The Messenger Almanac.

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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 Tormen-

tine, 2 hours and 11 minutes LATER than at Halifax. At Annapolis, St. John, N.B., and Portland Maine, 3 hours and 25 min-utes LATER, and at St. John's, Newfoundland, 20 minutes EARLIER, than at Halifax. At Charlottetown, 2 hours 56 minutes LATER. A Westport, 2 hours 54 minutes LATER. A Yarmouth, 2 hours 20 minutes planted and the young plant bloomed. his hind legs, only using his fore legs

FOR THE LENGTH OF THE DAY.-Add 12 hours to the time of the sun's setting, and rom 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.

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AGRICULTURE.

OVERWORKED FARMERS .-- Overwork is simply working after the strength has been reduced so low that it is painful or wearying to move. It is working after the nourishment in the blood has been mostly used up. It is like keeping a mill going when the stream is low, or when the water in the dam is nearly out. In the care of the muscles avoid colds and rheumatism. They take away the natural elasticity- which always gives so much pleasure and substitute a worn-out, tired, exhausted feeling which borders on pain and is often more difficult to bear. How very careful the owner of a fine horse is that it shall not take cold! He knows if it does, it will founder, and after this it will never be a good stepper. Our whole country is full of foundered men and women, who are stiff, lame, rheumatic, old in feeling, inelastic. Most of them might have preserved their elasticity to old age if they had taken | tribution of three slabs of sandstone proper care of themselves. As a rule farmers do not bathe as much as they should. The daily bath is to them name shall not be mentioned in print, quit as important as to any class. It requires but a few moments to take it, and when followed by friction it fortifies the skin against colds.

Guide says: "The new roses are or was, in ancient times, a reptile of mostly originated in Europe by per- enormous size, as the prints of his feet sons who make it a special study. After on the slab presented to the Museum carefully hybridizing different roses, show. The theory of the geologists is ing their desirable qualities, the seed is like a frog; that he walked mostly on Most of these prove of no special merit, when it was necessary for him to drop but occasionally a good one is found; it down to rest. It is estimated that he and if still believed valuable is offered appearance of man on this earth. for approval before the Rose Congress which have received certificates, are in gold."

THE POTTERY TREE.—Among the various ecomomic products of the vegetables kingdom, scarcely any hold a more important place than barks, whether for medicinal, manufacturing, or other purposes. The structure and very similar, being composed of cellular and fibrous tissue. The cell contents of these tissues, however, vary much in different plants; and, for this reason, we have fibrous er soft, woody, hard, and even stony barks. What we wish to refer to more particularly at present is a remarkable example of the harder and more silicious barks, which is to be found in the "Pottery Tree" of feet before branching; its diameter is from 12 to 15 inches; and its wood is exceedingly hard from containing much flinty matter. Although the wood of the tree is exceedingly sound and durable, the great value of the tree to the native exists in the bark for a purpose which, to say the least, is a novel one in the application of bark-that of the manufacture of pottery. The Indians employed in the manufacture of pottery from this maerial always keep a stock of it on hand in their huts for the purpose of drying and seasoning it, as it then burns more with more ease than when fresh. In and mixed with the purest clay that can be obtained from the beds of the rivers; this kind being preferred, as it takes up a larger quantity of the ash, and thus produces a stronger kind of ware. Though the proportions of ash and clay are varied at the will of the

but when dry, it is very brittle and flint like, and often difficult to break. In the inner bark the flint is deposited in a very regular manner, the particles being straight and giving off branches at right angles; that of the porous cells of the bark, however, is very much contorted, and ramifies in all directions. In the best varieties of the tree, those growing in rich and dry soil, the silex can be readily detected by the naked eye; but to test the quality of the various kinds of bark, the natives burn i and than try its strength between their fingers; if it breaks easily it is considered of little value, but if it requires mortar and pestal to break, its quality is pronounced good.

SCIENCE.

A REPTILE WHICH LIVED TWELVE MILLION YEARS AGO.—The American Museum of Natural History, of New York, has just been enriched by a contaken from the Connecticut Valley. The donor of the slabs desires that his but the specimens are said to have come from Turner's Falls, Mass. On two of the slabs are impressed large foot prints of some amphibious animal. Professor Hitchcock names the animal the NEW VARIETIES .- The Rose Culture | Brontozoum giganteum. The beast is, with the view of improving or combin- that this monster was fermed something is tested thoroughly for several years, lived about 12,500,000 years before the 82 & 84 Barrington Street, Halifax, N.S.

The slab is covered with the marks of France, or the Royal Horticultural of the feet of some insect which is un-Society of England. Here the judg- known to the present generation. From ment is so severe that but few roses | the foot prints the geologists have deis at liberty to place it on the market on the land they survive for but from with the official endersement of the one to twenty-four hours. The theory Society. Plants of the new varieties, regarding these foot prints is that the insect found himself on dry land, with the usually sold for more than their weight | tide receding, and in attempting to gain | the water he left these marks upon the sand, which are presumed to teach the nineteenth century something of the history of the past.—Scien. American.

CEMENT FOR CAST IRON.-Five parts of sulphur, two parts of graphite, and two parts of iren filings, are meltformation of all barks are essentially ed together, taking care that the sulphur dees not catch fire. The parts, previously warmed, are covered with the cement reduced to a pasty consistence on a fire, and firmly pressed together. This cement, it is said, is very well adapted to fill up leaks in cast iron

season it was remarkable for its solidity New Germany-Adam E. Durland. and picturesque appearance.

The Medical Faculty of the Univertery the ashes of the bark are powdered sity of Zurich have conferred the degree of dector on Fraulein Draya Sjoeic, a young lady from Servia, and Countess Vilma Hugonai, of Hungary, both of whom passed successful examinatisns, and delivered inaugural dissertations of exceptional merit.

mental articles, many of which are which has been proved, after the expepainted and glazed. These articles are rience of many years, to be the least all very durable, and are able to stand exposed to the eruptions. The work is almost any amount of heat; they are to be commenced immediately, and it consequently much used by the natives is believed that it will come into use for boiling eggs, heating milk, and in- during the present year. A sufficient deed for culinary purposes generally. number of carriages are being built to The bark seldom grows more than half convey 600 persons during the day. an inch thick and is covered with a The line is to be constructed upon an skin or epidermis; when fresh, it cuts iron bridge, built after a patented somewhat similar to a soft sandstene, system.

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They have had such cold weather out west that when the mercury gets up to zero they feel comfortable.

In only one season in five does an ice bridge form at Niagara Fall: This season it was remarkable for its solidity as a cord of the same wood green, from one-half to three-fourths of the heat goes off latent and useless in the evaporating sap or water. A solid foot of green elm wood weighs 60 to 65 pounds, of which 30 to 35 pounds is sap or water.

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TRAINS leave Halifax :-At 8.25 a.m. (Express) for St. John,&c.
At 1.30 p. m., (Express) for Riviere du
Loup, Montreal, &c.
At 5.30 p. m. (Express) for St John and
intermediate stations.

WILL ARRIVE :-At 8.20 p. m., (Express) from St. John Pictou, &c.

At 9.15 a. m., (Express) from St. John. At 1.30 p. m., (Express) from Riviere du Loup, Montreal, &c. Jan. 8, 1879.

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PARRSBOROUGH RAILWAY.

Connects with Intercolonial. Leaves Parrsborough at 9.30 Arrives at Spring Hill at 12.20 p. m. Leaves Spring Hill at 3.20 p. m. Arrives at Parrsborough at 6.00 p. m. Jan. 8. 1879.

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1879 -- Winter Arrangement -- 1879.

TRAINS LEAVE HALIFAX 8.00 a. m.-(Express) Wednesdays and Saturdays. 8.00 a. m.-(Accommodation) Mondays, Tuesdays, Thursdays and Fri-

3.00 p. m.—Accommodation daily. Arrive at Windsor-9.35 a.m., 11.15 a.m.

5.40 p. m. LEAVE WINDSOR: 8.35 a. m.—Accommodation daily. 1.45 p. m.—(Accommodation) Mondays,

Tuesdays, Thursdays & Fridays. 6.35 p. m.-(Express) Wednesdays and Saturday. Arrive at Halifax 11.32 a. m. 4.45 p.m, 8,35 p. m. Feb. 26, 1879.

Railway.

Winter Arrangement, Com-

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| Miles. | GOING | WEST. | Express Wed. and Saturdays. | Pass. & Frgt. Mons., Tues., Thurs. & Fri. | Preight, Tues., Thu., |
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| 59 66 | Annapolis, Wilmot, Kentville, do Wolfville. Windsor, | Leave do Arrive Leave do Arrive | 7 00 7 27 8 30 | 7 15 9 15 11 15 11 40 12 10 1 50 | P. M. 2 26 3 5 5 06 5 16 5 36 6 36 |

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