

The Christian Messenger.

HALIFAX, N.S., OCTOBER 28, 1874.

ALMANAC FOR NOVEMBER.

New Moon, Nov. 9th, 1h. 20m. morning. First Quarter, " 16th, 9h. 39m. afternoon. Full Moon, " 23d, 1h. 20m. afternoon. Last Quarter, " 30th, 2h. 15m. afternoon.

Table with columns for Day, SUN, MOON, High Tide, and Low Tide. Rows list days from 1st to 30th of November.

THE TIDES.—The column of the Moon's Southern 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 Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland, 30 minutes earlier, than at Halifax.

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 24 hours, and to the remainder add the time of rising next morning.

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FOR Coughs, Colds, Whooping Cough, Asthma, &c.

CERTIFICATES. This article has been known to give immediate relief in Chronic Coughs, which other Syrups have utterly failed, and for temporary coughs and colds it is invaluable, for which assertions abundant testimony can be produced.

To be had of the Manufacturer J. W. BETCHER, No. 27 CORNWALLIS STREET, HALIFAX, N. S.

HALIFAX, March 10th, 1873. J. W. BETCHER, Esq.

Dear Sir,—Having used a half dozen bottles of your valued Pectoral Mixture I find myself greatly relieved from a chronic cough, and pulmonary weakness which had been pressing upon my system for over a year, and would recommend it to all who are suffering from like complaints.

ST. JOHN'S, N. B., April 16th, 1874. This is to certify that I was attacked with a very severe cold combined with the Asthma very bad, so that I could not lie down or hardly breathe. One bottle of the cough medicine prepared by J. BETCHER, Esq., of Halifax, N. S., relieved me, and five bottles completely cured me so I have not been troubled with the Asthma since and I believe it to be the best medicine for Coughs, Colds, Asthma, &c., that there is made.

JOHN N. DEARBORN, Aug. 12. 1 yr.

CONSUMPTION CURED.

To the Editor of Christian Messenger. ESTEEMED FRIEND: Will you please inform your readers that I have a positive

CURE FOR CONSUMPTION and all disorders of the Throat and Lungs, and that by its use in my practice, I have cured hundreds of cases, and will give

\$1,000.00 for a case it will not benefit. Indeed so strong is my faith, I will send a Sample, free, to any sufferer addressing me.

Please show this letter to any one you know who is suffering from these diseases, and oblige, Faithfully Yours, DR. T. F. BURT, 67 William Street, New York. Aug. 5. 25 Aug.

Scientific.

HOW THE SUN MOVED A BRIDGE.—During the recent building of a bridge in Holland, one of the traverses, four hundred and sixty five feet long, was misplaced on the supports. It was an inch out of line, and the problem was how to replace it. Experiments proved that the iron-work expanded a small fraction of an inch for every degree of heat received. It was noticed that the night and day temperatures differed by about twenty five degrees and it was thought this might be made to move the bridge. In the morning one end of the pieces was bolted down securely and the other end was loosened. The contraction then dragged the whole mass the other way. For two days this experiment was repeated, and the desired place reached: We find no record that the heat of the sun has ever been employed in this way before; the contraction and expansion of iron bars by fire heat has frequently been used to move heavy weights over short distances. Broken walls and cracked roofs and arches have been brought in to place by simply heating iron rods till they expanded, then taking the slack by screws and nuts, and allowing contraction by cold to pull the wall or roof into place.

THE DANGER OF WET COAL.—The London Medical Record says people who prefer wetting the winter's store of coal, to lay the dust on putting it into their cellars do not generally know that they are laying up sore throat and other evils consequent upon the practice. But so it is said to be. Even the fire-damp which escapes from coal mines arises from the slow decomposition of coal at temperatures but little above that of the atmosphere, but under augmented pressure. By wetting a mass of fresh-broken coal and putting it in a warm cellar, the mass is heated to such a degree that carbureted and sulphureted hydrogen are given off for long periods of time and pervade the whole house. The liability of wet coal to mischievous results under such circumstances may be appreciated from the circumstance that there are several instances on record of spontaneous combustion of wet coal when stowed into the bunkers or holds of vessels. And from this cause, doubtless, many missing coal vessels have perished.

TO OBTAIN LIGHT WITHOUT THE USE OF MATCHES.—To obtain light instantly without the use of matches and without the danger of setting things on fire, take an oblong phial of the clearest glass; put into it a piece of phosphorus about the size of a pea upon which pour some olive oil, heated to the boiling point, filling the phial about one-third full, and then cork the phial tightly. To use it, remove the cork and allow the air to enter the phial, and then recork it. The whole empty space in the bottle will then become luminous, and the light obtained will be equal to that of a lamp. As soon as the light grows weak its power can be increased by opening the phial and allowing a fresh supply of air to enter. In winter it is sometimes necessary to heat the phial between the hands to increase the fluidity of the oil. Thus prepared, the phial may be used for six months. This contrivance is now used by the watchmen of Paris in all magazines where explosive or inflammable materials are stored.

THE VICISSITUDES OF MINING.—It is bad enough for miners to be deluged with cold water; but to be drenched with the hot article is rather trying. This is what recently happened to the Gould & Curry people in California. A large body of hot water was struck in the 1,465 foot level of the Consolidated Virginia mine. From this level a drift extends into the Gould & Curry, with a downward slope, and the water runs into the latter mine. The Gould & Curry pump is a foot in diameter, and it requires its utmost capacity to control the water.

A commission has been recently appointed in France to experiment with a steam-roarer termed the "Calliope," for signalling in foggy weather. It is said that it can be heard at a distance of ten miles in foul weather, and of over forty in fine. The present equinox was chosen by the commission for their experiments.

In an ordinary open fire grate, 75 per cent of the heat, resulting from the combustion of the fuel, goes up the chimney and is wasted, only 25 per cent being radiated into the apartment.

Agricultural.

THE FALL OF THE LEAF.

BY J. MONTGOMERY. Were I a trembling leaf On yonder stately tree, After a season gay and brief, Condemned to fade and flee: I should be loath to fall Beside the common way, Weltering in mire, and spurn'd by all Till trodden down to clay.

No! on the wings of air Might I be left to fly, I know not and I heed not where, A waif of earth and sky! Or flung upon the stream, Hurled like a fairy boat, As through the changes of a dream, To the world's end to float.

Who that hath ever been, Could bear to be no more? Yet who would tread again the scene, He trod through life before? On, with intense desire, Man's spirit will move on: It seems to die, yet like heaven's fire, It is not quenched, but gone.

A CARNIVOROUS PLANT.—A remarkable plant was exhibited to the British Association for the Advancement of Science, by Dr. Hooker, who gave the inaugural address as president of the biology section. The address was upon the subject of carnivorous plants, and Dr. Hooker explained and demonstrated by experiment some extraordinary discoveries of Mr. Darwin. Among other things, says a Liverpool paper, he showed a plant called "Dionaea," the leaves of which were open. A fly was captured and on reopening it was found that the fly was completely dissolved. A bit of beef was afterward consumed in the same way. The leaf was then fed with cheese, which disagreed with it horribly, and eventually killed it. Dr. Hooker explained that the plant's action was precisely similar to that of the human stomach. The leaf rejected a piece of wet chalk. Professor Huxley, in moving a vote of thanks, said these phenomena formed a wonderful problem. The plant had certainly a nervous system of its own.

SALT AS AN AID TO MANURE.—About five o'clock one fine summer's morning, I noticed that where the salt had attached to itself the dew, and formed on its surface a wet spot about the size of a sixpence, the ground being generally very dry. On our light lands it consolidates them and makes them especially firm and acceptable to the wheat plant, whose straw will stand firm and erect, although four and half to five feet long. It is also unfavorable to certain weeds by this consideration. It prevents the ravages of the wire worm. It is especially favorable to saline plants, such as mangolds, whose ashes contain fifty per cent. of salt. I never sow guano, except mixed with its own weight of salt. Like everything else, it has, I am sorry to say, greatly risen in price. I observe that all crops seem to thrive well on land near salt water, especially where the land is drained.—Western Rural.

A PERPETUAL HOT BED.—At Niederplanitz, near Swickan, in Saxony, a vast bed of coal has been burning for over three hundred years. The ground above this subterranean bed of fire has become thoroughly warmed by this time, and an ingenious gardener has utilized it by planting upon it a large nursery garden. Here he raises tropical plants of all kinds, with exotic fruits, which flourish with vigor and luxuriance in the open air that the best forcing house could not insure. His specialty is pine-apples, of which he has a great variety. There are subterranean fires in other parts of the world which have been utilized in a similar way. Would it not pay, in certain cases, to take a hint from these accidental examples of underground heating, and warm large plots of soil by means of steam pipes, running under the surface?—Rural Carolinian.

To take stains out of mattresses, apply a paste of soft soap and starch over the spots, and wash it in with a damp sponge; if not clean at first, put on another paste, and repeat this until the spots disappear.

Said young America to his papa: "Pa, be you a Britisher?" "Yes my son; I was born in England." Well, we whipped you," retorted the youngster.

A paper containing many fine points—a paper of needles.

BRITISH AMERICAN

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