettles of the chemists. As soon as the horse is dead, his blood is sought by the manufacturers of albumen, and by sugar refiners, and the burners of lampblack. Not a drop is allowed to go to waste.

The mane and tail are wanted for hair-cloth, seives, bow-strings and brushes. The skin is converted into leather for cart-harness, for boots and shoes, and strong collars. The hoofs are used for combs, horn work, glue, and in old times were the chief source of hartshorn, now obtained from the gas-house. The flesh is boiled down in the rendering vat, and much oil and fat is obtained from it. Some of the choice bits may find their way into cheap restaurants, and play the part of beefsteak, or help to enrich the hasty plates of soup of these establishments. The flesh left after all has been extracted from it, that is of any service, is something burned, to be used as manure, or is worked up into nitrogenous compounds, such as the cyanides, to be used by the photographer in taking our pictures. The stomach and intestines make valuable strings and cords for musical instruments, and out of the bones so many useful articles are manufactured that it is almost impossible to make out a complete list of them. Among them are buttons, toys, tweezers, knife-handles, rulers, cups, dominoes, balls and the residue from all these things is burnt into boneblack, to be used by the sugar-refiner, who puts in a second claim on the dead horse; and some part of the backbone is burned white, to be used by the assayer in testing gold, and, when the assayer and refiner have finished with it, it is converted into super phosphate, to serve as a valuable manure on our land. The teeth are used as substitutes for ivory, and the iron shoes, if not nailed over the door to insure good fortune to the household, are worked up into excellent wrought metal. Some portion of the boneblack is converted into phosphorus for the manufacture of matches, and lately a valuable bread preparation is made of the phosphate, and medicines are prepared for the cure of consumptives.

GAS WELLS IN OHIO.

A gas well was recently sunk at Painesville, Ohio, which, according to the *Telegraph* of that place, is quite a marvel. The editor says:

At a depth of 550 feet, a large vein was struck, of such force and power as to stop the work. Indeed there was no occasion for drilling deeper. The volume of gas is so great, it is estimated by good judges, that it would light the entire city of Cleveland. It comes up through the pipe from "the great deep" below with a rush and a roar and a grandeur which one must witness to appreciate. The farm of Mr. Jennings, on which this well is located, is on the east bank of the river, nearly opposite the Geauga furnace, on high ground, and about two miles from the lake shore.

The complete success of this experiment is destined to work an entire revolution in the gas business of Painesville. Citizens in different parts of the town are discussing the project of sinking wells to accommodate several families in the same neighborhood, in all of which cases it is intended to use gas for heating as well as lighting.

For this new "light" in the prosperity of our town and the comfort of our citizens, we are indebted to Gen. Casement. The General had faith that there was as much gas below as above the earth's surface, and all that is required is the enterprise to bring it to light. All rejoice at his success.—*Scientific American.*

A new motive power, called an "aero-steam engine," has been produced at Nottingham, England. The principle of this engine consists in the continuous injection of heated air into the bottom of the boiler, whereby the water is kept throughout in a constant state of agitation or effervescence, producing, it is said, considerable economy in the consumption of fuel, and preventing incrustation in the boiler, or priming. The immense value of such an invention, if successful, will be readily recognized.

WOMAN'S "LOCAL ATTRACTION."

A commander in the royal mail service found his steamer some thirty miles out of her course. He was sorely troubled, and could not account for the local attraction that had sent him so far out of the way. Instruments and calculations appeared equally faultless. Sorely troubled from having passed a sleepless, watchful night, the captain went on deck after breakfast. Seeing a lady sitting (as was her custom) and working near the binnacle, it occurred to him that probably the scissors were resting on the ledge of it. Detecting nothing of the sort, and bent on closer investigation, he discovered that her chair, had an iron frame. It also quite reasonably flashed across him that the lady's ample crinoline was extended by steel hoops. So, mustering all his faculties, he exclaimed with as much forgiveness and as little reproach in his eye as possible, "Madame, you have, by your local attraction, drawn my ship some forty miles from her course."

AN ENIGMA.—The following is an enigma, said to have been written by Mr. Canning, which for a time baffled the skill of all England to solve:

"There is a word of plural number,
A foe to peace and human slumber;
Not any word you chance to take
By adding 's' you plural make;
But if you add an 's' to this,
How strange the metamorphosis;
Plural is plural then no more,
And sweet what bitter was before."

The word is "cares," to which by adding "s" you have "caress"

ADVANCING CIVILIZATION. — Dr. Stewart of the Free Church of Scotland mission at Lovedale, in South Africa, has begun the publication of a secular and religious newspaper, printed in English and Kaffir. Christianity must certainly have done much for the degraded South Africans, when the missionaries are warranted in starting a newspaper for them.

Some curious Good Friday bequests were, as usual, observed in some of the city churches. At All Hallows Church, under the will of one Peter Symonds, sixty of the younger scholars of Christ's Hospital each received a new penny and a small packet of almonds and raisins. In the parish of St Bartholomew the Great, the curate after preaching a sermon, laid about twenty sixpences upon a stone in the churchyard, and the coins were duly gathered by a similar number of aged women who had been selected to receive the gift.—*London Paper.*

A JEWISH TRADITION.—An organ of the Jews states that an eminent rabbi says that it is a tradition of the German Jews that, at the time when the empire of Germany shall be re-established—the empire ceased several hundred years ago—this will be the omen of the coming of the anxiously-expected Messiah.

A "land-and-water velocipede" is the next novelty with which we are to be favored. A Mr. Jackson is constructing a velocipede which is to convey him direct from London to Paris without stopping, its peculiarity being that it is amphibious. The same wheels which are suitable for the road will act as paddles in the water, and appear to be as suitable for the one as for the other. The experiment has been tried with a temporary-constructed machine, and found to be practicable.

THE GREAT WEST.—Chicago boasts the greatest lumber market in the country, if not the world. Her wharfs for this indispensable commodity stretch for more than fifteen miles, and seem almost interminable. Thousands of car-loads are constantly leaving for the West, and South, and East, and the railroads and lake are as constantly bearing in their great burdens to supply the constantly increasing demand. With all this immense array of almost endless piles of lumber and timber, it is almost impossible without the aid of art to furnish it in sufficient quantities dry enough for use.

MARRIAGE IN LENT.—*Punch* thus ridicules the High Church scruples against the marriage of the Princess Louise during Lent:

CLERICAL ERROR.

"High" Parsons would have couples tarry
When they propose to wed in Lent—
But why? The sooner people marry,
The sooner, mostly, they repent.

MESSENGER ALMANACK.

JUNE, 1871.

Full Moon, June 3rd, 2h. 12m. morning.
Last Quarter, " 9th, 8h. 23m. afternoon.
New Moon, " 17th, 10h. 15m. afternoon.
First Quarter, " 25th, 6h. 30m. afternoon.

Day Mo	Day Wk	SUN. Rise	SUN. Sets	MOON. Rises	MOON. South	MOON. Sets	High Tide at Halifax.
1	Th..	4 22	7 34	5 58	10 52	3 11	5 36
2	F ..	4 21	7 34	7 18	11 52	3 46	6 27
3	Sa ..	4 21	7 35	8 36	morn	4 26	7 16
4	SU.	4 20	7 36	9 44	0 56	5 16	8 3
5	M..	4 20	7 37	10 42	1 59	6 14	8 52
6	Tu .	4 20	7 37	11 28	3 2	7 22	9 40
7	W..	4 19	7 38	morn	4 1	8 34	10 32
8	Th..	4 19	7 39	0 5	4 56	9 47	11 22
9	F ..	4 19	7 39	0 36	5 46	10 56	A. 13
10	Sa .	4 18	7 40	1 1	6 32	A. 3	1 14
11	SU.	4 18	7 41	1 24	7 16	1 8	2 20
12	M..	4 18	7 41	1 46	7 58	2 10	3 30
13	Tu..	4 18	7 42	2 10	8 40	3 10	4 32
14	W..	4 18	7 42	2 33	9 23	4 13	5 49
15	Th..	4 18	7 43	2 59	10 6	5 13	6 17
16	F ..	4 18	7 43	3 29	10 52	6 15	6 59
17	Sa..	4 18	7 43	4 4	11 39	7 14	7 38
18	SU.	4 18	7 44	4 46	A. 28	8 10	8 13
19	M..	4 18	7 44	5 34	1 18	9 2	8 48
20	Tu .	4 18	7 44	6 29	2 8	9 47	9 23
21	W..	4 18	7 45	7 29	2 57	10 25	9 58
22	Th..	4 18	7 45	8 33	3 46	10 59	10 34
23	F..	4 18	7 45	9 38	4 33	11 28	11 13
24	Sa..	4 19	7 45	10 45	5 20	11 55	11 59
25	SU.	4 19	7 45	11 54	6 7	morn	morn
26	M..	4 20	7 45	A. 59	6 54	0 20	0 47
27	Tu..	4 20	7 45	2 15	7 44	0 45	1 44
28	W..	4 21	7 45	3 30	8 36	1 13	2 50
29	Th..	4 21	7 45	4 48	9 33	1 42	3 56
30	F ..	4 22	7 45	6 7	10 34	2 18	4 59

THE TIDES.—The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newpo t, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes *later* than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes *later*, and at St. John's, Newfoundland, 20 minutes *earlier*, than at Halifax. At Charlottetown, 2 hours 56 minutes *later*. At Westport, 2 hours 54 minutes *later*. At Yarmouth, 2 hours 20 minutes *later*.

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT—Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising next morning.

New York and Oswego Midland Railroad.

FIRST MORTGAGE BONDS.

Principal and Interest payable in Gold.

Interest 7 Per Cent. Gold per annum free from Government Tax.

200 miles of road finished; and doing a profitable business.

THIS road spans the State of New York from its Metropolis to its Northern borders.

Its Northern terminus is at the city of Oswego, on Lake Ontario. It shortens the railroad connection of the City of New York with Oswego and Canada FORTY FIVE MILES, and by means of a branch at Auburn, where it connects with the New York Central, it shortens the connection with Buffalo and the West SEVENTY MILES.

The Company has a contract with the Delaware and Hudson Canal Company for the transport of their coal, which adds largely to the business and profits of the coal.

The PAID-UP CAPITAL of the Company is about $6,500,000, which it is believed is a larger Capital than any other railroad enterprise in the United States ever started with. The issue of Bonds is limited strictly to $20,000 per mile of ROAD ACTUALLY BUILT AND IN RUNNING ORDER.

The annual earnings of the road are estimated at nearly $900,000; the operating expenses will not exceed fifty per cent which would leave, after payment of interest on Bonds, over $214,000. For sale by

W. S. STIRLING, Halifax,
T. S. WHITMAN, Annapolis,
G. OPDYKE & CO., Bankers, N. York.

April 19th. 3m.

A. V. P. B.

ARCHIBALDS VEGETABLE PAIN BALSAM is an article worthy of patronage and should be found in every house. It is equal if not superior to any other Pain Killer now in use. Also, Archibald's Cough Mixture for Coughs, Colds, and all Lung Diseases.

The Proprietor has removed to Truro, Colchester Co., N. S., is now extending his business, and will be prepared to furnish his numerous patrons with the above, as well as many other valuable remedies compounded by him.

Sold by all the principal Dealers and Druggists in the Provinces.

Oct. 21. 1 yr.

To Parents and Sabbath School Teachers.

JUST PUBLISHED.

SECOND EDITION—REVISED.

A SCRIPTURE CATECHISM,

for the Family, the Bible Class, and the Sabbath School,

BY S. SELDEN.

Price 8 cents or $6.00 per 100.

TRY NELSON'S CHEROKEE VERMIFUGE.

THIS valuable Indian combination has been successfully used by physicians, and found to be safe and sure in eradicating worms in persons of all ages. Prepared by

W. J. NELSON,
Bridgewater, N. S.

☞Sold everywhere.

Sept. 14. 1y. c e 3 mths.

WRIGHT'S
Patent Sectional Spring Bed!

THE Subscribers having been appointed Sole Agents in the Province for the sale of this article, recommend it as being the easiest and most comfortable to rest upon, and together with its durability, and the facility with which it can be taken apart and cleaned, they feel certain that it will be found to be a most convenient article.

May 20. GORDON & KEITH.

EAGAR'S
Peruvian Bitters!

COMPOUND

Of Peruvian Bark, Sarsaparilla, Dandelion, Wild Cherry, and other valuable remedies.

AN EXCELLENT

TONIC, APPETIZER, & STIMULANT.

Cures LIVER COMPLAINT, DYSPEPSIA, ACIDITY of the STOMACH, DEBILITY and PAIN in the BACK, RESTORES the VITAL ENERGIES, when exhausted, braces up both the Nervous and Muscular System, PURIFIES the BLOOD, and Restores the Appetite.

Particular attention is called to the fact that the

PERUVIAN BITTERS

are not an Alcoholic preparation, but simply a scientific combination of valuable Roots and Barks, which purifies the Blood and restores the waste, thereby bracing up both the Nervous and Muscular Systems, and giving that permanent HEALTH, STRENGTH and VIGOR, both of mind and body which nature intended man should possess.

This BITTERS is not sold as a specific for every disease, but in cases of GENERAL DEBILITY and its effects, such as Dyspepsia, Loss of Appetite, Weakness of the small of the Back, Weak Memory, Indspositon for Exertion. Sense of Fullness after Eating, &c., caused by anxiety over exertion, mental or bodily, late hours, and excesses of every kind, it has no equal.

Although these BITTERS contain no Alcohol, they will most efectually wean the taste from Stimulants and enable the system to dispense with them at once.

The proprietor, although averse to the practice of puffing any medicine, feels it his duty to give publicity to the following certificates.—Hundreds could be added, but such names as Dr. How, Professor of Chemistry at King's College; Capt. Hardy, R. A.; Mr. Solomon, Lunenburg; and Dudley de Chair, Esq, Halifax, will be sufficient to establish its reputation as a reliable and valuable medicine.

CERTIFICATES:

I have found Mr. Eagar's PERUVIAN BITTERS beneficial to myself and in my family, and have heard of their being used with good effect in another case in Windsor.

(Signed) HENRY HOW, D.C.L.
King's College, Windsor.

MR. EAGAR,—I have used your PERUVIAN BITTERS in a personal case of Dyspepsia, and have derived the greatest benefit therefrom.

(Signed) C. HARDY,
Capt. R A.

LUNENBURG, 28th June, 1869.

MR. EAGAR,—I have used your PERUVIAN BITTERS and can highly recommend them, as I have derived great benefit therefrom.

(Signed) EDWARD H. SOLOMON,
Dy. Surveyor, Co, Lunenburg.

I have tried Mr. Eagar's PERUVIAN BITTERS, and can strongly recommend them.

Signed, DUDLEY DE CHAIR.
Halifax, June 3, 1869.

FOR SALE in large bottles at 37½ cts. per bottle, and in one dozen and three dozen boxes. Orders from the country will receive immediate attention. Dealers Supplied on liberal terms.

TOOTH ACHE.

EAGAR'S

ODONTINE ESSENCE

gives instantaneous relief in all cases of Tooth Ache arising from hollow teeth and exposure of the nerve.

Thousands of bottles have been sold and in no case has it failed to give satisfaction.

Be sure and obtain Eagar's Odontine Essense; take no other.

The money will be returned if it fails to give relief when used according to directions in cases of tooth, ache from exposed nerve.

25 CENTS PER BOTTLE.

If the above article cannot be obtained at the stores near where you live send the price in stamps to the subscriber's address and it will be forwarded immediately. Dealers supplied on liberal terms.

M. F. Eagar.
149 Hollis St.
Halifax.

NEW
WHOLESALE DRUG STORE,
149 Hollis St., Halifax.

The subscriber is prepared to execute orders for Drugs, Chemicals, Perfumery, Patent Medicines' Paints, Varnishes, Oils, Toilet Articles, and all other articles usually supplied by Drug Houses.

Being agent for first class Surgical Instrument makers in London and Paris, their respective priced lists can be seen at his establishment.

His knowledge of the London, Liverpool and Parisian Markets, enables him to offer goods at very low prices for cash as will be seen by a few quotations below:

Hair Oil,	at from....	$0 37	per doz
Perfume,	"	0 60	"
Black Cup Pomade,	"	1 00	"
Box Wood top Pomade,	"	1 00	"
Glycerine & Camphor Roll	....	0 90	"
Soaps,	"	0 25	"

Prices of any articles will be given with pleasure when required.

Should any article purchased at his establishment not prove to be what it is represented, it can be returned at his expense, if not otherwise made satisfactory.

M. F. EAGAR.
149 Hollis St.
Feb. 23. Halifax.

DR. JOSEPH D. DAVIS

WOULD inform the public that after thirty years of study, investigation and practical experimenting concerning that terrible disease

CONSUMPTION,

And the diseases of the anterior and posterior naries, throat, bronchia, lungs, heart, liver, kidneys, and uterus, and twenty years spent in investigating, experimenting and proving, with the medicinal and therapeutic properties of the roots, barks, plants and shrubs, indigenous to Massachusetts, Maine, New Brunswick and Nova Scotia,—he has discovered new remedies, and new modes of treatment, for Consumption, not previously known to Medical Science; and with the large number of cases treated, relieved and cured during the past ten years, in Maine, Massachusetts, and in different sections of Nova Scotia, has proved, beyond the shadow of a doubt, that Consumption, very often in its advanced stages, with his medicines and mode of treatment, can be cured.

He has, at great expense, procured from London, Paris, Vienna and the United States, the finest and most delicate instruments to enable him to thoroughly diagnosis diseases.

CAPE SABLE ISLAND, N. S., July 15th, 1870.

DR. DAVIS—

Dear Sir—The wisest of men has said that in "a multitude of counsellors there is safety." Having been benefitted by your medicines, I wish to say it to others who may be suffering from lung diseases. Early in 1869 my health began to give way, until such a lack of vital tone was experienced that I concluded it was time to try to avert the impending danger or doom; and arranged last autumn for a rest and a visit to my native Province; but on returning found myself no better; I became discouraged, fearing if no help could be obtained that I should have to abandon my work in the ministry. Happily for me, as the sequal proved, you were directed this way last winter; and, upon examination, you said my lungs were in a tubercular condition, and advised me to take medicine; to which I consented, with many misgivings, which, however, were dissipated in the course of four or five months. For the first three months I could not discern much change; but after that began to feel a new vitality permeating my whole system; my work, which for months had been burdensome, became lighter and more agreeable; and now I enjoy a vigorous state of health. If this testimony should induce any who are suffering from lung disease to employ you, with the same success. I do not doubt but they will feel that, under the Divine blessing by which you have been enabled to gather such valuable knowledge from nature's storehouse, they are your debtor. With earnest prayer that you may succeed in business and become a blessing to many of the afflicted, I remain, with kindest regards,

WM. M. KNOLLIN,

DR. DAVIS has taken rooms at the LOVITT HOUSE, 68 Hollis Street, where he will remain until the 1st July next, and may be consulted daily from 11 a. m., to 6 p. m.

March 15.

Superior Pianos,

IN VARIOUS STYLES.

UPRIGHT, OBLIQUE, SQUARE, &c.

With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of

THE "SILVER TONGUE."

A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y.

The above are offered to a discriminating public at moderate prices,

WM. FRASER & SONS,
June 1. 70 & 72 Barrington St.

340 IRON BEDSTEADS,

Per "Wasp" and "City of Halifax."

McEWAN & CO.

UPHOLSTERERS.

OFFER to all classes of purchasers the advantages of

THE LARGEST STOCK TO SELECT FROM,

THE LATEST STYLES AND COLORS,

THE CHEAPEST ARTICLE OF THE BEST QUALITY.

The Patent Bed Chair with mattress complete, being the most portable and convenient Bedstead in the market.

CHILDREN'S BEDSTEADS, COTS, and folding STRETCHERS,

BEDDING of all kinds.

English and Scotch Floor Cloths,

Furniture and Furnishing Show Rooms,

20 BARRINGTON STREET, HALIFAX.

May 3. 1 m.

THE CHRISTIAN MESSENGER

Is published every WEDNESDAY. Terms—Two DOLLARS a year, when paid in advance; if payment is delayed over three months $2.25 when over six months $2.50.

Subscribers beyond the Dominion of Canada, must send in addition to the above, 20 cents a year for prepayment of postage.

ADVERTIZING at usual rates.

STEPHEN SELDEN, Proprietor.

OFFICE No. 59 GRANVILLE STREET.
HALIFAX, N. S.

☞ PRINTING of Books, Pamphlets, Cards, Handbills, Blank forms, &c., &c., on reasonable terms.

Magistrates Blanks always on hand.