

Scientific, &c.,

THE EDITOR.

With fingers weary and tired, With eyelids heavy and red, An editor sat in his "easy chair,"

Write—write—write! Till the brain begins to soften; Write—write—write! Early, late, and often.

With fingers weary and tired, With eyelids heavy and red, Our editor left his "easy chair,"

REMARKABLE GAS WELLS IN OHIO.

Mr. J. S. Newberry, in the American Chemist, writes as follows: "In June, 1867, I visited two remarkable gas wells, bored by Mr. Peter Niff, in the valley of Kokosing, a few miles east of Gambier (where Kenyon College is located) in Knox county, Ohio.

"It will probably add to the interest with which it will be read, to say that the wells described below have been flowing gas in apparently undiminished volume to the present time.

"From Gambier our route lay down the valley of Kokosing, some twenty miles, to the junction of that stream with the Walholding. Within this interval the valley has nearly an east and west course, and is excavated in 'Waverly' (lower carboniferous) formation in the direction of the dip of the strata, which is here, eastwardly about twenty-two feet to the mile.

"The gas from these wells seems to be pure, having no other smell than an agreeable one of naphtha, and has high illuminating qualities. Its volume is sufficient to light a large city, and, if differently situated, the value of the material thus wasted, for lighting or heating, would be greater than the product of the best oil-well known."

SIZE OF THE SUN.

Let the reader consider a terrestrial globe three inches in diameter, and search out, on that globe, the tiny triangular speck which represents Great Britain. Then let him endeavor to picture the town in which he lives as represented by the minutest pin-mark that could possibly be made upon this speck.

Such is the body which sways the motions of the solar system. The largest of his family, the giant Jupiter, though of dimensions which dwarf those of the earth or Venus almost to nothingness, would yet only be represented by a thirty-two-inch globe, on the scale which gives to the sun the enormous volume I have spoken of.

Uranus and Neptune would be little more than a foot in diameter, and all the minor planets would be less than the three-inch earth. It will thus be seen that the sun is a worthy centre of the great scheme he sways, even when we merely regard his dimensions.

The sun outweighs seven hundred and forty times the combined mass of all the planets which circle round him; so that when we regard the energy of his attraction, we still find him a worthy ruler of the planetary scheme.

COAL PIT FIRE.

The Bank colliery, near Rotherham, on the property of Earl Fitzwilliam, England, had been on fire for a century past, when the superintendent, Mr. Cooper, conceived the idea of building a wall to shut the fire into one of the workings. The plan was carried out, although the wall had to be commenced by workmen creeping on their hands and knees through dense, stifling smoke.

COLORS FIRES.

A member of the German artillery corps gives the following formulae for making colored fires:

- 1. White light: 8 parts saltpeter, 2 parts sulphur, 2 parts antimony. 2. Red light: 20 parts nitrate of strontia, 5 parts chlorate of potash, 6 1/2 parts sulphur, 1 part charcoal.

IMITATION OF HUMAN HAIR.

In a recent article upon the trade in human hair, it is stated that a patent has recently been taken out for converting goat's hair into hair for ladies use; and that the experiment is so successful as to render it almost impossible to distinguish the real article from the imitation.

MICROSCOPIC PHOTOGRAPHY.

A further proof of the value of this invention is shown by the letter of a French correspondent, which says that a pigeon lately arrived in Paris, bearing dispatches, which when printed, filled four columns of a newspaper; and also private communications to the number of 25,000.

NEW PLASTIC MATERIAL.

A beautiful plastic substance can be prepared by mixing colloidum with phosphate of lime. The phosphate should be pure, or the color of the compound will be unsatisfactory. On setting, the mass is found to be hard, and susceptible of a very fine polish.

BRITISH AMERICAN BOOK AND TRACT DEPOSITORY.

66 GRANVILLE STREET, HALIFAX, N. S., Dec. 23rd, 1870. GIFT-BOOKS FOR THE CHRISTMAS HOLIDAYS.

THE man who was drowned with applause came out very dry.

MESSENGER ALMANACK.

APRIL, 1871.

Full Moon, April 5th, 10h. 5m. morning. Last Quarter, " 12th, 1h. 37m. morning. New Moon, " 19th, 2h. 49m. afternoon. First Quarter, " 27th, 7h. 33m. afternoon.

Table with columns: Day, SUN. Rise, Sets, MOON. Rise, Sets, High Tide at Halifax. Rows for days 1 to 30.

THE TIDES.—The column of the Moon's Southing gives the time of high water at Parisboro', 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 20 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 12 hours, and to the remainder add the time of rising next morning.

NEW MUSIC BOOKS. THE VOCALIST. LINTON'S INDUCTIVE METHOD. Musical Analysis and Teacher's Manual.

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

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