Scientific.

A NEW AND ECONOMICAL FUEL.

On a recent occasion, a large number of citizens, by invitation, visited the brass foundery of Mr. W. T. Garnett, on Fremont Street, for the purpose of witnessing some experiments with a new fuel recently invented and patented by Dr. Ireland, of Watsonville, in this state. They were shown into that portion of the establishment occupied by the furnaces, and in one corner found a brick furnace some eight feet long and six feet high. On the top of this was an iron tank holding about ten gallons, which was filled with crude petroleum. From the tank a pipe about an inch and a half in diameter led into the side of the furnace. A small jet of oil, not larger than a small quill, was permitted to flow out of this tube; a light is placed beneath this jet, and it immediately ignites. Another pipe about an inch in diameter leads from a steam-boiler stationed some fifteen feet away. This pi, e sends a small jet of steam upon the burning oil and the moment the steam strikes the oil the oxygen in the water is set free and ignites with a tremendous roar, generating in a very few moments an intense white-heat. From this small source the entire chamber, which is some two feet by five feet, is filled with a flame so brilliant and dazzling that one cannot gaze on it for more than a moment at a time. This flame possesses all the heat of an oxyhydrogen flame, and beneath its fierce p wer the hardest metals melt in a few moments. The inventor of the apparatus by which the elements of heat, which nature so generously provides can be utilized, is a very modest man, saying that he did not want to bring his discovery before the public un'il he had fully demonstrated that it would do all that he claimed for it. He says that the cost of his furnaces will only be a nominal sum—that they will be within the reach of every one who owns a quartz ledge, while the amount of oil consumed in twenty-four hours will not exceed ten gallons, at a cost of \$2. The doctor has every confidence in the discovery, declares his ability to furnish fuel for a voyage of one of the Panama steamers to and from Panama for the insignificant sum of \$200, while the entire quantity will not weigh to exceed twenty-five tons. He further says that at an expense of \$5 per day he can run furnaces that will melt one ton of ore every thirty minutes. If only one-half of what is claimed can be accomplished, the discovery will prove of incalculable advantage to the mining interests of the Pacific coast, and will create a revolution in steam travel throughout the world.—San Francisco Alta.

MRS. LIVERMORE says that she glories in romps, because they have the title-deed to a long life of perfect health, and that she has always been in a chronic quarrel with the present method and over-weight of dress which interferes with out door pursuits, and kills so many women. She also holds that it is incumbent on women to learn a trade, understand business and to supprt themselves, instead of waiting, as they do, upon the banks of the river of life, for some man to paddle along in his canoe and take them in.

A SPOILED OWL .- Dr. Willets lecturing in Boston the other night, told a droll story of himself. He said that at one time, when he was a connoisseur in bird-stuffing, he used to criticise other people's bird-stuffing severely Walking with a gentleman one day, he stopped at a window where a gigantic owl was exhibited. "You see," said the doctor to his friend, " that there is a magnificent bird utterly ruined by unskilful stuffing. Notice the mounting! Execrable, isn't it? No living owl ever roosted in that position. And the eyes are fully a third larger than any owl ever possessed." At this moment the stuffed bird raised one foot and solemnly blinked at his critic' who said very little more about stuffed birds tuat afternoon.

SIMON THOMAS, a Toledo bootblack and a colored man, having by industry made a handsome fortune, has purchased the Lutheran church in Perrysburg. Ohio, and has given it to his colored brethren.

Do you want to know the person against whom you have the most reason to guard yourself? Your looking-glass will give you a very fair lkeness of his face.

Agriculture.

GOOD ADVICE.

If you wish to save money, and at same time keep your Horses and CATTLE in good condition during the present season of the year, we would recommend you to use the "North BRITISH COMPANY'S" NUTRITIOUS CONDIMENT, we hear it spoken of very highly by those who are using it regularly, as being the cheapest and best SEASONER and INVIGORATOR ever introduced into this province-especially for Horses, Cows, Oxen and Pigs .-Just get one of the small bags, and you will also be satisfied. It is sold in bags at \$1 25, \$2.50, \$4 25, and \$8, wi h a Pamphlet, and full directions in each bag.

Address-The "North British Cattle Food Co.," 83 Lower Water Street, Halifax. Feb. 19.

Sowing grass seeds .- We prefer (in answer to several inquiries on our table) to sow grass seed early in the fall, or late in summer, so that the plant may get well established before the ground freezes. If sowed la e in the fall, and yet early enough for the seed, to germinate the young plants are more likely to winter-kill and the seed is lost. If the seeding cannot be done early in the fall, wait until February the seed will germinate early and get a full season's growth.

We recommend the re-seeding of both pastures and meadows. Especially is it important in the case of meadows where the practice is to cut the crop while in bloom or before the seed drops; and especially if it is in the main a Timothy meadow. For Timothy is a biennial grass and will " run out" in two years if not renewed by re-seeding-hence the remark common among farmers that the red clover runs the Timothy out. This rule also applies to closely fed pastures. The constant cropping with only the tough wiry, wild grasses which the stock will not eat, going to seed, soon runs out the better sorts, unless seed is sown more frequently than it is. Harrow over the old pastures and give them a re-seeding with white clover, orchard grass, Timothy, redtop, etc, once in two or three years, and increased forage will repay the trouble.

Lands that are overflowed in the fall and winter, and are liable to be washed badly by such overflow, whether pasture or meadow, are better for frequent re-seeding. Indeed, it is essential if the tame grasses are to be kept in them at all; otherwise the coarse, in nutritous marsh grasses will surely succeed them. On such lands the seeds should be sown as soon as the water has sub-ided from them in spring .- Rural New Yorker.

SLEEPING FLOWERS .- Almost all flowers sleep during the night. The marigold goes to bed with the sun, and with him rises weeping. Many plants are so sensitive that they close their leaves during a passage of a cloud. The dandelion opens at five or six in the morning, and shuts at nine in the evening. The goat's-beard wakes at three in the morning, and shuts at five or six in the evening. The English. daisy shuts up its blossoms in the evening, and opens its "day's eyes" to meet the early beams of the morning sun. The crocus, tulip, and many others, close their blossoms at different hours toward the evening. The ivyleaved lettuce opens at eight in the ARTIZANS, he is now in a position to manumorning, and closes forever at four in the afternoon. The night-flowering cereus turns night into day. It begins to expand its magnificent sweetscented blossoms in the twilight; it is full-blown at midnight, and closes, never to open again, with the dawn of day. In a clover field not a leaf opens till after sunrise. Those plants which seeem to be awake all night have been called "the bats and owls of the vegetable kingdom."

A new machine for reducing wheat to flour, said to be vastly superior in rapidity of work, and in the quality of its product to the common mill-stone, has been invented in England. It consists of iron cages with revolving radii making four hundred revolutions in a minute. Two mills constructed on this plan are in operation in Edinburgh, each doing the work of twenty seven pairs of ordinary mill-stones, the flour being also of a much superior quality. A THE WITTERS IN

A kind No is often more agreeable than a rough Yes.

FLOWERS AND FASHION. - The Gardener's Monthly thus notices the changes that have occured in the popular taste for plants and flowers. It says :- In Europe, fifty years ago First Quarter, Feb. 4 k, 5h, 51n, morning. hardy herbaceous plants were all the rage. Then came the fashion of having only one kind of plant in a bed, so as to have a mass of bloom in the Summer-the "massing" period. The "riubon" age came next, in which not merely flowers, but coloured leaves were brought into use, and the harmonies were effected by various kinds of plants arranged in the same bed. It rejoices in the information that Europe is returing to herbaceous plants, and thinks that wild herbaceous plants may be brought from the woods and field that will equal or surpass in beauty many of the exotics that are so much in favour.

Joyful news for the Afflicted,

GATES'

Life of Man Bitters.

Wilmot, February 15, 1868.

Mr. Caleb Gates - Dear Sir-I feel entirely well of pain in my side and have raised no more blood and matter since taking two bottles of your medicine I have tested it in my family with a like result; my wife, one of my sons and myself have all been cured of severe affections of the Lungs and stomach by its use after every other medicines have failed. I cordially recommend it.

JOHN H POTTER.

Caledonia June 4. 1863. This is to certify that I was given up by all the most skilful physicans in New York with the dropsy, in its worst form, with a large lump in my side, and swelled out of all kind of human shape, when hearing of Mrs E. Gates medicine, I was indouced to try it, and by so doing I am happy to inform the public, I am restored to perfect health.

> JOHN CANE. The medicines are manufactured by. CALEB GATES.

CALEB GATES, ESQ. sir,-This is to certify that I was for a oon siderable length of time seriously affected with indigestion companied by a severe pains in the chest and side. After trying different medi cines w. usus experiencing any permanent reliefwas induced by your Ager t to try his medi ciues and after using three bottles of Bitters and Syrup, I was entirely cured.

I would cheerfuly recommend it to all simi-

GEO DONKIN. Conductor W. A. Railway. Kentville. Oct 5ta, 1870.

This is to certify that C Wheelock of Nictaux Annapolis in the Country of Annapolis and Province of Nova Scotia has been afflicted with Liver Complaint and c uplicated disease two years. Have tried different physicans and different medicines of various kinds, but found lit. tle or no relief until I applied to Mr. Caleb Gates for his medicine. After using it I soon found the diseases had to yield under his treatment, I write this for the benefit of others who may be afflicted as I have been. August 4, 1866.

CHRISTIAN WHEELOCK PRICE. Bitters \$1 per quart : Syrup 50 cents per pint bottle; Liuiment 20 cents per bottle and the ointment 30 cents per box

Address CALEB GATES & CO., Farmington. Wilmot, Annapolis Co. A large number of certificates, similar to the above, have been received and will be published at times for the information of the afflicted and the people generally.

AGENTS .- George V. Rand, Wolfville. John Webb, Windsor. J. E. Newcomb, Hantsport. J. L Cogswell, Kentville. Sheffield & Wickwire, Canning.

GENERAL AGENT, JOHN K BENT. 126 Granville Street, Halifax. Jan 15.

NOVA SCOTIA Boot & Shoe Factory 22 F 28 GRORGE STREET.

HE Sanscriber begs respectfully to intimete to he Friends, and Public generally, that having fitted up his Establishment with the Latest and most Laproved

Machinery. and having secured a STAFFOF SUPERIOR

BOOTS AND SHOES,

Which for VARIETY, QUALITY, STYLE, FINISH AND CHEAPNESS cannot be excelled by

any goods offered in this market, whether Dominion, English or American. BOOTS AND SHOES, at all Prices

BOOKS AND SHOES, in all sizes. BOOTS AND SHOE made after the latest French. English and American designs.

Examine for yourselves, compare with other Goods, and if found worthy, encourage Home Manufactures.

WHOLESALE BUYERS Will find our Terms Liberal, and we assure

them that their interests will receive our best

GEORGE S. YATES. Halifax, N. S., April 24, 1871.

To Parents and Sabbath School Teachers. JUST PUBLISHED.

SECOND EDITION-REVISED. A SCRIPTURE CATECHISM,

for the Family, the Bible Class, and the BY S. SELDEN. Price 8 cents or \$6.00 per 100.

HALIFAX N. S., FEBRUARY 19, 1873 MESSENGER ALMANACK.

FEBRUARY, 1873.

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THE TIDES .- The column of the Moon's Southing gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Haifax. At Annapelis, 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 min-

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 -Sub- | none is genuine without our name on the the time of the sun's setting from 12 label. hou. and to the remainder add the time of

CAST SHOTLENDS Charles Control of the Control of th

WINDSOR & ANNAPOLIS RAILWAY. CONDENSED TIME TABLE.

DECEMBER, 1872.

HALIFAX TO ST. JOHN.

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66	Wolfville	44		7.53	1.32	5.24
771	Hantsport	44		8.33	2.15	5.50
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	Windsor June.			11.45	5.35	7.45
	Bedtord	44		12.03	5.55	8.00
	Halitax-Arriv			12.30		8.25

N. B.—The Express Trains run on Monday, W duesduy, and Saturday only Steamer "Scad" leave St. John on Monday, Wednesday, and Saturday, at 8 a m., for Annapolis, and return same day on arrival of 8 a. m. Express Train from Halifax. International Steamers leave St. John every

Thursday at 8 a. m., for Eastport, Portland, European and North American Railway Trains le. ve St John at 8.00 a. m. and 3 p.m.

for Woodstock, Fredericton, St Stephens, Banger, Pertiand, Boston, and all parts of the United States and Canada. Through Tickets at reduced fares by above routes to all parts in the United States and Canada may be obtained at the Ticket Office, 126 Hollis Street, Halifax, at Richmond, and

the principal Stations on the Railway. P. INNES. Kentville, 16th Dec., 1872. Munuger.

H. G. LAURILLIARD, TAILOR,

GENTLEMEN'S DRESS MATERIALS

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NEW YORK FASHION PLATES. 231 HOLLIN STREET. HALIFAX, N. S. May 17.

MARGESON'S CALOULIFUGE

This valuable Medicine is now before the public. Sure care for the Gravel, Stope in the Bladder, and all diseases of the Kidney; in some cases it has cured the Kropsy-the worst or weakest case may use it; perfectly vegetable and in almost ail cases it is a sure remedy. Try one bottle. Over 200 cases have been cured in Halifax. It is equally effectual with cattle or Horses, if taken in large quantities. Directions for use will be found on the wrap-

Sold wholesale by Avery Brown & Co. R. C MARGESON & CO., Halifag.

after the second trial I was perfectly cured.

Recommending it highly to any fellow sufferer

with the same complaint. I remain, your

Halifax, December 5th, 1872-

R. C. MARGESON & Co. Dear Sir :- Having been affected with Gravel and finding that the dooters could de nothing for me, I was induced to buy your medicine called Calculifuge, I am happy to say

HOWIN F. CUTLIP

R. C. MARGESON & Co.

humble servant,

Dear Sir -I feel constrained to make you my acknowledgement for benefit received, as follows: My horse was suffering from suppresion or the urinary organs and was, in consequence, suffering censiderable pain; I was recommended to try your Calculituge; I procured it and gave a strong dose, and am happy to say it had the desired effect in a complete

Yours, with regard, . B SMITHERS. Dec 18. lm.

COTTON WARP. PARKS

WHITE, BLUE, RED, ORANGE & GREEN.

Nos. 5s to 10s.

WARRANIFD to be full LENGTH and WEIGHT, STRONGER and BETTER in every respect than any other English or American

Beware of Imitations,

FOR SALE BY ALL DEALERS.

WM. PARKS & SON,

New Brunswick Cotton Mills, Dec. 18. ST JOHN, N. B.

Hats and Caps.

TIE have new on hand a full Stock of all kinds, including the NEWEST STYLES.

to which we invite the attention of our friends,

Wholesale and Retail.

Our prices are as lew as any in the city. Silk Hats made to order by Conformateur Measure, without extra charge. EVERETT BROTHERS,

100 Granville St.,

May 3.

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63 GRANVILLE ST., HALIFAX, N. S., Constantly on hand a good supply of Standard Religious, Theological and S. S. Books, Illustrated Papers, Reward Cards, Tracts, &c.,

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The prices are given, with the postage on

each when ordered by mail. Price. Postage. Personal Religion; Will You Consider it. Boardman .. \$0.25 \$0.06 God's Way of Pence. Bonar. 025 0 07 Pilgrim's Progress, Bunyan. 025 0.07 Way of Life. Hodge..... 025 0.07 Guide for Young Disciples. Pike..... 0.25 Saints' Rest. Baxter 0.25 Golden Treasury Bogatzky. 0 25 0.07 Rise and Progress of R ligion in the Soul. Doddridge ... 0.20 0 09 Early Religion. Pike..... 0 20 Early Piety. Pike..... 0.20 0.04 Call to the U.converted 0.03 Baxter 0.15 Anxious Inquirer. James... 0.06 0.08 Blood of Jesus..... Christian Hero: Life of Robert Annan..... 0 20

Come to Jesus, by Newmau Hall, 64 pages, The Sinner's Friend, by John Vine Hall, Postage on the two last at the rate of 8 cents

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