



SCIENCE AND INDUSTRY.

Water power is derived from the evaporation of water by the sun's heat, and its deposition on the highlands in the form of snow or rain.

Coral does not grow below 40 fathoms. Below 100 fathoms indicates either that the bottom has come down or it has fallen from the 40-fathom depth.

French and Belgian capitalists are to construct large alkali works near the newly discovered rock salt deposits at Pola, in Central Asia.

German excavations in the island of Santoria have now been completed. Dr. Wilton von Goertrigen has identified the city on the slopes of Mesa Vouno as the ancient Thera, and the remains on the seashore near the modern town as those of the city of Oea.

Mr. M'Liver, director of the Great Western railway of England, making a presentation at Liverpool the other day to the district goods manager, Mr. Steele, said the Great Western had 2,500 miles of rails, employing 52,000 men, and a weekly revenue of £320,000, and a subscribed capital of over £80,000,000, all yielding dividends.

According to Engineering, some recent researches by Capt. Abney show that the light of the starry sky is to that of the full moon about as 1:44,000. The latter is usually considered to be about 1:100,000 to that of the sun at noon, so that we receive over 100,000 times as much light from the stars, taking both hemispheres into consideration.

Lucium, a new element discovered by M. P. Barriere in monazite sand, dissolves in sulphuric, nitric or acetic acid, forming soluble salts, either white or slightly rose tinted. Its atomic weight is calculated as 107. The element was supposed to use the substance for an incandescent gaslight on the Welsbach principle.

NEW YORK'S SANITATION.

The Infant Mortality During the Hot Spell Was Remarkably Low. The appeal to the public conscience told at last. With that attack in the churches, which has not been without blame, the new era began. That year (1879) a public competition evolved the present type of tenement, far from perfect, but an immense improvement on the wicked old barracks. The sanitary reforms got the upper hand and the work told. The death rate came down slowly. It is to-day, at the end of 30 years, quite 25 per cent. lower than when the health department was organized, and New York has been redeemed from a reproach for which there was no excuse, for no city in the world has such natural opportunities for good sanitation.

The immense stride it has taken was measured by the mortality during the unprecedented hot spell of last summer. It was never so great, as indeed, there never was an emergency like it since records were kept. During the ten days it lasted the heat claim of many more victims than the last cholera epidemic during its whole season. Yet, beyond those killed by the direct effects of the sun, the mortality was singularly low; the infant mortality—ever the finger that points unerringly to the sore spots in a community, if any there be—was so noticeably low as to cause a feeling almost of exultation among the sanitary officials. And it was shown, more plainly than in the last cholera epidemic, that the population yielded more slowly to the heat. Where it had taken two or three days to reach the climax of sunstroke, it now took five. The people, better housed, better fed, and breathing clean air in the clean streets, had acquired a power of resistance to which the past had no parallel. The sanitarians had proved their case—Jacob Riis, in Century.

A Breathing Well. In San Luis Obispo county, Cal., there is a gas well whose strange conduct is described by a correspondent. The well is 6 inches in diameter and 350 feet deep. During settled weather it flows out gas for three hours, and then sucks in air for an equal period of time, and this regular breathing continues without interruption until a change of weather. Before a storm, when the barometer is falling, the time during which the well expires gas is greatly increased, and sometimes the outbreathing continues for 24 hours. After the passage of the storm, and with the barometer rising, the inhalation of air is similarly prolonged. If the air is shut off when an inhalation is about to take place, the gas afterward ceases to flow, so that the well must be allowed to perform its regular breathing in order to continue its work. An automatic valve has been placed at the mouth of the well to permit the ingress of air, and when the opening is restricted the inward suction causes a loud sound, as if the well served for nostrils to a subterranean monster afflicted with snoring.—Science.

Embarked Spain. The war between Chili and Peru is already ancient history, but a traveler who lately returned from South America states that on the battlefield of Tarapaca the dead are still lying just as they fell. There were 1,000 of them, and nearly 1,000 horses are also left unburied. It never rains at Tarapaca, and the sun has dried the corpses, and the nitrate in the soil has preserved them, and up on the plateau, 5,000 mummies lie in ghastly confusion with the broken swords and bayonets as fresh-looking as the day of the memorable fight.—N. Y. Ledger.

Strong Again! New Life, New Strength, Dr. H. C. Wigor.

THE ANAPHRODISIAC!

From PROF. DR. RICHARD F. LATHROP'S scientific method of restoring strength under guarantee, and will bring back your lost powers and stop for ever the dangerous drain on your system. They are quick, create a healthy digestion, purify the blood, firm muscles, raise strength, steady nerves and clear brain. Imported direct from Paris. Price per box, 50 cents. Sold by all respectable druggists. Mail orders from any town, please specify name of agent. Dr. H. C. Wigor, 480 Quincy Bldg., Chicago, Ill. For sale only by Fred Schaefer, El Paso, Texas.

One of the principal uses of Dr. Pierce's Favorite Prescription is the preparation of prospective mothers for the time of trial and danger that comes when a child is born. This "Prescription" is strengthening and invigorating and lessens pain and danger. It insures the perfect well-being and the perfect health of both mother and child. Every woman should know these things before she really needs to know them. There are many things in Dr. Pierce's "Common Sense Medical Advice," that every woman ought to know. This celebrated work has reached a sale of 680,000 copies at \$1.50 each. The expense of production having thus been covered, 500,000 copies are now given away. A copy will be sent to any address on receipt of twenty-one (21) one-cent stamps to cover cost of mailing only. Address, World's Dispensary Medical Association, Buffalo, N. Y.

When most needed it is not unusual for your family physician to be away from home. Such was the experience of Mr. J. Y. Schenk, editor of the Caddo, Ind. Per., when his little girl, two years of age, was threatened with a severe attack of croup. He says: "My wife insisted that I go for the doctor, but as our family physician was out of town, I purchased a bottle of Chamberlain's Cough Remedy, which relieved her immediately. I will not be without it in the future." 25 and 50 cent bottles for sale by all druggists.

Mexican Central Railway. Is the only standard gauge line between the United States border and Mexico City. Mexico is known as all the year round tourist resort for pleasure travel. Health resorts and mineral springs adapted to all the various ailments to which human flesh is heir are found in the great country. Climate unsurpassed. For full particulars address, J. E. DONOHUE, Com'l. Agent, El Paso, Texas. Texas & Pacific.

You have your choice of routes, via the "El Paso Route," via New Orleans, Shreveport, Memphis, St. Louis or Chicago. Train leaves El Paso at 5 o'clock p. m. For further information call on or address, E. S. STEVENS, B. F. DARBYSHIRE, Depot Agent, General Agent.

Via Santa Fe Route. Round trip rates to Las Vegas Hot Springs at all times, as well as to the seaside resorts on the Pacific coast. Full information cheerfully furnished upon application to, E. COPLAND, General Agent.

Notice to all Travelers. Travelers Insurance Tickets have again placed on sale at the Southern Pacific city and depot ticket office. T. E. HUNT, Com'l Agent.

Holiday Excursion Rates. On Dec. 23rd, 24th, 25th, 30th, and 31, 1896, and Jan. 1st, 1897, the Southern Pacific will sell round trip tickets to local Texas points at one and one third rate. Limited for return January 4th 1897.

H. F. TURNER, Ticket Clerk, Office Cor., San Antonio and Oregon sts., El Paso.

National Irrigation Congress. Phoenix, Dec. 15-17, for the above mentioned occasion the Santa Fe will sell on December 10th to 13th inclusive, tickets to Phoenix and return, at one fare for the round trip. Return limit December 31st, 1896.

Notice is hereby given by the G. H. & S. A. Ry. of the withdrawal of excursion tickets from El Paso to southeastern states, which have been advertised to be on sale Dec. 21st and 22nd.

New Tourist Sleeping Car Service. The Southern Pacific have inaugurated through Pullman Tourist sleeping car service as follows:

Between Washington, D. C. and San Francisco, via Piedmont Air line, passing El Paso east Mondays and west Tuesdays.

Between San Francisco and Cincinnati, Ohio, via Queen & Crescent passing El Paso east Sundays and west Mondays.

Between San Francisco and Chicago via Illinois Central, passing El Paso east Fridays, west Saturdays.

In addition to this special tourist cars for San Francisco leave El Paso on Fridays and Sundays. The cars are operated by the Pullman company on same plan as first class sleepers, and are furnished complete with mattresses, curtains, blankets, pillows, sheets and pillow slips, new upholstered seats (leather) being put in and other improvements made. Clean sheets and pillow cases are put on every night. Berths in these cars are available to through or local passengers holding first or second class or excursion tickets. Each car is in charge of uniformed porters to make up berths and keep the car clean. For rates and further information call on H. F. TURNER, Ticket Clerk, Office Cor., San Antonio and Oregon streets, El Paso, Texas.

In one important respect, the American dailies of the sensational class have not, happily, been copied in England. The papers on the other side of the Atlantic have no great Sunday edition filled with atrocious warlike depicting every sort of real or fancied monstrosity, veritable "Chambers of Horrors," as they have been most aptly named. And as pictures appeal more than printed descriptions, to the youthful mind, the English journals, with all their shortcomings, are less harmful to young readers.—Ex.

The wife of Mr. D. Robinson, a prominent lumberman of Hartwick, N. Y., was sick with rheumatism for five months. In speaking of it, Mr. Robinson says: "Chamberlain's Pain Balm is the only thing that gave her any rest from pain. For the relief of pain it cannot be beat." Many very bad cases of rheumatism have been cured by it. For sale at 50 cents per bottle by all druggists.

"Complete Manhood" advertisement featuring an illustration of a man and text describing a medicinal product for men's health.

HOW KEROSENE IS REFINED.

How many housekeepers, as they fill their lamps with kerosene oil or their summer stoves with gasoline, have any idea how these oils are made? And yet a few miles from Chicago, at Whiting, Ind., is the largest oil refinery in the world.

Naphtha, benzine, gasoline or kerosene, as it is called, is a very illuminating oil, belong to the same family. The three first named being lighter oils, do not require nearly so much handling to bring them to perfection as the kerosene. This, of course, is easy to believe, but when it is said that from the same crude oil, after all the lighter oils have been distilled out, was made so closely resembling the product of the bees as to deceive, even an expert, and that it is used in chewing gum factories, candle factories, laundries and even in candy factories, one is often met with a polite look of doubt or an incredulous shrug of the shoulders. Yet it is so. It is possible to go yet further, and say that hundreds of miles from the refinery, the oil is made comfortable this winter by the refuse that adheres to the bottom and sides of the "stills" after even the wax has been pressed out. This refuse makes a good coke, is easily lighted, and is warmer, cleaner and cheaper than coal. Hundreds of tons are refined in the stills daily, and the oil is "charged" again, and hundreds of those who use this fuel do not know that it was once crude oil, dug in the Ohio fields and piped on to Whiting. The carbon used in electric lights is also made from this coke. Nothing is wasted.

As the most common kerosene oil is perhaps the most interesting of the products. After leaving the crude still it appears again in "sweetening stills," or in the "compound cylinders," which perform the same work as the sweetening stills, but in a newer invention, and is patented by an outsider, who allows only 40 in each refinery. The "sweetener" forms an important factor in the refining of Ohio oil. Owing to the "compound" before mentioned and the continuous friction of the immense wire brushes, which keep the oil in a mad whirl, it loses much of its bad odor. It is again vaporized, cooled in the condenser boxes and passed off into the "steam stills" for the next process.

In the steam stills it is treated just the same as in the previous process, with the addition of a washing by steam from perforated pipes passing through it. It is "vaporized" off as before, and now one would suppose that it was ready for use. Not quite. The kerosene oil now passes into the agitator for the final process. The agitator is furnished with a vertical shaft, is treated with acid and beaten and blown about by a machine called a blower and washed by torrents of water until it roars like the lake in a storm. Every particle of foreign matter is thus expelled. It is then pumped off into the storage tanks for shipping.—Chicago Tribune.

THE PRISONER'S FRIEND.

Beneficial Results of a Little Girl's Humane Act.

Thirty-eight years ago a little girl, named Linda Gilbert, began a thoughtful and most useful work, which she worked had not been done by other older people. Her father's house was in Chicago opposite to what was then the old brick prison. On her way to and from school she passed directly beneath the grated windows of the city prison. Many were the rude faces she saw peering out of these windows as she hurried by. One morning an old man who was serving a sentence in the prison, and who had been in the cell for many years, spoke to her through the bars or iron.

"Won't you bring me something to read, my dear?" he asked, plaintively. "I am very lonesome here, and have nothing to do. Bring me any kind of book, that's a good girl."

No prisoner had ever spoken to the ten-year-old child before, and half-interested, she hurried home and told her father the matter. He immediately gave her a book from his library to take to the prisoner. In a short time the little messenger had made friends with the old man, who seemed to be touched for the first time in his life. Every Sunday after that the child carried a book to the prison, asked for the man who talked to her through his grated windows, and gave him a new book to read. Several months later, the prisoner became mortally ill and sent for his little benefactor. Before she went away the dying man said:

"Promise me, child, you'll do as much for my comrades in prison as you've done for me."

"I will," said Linda, solemnly. She kept her word, and for a long time she carried books to prisoners in her own state. Hundreds of discharged convicts came to her. She had been their prison friend, and was their only hope when they were released. No one went away without assistance. To some she gave money; to others clothes and shelter and employment.

The first county jail library in Chicago was established by her. Soon she reached out into other states. She interested her friends in the work and gave a library of 2,000 volumes to the county jail in St. Louis. Thousands of books began to be sent to her from people all over the country, and these she distributed to many prisons. Now she began to be known throughout the west as "The Prisoner's Friend."

PUNGENT PARAGRAPHS.

—The Only Thing Left.—Director—"She's positively getting too old for the ballet." Manager—"Give her the part of the child wonder."—Detroit Free Press.

—"If you had half the nerve this tooth has," said the dentist to the quivering wretch in the chair, "you could have this all over in about five seconds."—Chicago Tribune.

—Police Magistrate—"It is a long time since I saw you here last. You have evidently tried to be good." Burglar—"Oh, Mr. Judge, I have been very ill."—Fliegende Blaetter.

—Late—"What! Have all your daughters become engaged this summer? I wished to ask for the hand of Fraulein Marie myself!" "Oh, she is the most engaged of all!"—Fliegende Blaetter.

—Benson (amazed)—"That your uncle! Why, man, you told me your uncle had both his legs carried away at Sedan." Jimson—"So he did. He carried them away himself, pretty fast, I tell you!"—Tit-Bits.

—The Count—"My dear Mees Gold-dollar, I want you to marry me." Heir-ess—"Oh, count, I am speechless with surprise." The Count—"Zut! Is all right; your money talk."—N. Y. Commercial Advertiser.

—Prostrated—"What are you doing with a Turkish lounge in this coal office?" "Our bookkeeper writes poetry, and we had to fix up a place for him to lie down when his manuscripts come back."—Chicago Record.

—She—"And now, Charlie, I suppose to-morrow you will have to speak to papa about our engagement?" He—"Yes, dearest, I suppose I must." (After a pause) "Has your father got a telephone?"—Somerville Journal.

—A judge's little daughter who had attended her father's court for the first time was very much interested in the proceedings. After her return home she told her mother: "Papa made a speech, and several other men made speeches to 12 men who sat all together, and then these 12 men were put in a dark chamber to be developed."—Pittsburgh Chronicle-Telegraph.

WHIMS OF WATCHES.

Hang Up Your Timepiece at Night If You Value It.

To most people the whims and caprices of a watch are a deep mystery. One very common cause of the watch gaining or losing is the disposition that is made of it at night. If you wear a watch next to your body during the day and put it on a cold marble mantel-piece at night, or in fact anywhere in a cold room, the watch is sure to either gain or lose.

Every body knows that the proximity of a dynamo will magnetize the steel parts of a watch and ruin it for the time being. A watch may be affected by electricity without the owner having been near a dynamo. The amount of electricity in some people is so great that it can seriously affect the steel parts of a watch. A downtown watchmaker told a reporter that he often had examined watches which were very slightly magnetized. He used to demagnetize them and return them, at the same time cautioning the wearers not to go near a dynamo. When a man has the same trouble with his watch continually it is a proof that the static electricity in his body has affected the watch.

The watchmaker said that dark people are more likely to affect their watches in this way, and women more so than men. The amount of electricity in the body is, of course, very slight, but very little is required to affect the delicate works of a watch. Persons of high electric organization should wear a watch with a steel case if they hope to have an accurate time-piece. A watch should never be laid horizontally at night, but should always be hung upon a nail. Change of position will not affect a mechanically perfect watch, but such a watch is yet to be made.

It is well known that a watch will stop for some unexpected reason and go on again all right if it is given a slight jolt. The same trouble may not occur again for years. This is an accident to which all watches are liable when carried around on the person. It is due to the hairspring stud or the regulator pins. The cause is a sudden jump or quick movement, such as getting on a moving car. A jolt is given to the balance-wheel and hairspring and this renders the catching possible. The jolt must come at a particular fraction of a second during the revolution of the balance-wheel, otherwise the spring will not catch.—N. Y. Journal.

Coming to a Widow.

For widow's weeds nothing will be found the equal of crepon. It was made primarily for mourning, and nothing has been found better. It has the crinkled appearance of crepe without being as crushable. A widow's gown of crepon was made princess shape, draped and buttoned. The sleeves were fronting and full, and on the shoulders were double capes of the chiffon, each cape edged with white taffeta ribbon. The waist has a yoke outlined with taffeta. The ribbon came to points in the front. At the lowest point a little bolero jacket opened into a lapel and was finished with a border of the taffeta. To make the waist very slender a point of taffeta was brought down a little below the waist line. A widow's costume, being all of black and white, will stand a deal of fussiness that would not be becoming to other materials.—St. Louis Republic.

Not Crisp.

Mix together thoroughly 1½ cupfuls of coarse graham flour and one-half cupful of bicokry-nut meal, prepared by pressing the chopped meats of nuts through a fine colander. Make into a rather stiff dough with ice water, knead well, roll into a sheet as thin as brown paper, cut with a knife into squares, and bake on perforated tins until lightly browned on both sides. Good Health.

Dr. Pierce's Golden Medical Discovery is the only medicine that absolutely and infallibly cures all blood diseases. It isn't a medicine for some one particular so-called disease. It is a medicine for the whole body. It forces out all the germs of disease, replaces impurities with rich red blood, feeds the tissues and makes strong, healthy flesh.

PISO'S For Consumption CURE

For the last 20 years we have kept Piso's Cure for Consumption in stock, and would sooner think a groceryman could get along without sugar in his store than we could without Piso's Cure. It is a sure seller.—RAVEN & CO., Druggists, Ceresco, Mich. September 2, 1896.

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Kansas City, St. Louis, Chicago, Denver, Omaha, St. Paul, Boston, New York, Philadelphia

And all Northern and Eastern Points Through Trains, Fast Time, Smooth Track.

Elegant Pullman Palace Sleepers on all through trains. Daily Tourist Sleeping cars to Denver, Kansas City and Chicago. Tourist sleeping cars semi-weekly to St. Paul, Minneapolis and once each week to St. Louis and Boston.

All trains not having dining cars stop for meals at the famous Santa Fe Route, Harvey Houses. Full information cheerfully furnished upon application to A. W. REEVES, City Ticket Agent, Office, Fargo Building, Corner El Paso and San Antonio Streets. E. COPLAND, General Agent, W. B. TRULL, Agent at Depot.

SUNSET ROUTE! Through Line Between EAST and WEST. Daily Through Trains to NEW ORLEANS, PHILADELPHIA, WASHINGTON and Eastern Points.

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MEXICAN CENTRAL RY.

Pan-American Medical Congress MEXICO CITY. Round Trip Tickets on Sale Nov. 12, 13, 14, 15 and 16, 1896. Mexican Money, \$60.31. Limited to Return Dec. 31, 1896. Address the undersigned for full and reliable information: J. F. Donohoe, Com'l Agent, El Paso.

COLUMBIAN PRIZE WINNERS.

CONOVER PIANOS CHICAGO COTTAGE ORGANS WERE GIVEN HIGHEST AWARDS

At the World's Exposition for excellent manufacture, quality, uniformity and volume of tone, elasticity of touch, artistic cases, materials and workmanship of highest grade. See that your tickets read via the Texas and Pacific Railway. For maps, time-tables, tickets, rates and all required information, call on or address any of the ticket agents or B. F. DARBYSHIRE, General Agent, El Paso. GASTON MESLIER, General Passenger and Ticket Agent, L. S. STEPHENS, Third Vice-President and General Superintendent, Foster and Mitchell, Attorneys and Counselors. Will practice in all courts of Texas and New Mexico.

CHICAGO COTTAGE ORGAN CO.

LARGEST MANUFACTURERS OF PIANOS AND ORGANS IN THE WORLD. Purest Drugs. Latest News. A. K. ALBERS & CO., BRONSON BLOCK. HEADACHE EXLIXIR—Cures any headache. Try it.

NERVE SEEDS advertisement featuring an illustration of a man and text describing a medicinal product for nervous system health.

You May

never have found anything to surpass the coffee and biscuits that your mother made, but the

PRINTING

that delighted your father and the prices that he considered reasonable would hardly prove satisfactory to you in this age of progress and competition.

UP-TO-DATE

is an appropriate term in speaking of the printing we do. We have a lot of new equipment, and are constantly receiving the latest styles of type.

Books

and Pamphlets of every description printed in the neatest and most attractive styles. If you want a catalogue or Constitution and By-Laws printed, call on us

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increased our facilities for doing commercial printing. We do not claim to be the cheapest printers in the State—we are not running a Chinese laundry—but we do

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