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SCIENTIFIC AND SANITARY.

Says a recent authority, "Were half the energy which is being spent in the almost hopeless task of searching for a specific cure for tuberculosis devoted to its extermination, the accomplishment would be secured."

Cocain may be tested for thus: Add to the solution to be examined a drop of a solution of potassium bichromate. If cocain be present a precipitate will form which vanishes rapidly, and on warming, the liquid turns green and gives off fumes having a peculiar odor—that of benzoic acid.

M. Gustave Hermite, who conducted meteorological explorations with small balloons up to a height of ten miles last year, reports that the rate of temperature decrease with ascent is much more rapid in free air than when observations are taken from mountain-tops at various elevations.

A large and powerful light has been invented by Herr Ludwig Durr, of Bremen, which is produced by evaporating and gasifying petroleum. The light is white and has a candle-power of from 3,500 to 12,000, with an hourly consumption of less than a quart of oil to each thousand candle-power per hour.

A late theory of catching cold is that when one enters a cold room, after being heated, the bacteria in the room flock to the warm body and enter it through the open pores of the skin. The author of the theory asserts that he has proved by experiment that bacteria in the neighborhood of a warm body move toward it.

The bayonets of marines on board British ships-of-war having frequently become highly magnetized through proximity to dynamos, and thus affected the ships' compasses when the wearers passed them, sentries have been ordered not to wear side arms when on duty in the dynamo flats. This is expected to overcome the difficulty.

Two boats of aluminum have lately been built in France. One is a ten ton yacht which is being fitted for service next season. The other is a ferry-boat thirty-three feet long, to run in Central Africa. The latter is made in twenty-four pieces, which can be bolted together, india-rubber being inserted in all joints so as to make the vessel watertight.

The purification of sewage at Havre, France, by electrolyzed sea-water, is reported to be so successful that when the refuse is drained into the street gutters, not only is there complete absence of a disagreeable odor, but the gutters, which formerly were black and soiled, have been beautifully bleached, even the curbs and the flagstones becoming nearly white.

According to the London *Telegraph*, recent experiments at Woolwich show that cordite is superior to gunpowder for naval guns. A six-inch gun that with 29 pounds 12 ounces of powder gave a velocity of 1,890 feet per second with a strain of 15 tons per square inch, gave with 14 pounds 3 ounces of cordite 2,274 feet per second with a pressure of 15.2 tons, and after 250 rounds had been fired there were no signs of erosion.

One of the most noteworthy and striking facts of animal life is its adaptation to the conditions of its environment. Study any animals or group of animals, and it will be seen that its leading physical characteristics are in exact adaptation to its habits and conditions. A very interesting illustration is afforded by the torch-fish (*Lucifer*). The torch-fish is a deep-sea fish carrying on his nose an organ which he can illuminate with a phosphorescent light or extinguish at pleasure. *L. Lucifer* does not use his lantern to guide him on his pathless course in the dark depths of ocean, or to enable him to look around him; but, when meal-time comes, he lights up to attract smaller fishes, which, mistaking the lantern for a phosphorescent insect, dart straight for it, only to find their way into the capacious jaws of *L. Lucifer*. The mode in which the lantern is lighted and extinguished is not yet clearly understood.

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In all the affairs of life, social as well as political, courtesies of a small and trivial character are the ones which strike deepest to the grateful and appreciative heart.—*Henry Clay*.

"If all the gold in mint or bank,
All earthly things that men call wealth
Were mine, with every titled rank,
I'd give them all for precious health."

Thus in anguish wrote a lady teacher to a near friend, telling of pitiless headache, of smarting pain, of pain in back and loins, of dejection, weakness and nervous, feverish unrest. The friend knew both causes and cure and flashed back the answer, "Take Dr. Pierce's Favorite Prescription." The distressed teacher obeyed, was restored to perfect health, and her daily duties once more became a daily pleasure. For lady teachers, sales-ladies and others kept long standing, or broken down by exhausting work, the "Prescription" is a most potent restorative tonic, and a certain cure for all female weakness. Guaranteed to cure in every case or money returned. See printed guarantee around each bottle.

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Your manners will depend very much upon the quality of what you frequently think on; for the soul is tinged and colored with the complexion of thought.—*Marcus Aurelius*.

It is a notable circumstance that mothers who are themselves open to severe comments as to their moral character, are generally most solicitous as to the virtuous behavior of their daughters.—*Rivarol*.

JAMES E. LESLIE, Richmond street, Toronto, writes:—"It affords me great pleasure to attest to the benefit I derived from your Guaranteed Acetic Cure in a case of Pleurisy. It was decidedly effectual; nothing more need be said. I have also recommended the Acid Cure system of treatment to many of my friends, and in no case has it failed. You are at liberty to give this certificate publication."

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