

Oyster shells are utilized by being buried to life. Distilled oxygen sustains life; pure oxygen destroys it. River mud is mixed with chalk and burned and ground to make Portland cement.

The air of London during a fog is found to contain a large excess of carbonic acid over the normal proportion.

The presence or absence of bacteria in milk has little or no influence, says Professor Mayer, on the action of the ferment of rennet.

The presence of a plaster of the interior is said to be making provision for the widows and children of men who have died or been wounded while making scientific observations.

The newly completed observatory on Mount Etna is 9,000 feet above the sea-level, and the clearness of the atmosphere at that height leads astronomers to expect some important observations.

Colonel Beaumont believes that with the machinery designed by himself and Captain Taylor the machine will soon be ready for use. He says that the apparatus is now heading at the rate of twelve yards per day of seven-foot run.

Mr. John P. Gibson, of Hexam, England, lately described how he succeeded in taking the photograph of a flash of lightning. He used a camera with a lens of Swan's plates, backed with red paper. The lens employed was a half inch rapid symmetrical, with the largest stop open.

Fettan, a village of the Grisons, in the Valley of the Inn, is menaced with ruin, owing to the sinking of the ancient castle. The ruins of the castle are the remains of the many recent evidences of the continuous operation of physical and mechanical forces in leveling the earth's surface.

Scenes in a Japanese Theater. Professor Morse thus describes a Japanese theater as he saw it. The first time I attended one of these theaters I went at 10 o'clock in the morning. The theater was a large hall, and other matters of importance to attend to during the day, but for once in my life I cut my lecture and never left the theater until the end of the performance.

The magnetic needle. A condensed explanation is given of the magnetic pole of the earth and of the magnetic pole of the earth. The axis of rotation makes an angle of about 23° with the line joining the former.

What a Volcano Can Do. Cotopaxi, in 1833, threw its fiery rockets 3,000 feet above its crater, while in 1854, the blazing mass, struggling in the agony of destruction, threw its voice as loud as at a distance of more than 600 miles.

On a Mexican Farm. We are in the midst of a level valley, with gently sloping mountains on all the boundaries. The leading crops are maize, barley and sugar. The maize is sown in the month of May, and the sugar is sown in the month of June.

A Curious Legend. This curious legend is recorded by the Brazilian writers. It is a story of a man who was killed by a bear and buried in a cave. The bear was so large that it could not be carried away, and the man's body was found in the cave many years later.

Sax's Sorrows. The bereavements which John G. Sax, the poet, has suffered in the loss of those whom he held most dear, as they were, have tended to increase his grief.

A Doctor on Vaccination. "People make a mistake," says a physician employed in a New York city hospital in which are treated many of the most dangerous cases of smallpox.

Pinck and Log Life. The force of will is a potent element in determining longevity. This single point may be granted without argument, that of two men, every way alike and similarly circumstanced, the one who has the greater courage or grit will live the longer.

A Ferret and Laconic Prayer. During the session of 1858, when the Iowa Legislature was discussing the State bank bill, and a prohibitory liquor law, a member of the legislature, who had become historical, was offered before that body.

Pea Pictures of Jay Gould. "The country is full of the doings of this great man," says a New York paper. "He is a man of great power and influence, and his doings are of great importance to the people of this country."

A Surprise Party Surprised. There was a "surprise party" last Saturday night in the city of New York. The party was given by a man who was a great favorite of the people, and it was a very successful one.

FRANCIS ISLANDS—Sweeten a pint of thick cream with sugar, grate it in the peol of one lemon, whip it to a froth, pour a pint of thick cream into a china bowl, lay upon it the cream slices over it lightly, then pour the whipped cream on top and pour what remains into the bottom of the bowl. Garnish the rim with sweetcases.

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FRED KURTZ, Editor and Proprietor.

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How to Live.

He liveth long who liveth well. All other life is short and vain. He liveth longest who liveth well. He liveth longest who liveth well. He liveth longest who liveth well. He liveth longest who liveth well.

The Bitter With the Sweet.

"I do wish somebody would leave me a legacy," said Lena, "or I could draw something out of the bank. I'm sure you drew a clear case out of the church fund," interpolated Anita. "I don't think riches are half so interesting as poverty itself," said Anita. "We get so used to the excitement of life than Mrs. Grady for instance."

blind to remember that such things as youth and love existed. That Paul Spencer, with his poetic inspirations, his blue eyes, his wistful look, his experience and popularity, should be for a word with a poverty-stricken governess, should be upon her will and court her presence, captivated Patty's imagination and touched her heart. "You would sit over the embers of the school-room fire, and bewitched her with stories from the opera and sang their most love-lorn airs in his fine tenor till the tears stood in her eyes, and she would bring his violin to odd moments and improvise some tender melody to be played to her."

WISE WORDS.

Belief is not in our power, but truthfulness is. The greatest attack is safer than their protection. True wisdom, in general, consists in energetic determination. Devote each day to the object then in time, and the evening will find something done.

FACTS AND COMMENTS.

In 1777 considerable interest was manifested in an announcement that six staves had been completed in Philadelphia. The annual product of the stove foundries in that city is now valued at \$1,000,000, and the industry supports about 12,000 people. The value in round millions of the cereal crop of 1881, according to the estimates of the department at Washington, are: Corn, \$759,000,000; wheat, \$452,000,000; oats, \$193,000,000; rye, \$19,000,000; barley, \$33,000,000; buckwheat, \$8,000,000; Total, \$1,415,000,000, against \$1,311,000,000 in 1880.

SUNDAY READING.

A Happy Traveller. It is related by travellers, as an instance of how little the emotions of Eastern nations have changed during many hundreds of years, that in the fields of Palestine the very same words may be heard now as in the days of Boaz and Ruth. When the master enters the harvest field, he salutes his reapers just as Boaz did. "God be with you." And the peasants respond always in the same word: "The Lord be with thee."

THE INDIAN'S CONFESSION.

A Mystery of the Northwest cleared up. Canadian papers give the following account of a mystery which has been cleared up after a lapse of fifty years. An old and well known Indian, who has just died, before his death made a confession which entirely cleared up a full half a century.

HEALTH HINTS.

Ten kinds of fruit of marvellous acid and acid will kill out any number of worms or vermin. Scrape around the corn and put the acid around it a few times, and then you can take a pin and lift it out by the roots. Put a little grease in it when it is removed. The following is an excellent and safe remedy for children's colic: Take onions, slice thin and sprinkle with sugar over them, put in the oven and simmer until the juice is thoroughly mixed with the sugar.