

Mechanical Vibration. The tendency of mechanical vibration to retard rusting is exemplified in the condition of two lines of railway leading out of Burrachee, an important port of British India, on the Arabian sea.

Boiler Explosions. The theories of steam boiler explosions are thoroughly discussed in an able paper on the subject recently published by Dr. Ferdinand Fischer in Germany.

The English Channel Tunnel. It really seems possible that the much talked of tunnel between England and France may become a reality. At least the thing is to be tried.

A New and Powerful Explosive. The account of trials of vigoro, a newly discovered explosive, at Stockholm, states that a charge of about eight ounces, made up in five cartridges, and deposited in an excavation, raised a block of stone of 163 cubic feet.

Dangers of Ruby-Colored Merino. A case of poisoning by arsenious acid contained in a ruby-colored merino frock has recently occurred in England.

Manufacture of Arsenic. The quantity of arsenic annually produced in England is upward of five thousand tons, and more than one-third of the entire product comes from a single locality—the Devon Great Consols Mine.

Tar as a Dressing for Wounds. A memoir on the use of Norwegian tar as a dressing for wounds, has been presented to the French Academy by M. Serasin, who mentions a number of cases in which the treatment has been successfully adopted.

Fresh Air in Typhoid Fever. Dr. Hampton, of Paris, has lately issued a pamphlet containing a history of several remarkable cases of typhoid fever. The doctor regards the disease as a sort of perilytic or alyptic of all the vital functions, occasioned by breathing a poisonous atmosphere.

The Congo Negroes. A paper recently communicated by Mr. Watson Smith to the Literary and Philosophical Society of Manchester gives some interesting particulars respecting the negroes of the neighborhood of Congo, obtained from letters sent home from the west coast of Africa by Mr. E. C. Phillips.

in bed by artificial means, the free breathing of pure, fresh air will at all times keep up the natural animal heat. In typhus fever, complications of all kinds, of the lungs or other organs, simply render the access of fresh air more urgent and essential.

Astronomy. A series of valuable observations on solar radiation in Great Britain has been made during the past five years by Mr. F. W. Stow and a number of his friends. The results show a difference in the power of the sun's rays inland and on the sea-shore.

Venus' Atmosphere. The atmosphere of the planet Venus was distinctly visible during the recent transit, and was seen by the astronomical party stationed near Thebes, in Egypt, as a pale white circle around a part of the planet's edge, totally different from the brilliant sunlight.

Coal in the Straits of Magellan. An important discovery, if correctly represented, has lately been made in the opening of a rich coal mine in the southern part of Patagonia, near Brunswick Island, in the Straits of Magellan.

An Interesting Discovery. M. Sars, son of the late distinguished Prof. Michael Sars, has recently contributed an interesting discovery to biological science. It is the occurrence of a dimorphic form, with alternating generations, in a fresh-water protozoan, a species of the genus Paramecium.

History and Geography. The origin of the term Ute is as follows: U is the term signifying arrow; U-too-meap, arrow land. The region of country bordering on Utah Lake is called U-too-meap because of the great number of reeds growing there.

Sea and Mountain Air. Prof. Berke, of Marburg, has concluded, from investigations with regard to the comparative influence of sea and mountain air on the system, that irritable, nervous, excitable people will derive benefit from the mountain air; while persons with good digestion, who are suffering from overwork, will be improved by a sojourn at the sea-side.

The Equinoctial. To an observer at the North Pole the equinoctial would be a great circle in the heavens, exactly coincident with the horizon. To an observer in 45 degrees north latitude the equinoctial would appear an arch in the heavens, 45 degrees above his horizon directly south, and coincident with his horizon at the east and west points.

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Character of the natives, and on their language, which belongs to the Bantu group. It is notable that the children are placed under care, not of their father and mother, but of the mother's eldest brother.

The Libyan Desert. At a recent meeting of the Munich Academy of Sciences, it was stated that the desert of Libya would prove a valuable health resort. During the months of January, February and March, Prof. Zittel made a series of experiments by which he found that the air of this locality contains more ozone than that of the oases of the Nile valley.

Mr. Lamont, Director of the Observatory at Munich, says that many cases are known where magnetic disturbances coincide with earthquakes, and states that, on April 18, he by chance saw the needle of the declination instrument receive a sudden jerk, the oscillations continuing for some time.

Our surnames are modern. The pagan converts to Christianity dropped their Pagan for Bible names, and whole companies of Marys, Marthas, Johns and Peters were baptized at once. From this we can readily see the confusion of generally when one particular John felt a very particular preference for his particular lady Mary love, and called to see her at the house of many other Marys.

Clocks Stopped. The details of the terrible earthquake which occurred in Hong Kong in September, 1885, are many facts of scientific interest. One of them is the simultaneous stopping of seven pendulum clocks, shortly after 2 o'clock in the morning, the time of the storm was at its height.

Sonnambulist Extraordinary. Sonnambulists have performed many curious feats and have accomplished dangerous acts at times without fatal results; but it remained for a small boy traveling from Milwaukee to Minneapolis to do, sleeping, what no one ever did before.

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The Damburian, issued under the auspices of G. E. A. McGraw, late editor of the News, is out, and is an admirable paper, bright and pearly, and with a flavor of real journalism.

Names. The ancient Hebrews, Egyptians, Assyrians, Babylonians, Persians, Greeks, all used one name for each individual. Nor did the rich recesses of the name-name yield its treasures till broken into by the numerous hosts of increasing population, all clamoring for a name.

The Romans made some advancement in names, and gave to their commonwealth a division into clans or gentes. The gens were then divided into families, and the families into individuals, each of whom had three names: the praenomen, or first name, which marked the individual; the nomen, or middle name, which marked the gens, and the cognomen, the family.

For several centuries little is known about surnames. Some date their origin from the Norman conquest, a plausible theory to American aristocrats, who seem satisfied if their stock and "family" goes as far back as William the Conqueror, or even a taint and discolored "blood" be traced in that English channel which William crossed.

The Saxons made their surnames by adding "ing" to the father's name, as Whiting, Browning; also from place of residence, occupation—hence, Lee, Moore, Hill, Weaver, Cooper, etc. In the eleventh century the Normans began to transfer their surnames to their descendants.

Several neighbors were aroused, an officer came up from the station, and a search of the premises was made. Not so much as a track in the snow was found, and the officer put on an injured look and said to Mr. Brasser:

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Which must have been somewhat queer. The incident is one of the most remarkable in the history of sonnambulism; and if that boy is not always thankful that he struck a snow drift instead of a rail fence, he'll be an irreligious individual.

Man is unfortunate enough to be an omnivorous animal, and has at various periods and in various countries consumed almost everything that grows, swims, flies, runs, or crawls. More than this, he has eaten, under certain conditions, mineral matter—the clay eaters of South America having found great comfort in the consumption of an unctuous earth.

The man who was so successful in his search for the missing boy, was a man of some means, and had a large family. He had a large family, and was a man of some means. He had a large family, and was a man of some means.

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Brasser's Son Claudius. The fun he made for a neighbor's boy—Disturbing the Old Folks—A Good Shot—Smashing Glass and Arousing a Policeman.

Mr. Brasser, who lives on Ninth avenue, has a son about twelve years old named Claudius, and the other allowing this boy received permission to even a neighbor's boy to stay all night with him.

"You'll see more fun around here tonight than would lie on a ten-acre lot!" From a closet they brought out a cast-off suit of Brasser's clothes, stuffed them with whatever came handy, tied the mask and an old straw-hat on for a head, and while one boy was carefully raising the window the other was tying the clothes-line around the "man."

"Great bottles! but it's a robber!" and he jumped into bed. "Theodorius Brasser, are you a fool!" screamed the wife as he monopolized the bedclothes to cover up his head.

The man was there, face close to the glass, and he had such a malignant expression of countenance that Brasser jumped back with a cry of alarm.

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Ordinary baggage, and it could then be carried either by express or as valuable freight. The action of the passenger in delivering it to the company as ordinary personal baggage was in effect a species of legal fraud, and for this reason the company was relieved from all responsibility in the matter.

Compulsory Education. England approves the compulsory education she has recently attained, although many among the parents and employers of the children endeavor to evade it.

The strong box of the Shah of Persia consists of a small room 20x14 feet. Here, spread upon carpets, lie jewels valued at \$7,000,000. Chief among them is the Kaianian crown, shaped like a flower pot, and topped by an uncut ruby as large as a hen's egg, and supposed to have come from Siam.

Cattle in Central Africa. The Baris of Central Africa own immense herds of cattle, but will suffer prolonged abstinence from meat rather than sacrifice one of their animals for the sake of its flesh.

Mr. F. Seymour Hayden, in a letter to the London Times, meets the objections to burial in wooden coffins and to cremation, by suggesting that burial should be made without coffins, or that, if cases of any kind are used, they should be constructed so as not to enclose the body from the action of the earth.

In 1849 Mr. James F. Stuart, of Newburyport, Mass., went to San Francisco, Cal., and embarked in business, and was very successful till the great fire of 1852, when he lost nearly everything.