SCIENCE AND INDUSTRY.

—Six or eight tons of cast iron can be made into steel in twenty minutes by one operation.

—The woman who can control her own tongue is greater than he who ruleth a city. She is also scarcer.—*N. Y. Star.*

—It has been estimated that after a lapse of ten million years the sun can not give out sufficient heat to support life on earth.

—The fabric known as Chinese grass-cloth is made from the fiber of nettles. The cloth is peculiarly glossy and transparent, and as belting for machinery has double the strength of leather.

—Two substitutes for the high priced gum arabic—one from flax-seed and the other from starch—are expected to serve all purposes for which the genuine gum is used.

—Without taking into account the small variations due to refraction, etc., the days and nights are always of equal length at all points on the equator, without regard to the position of the ecliptic.

—Steel is iron with from one-half to two per cent of carbon. It was formerly prepared by heating wrought iron with carbon till it took up the proper quantity. It is now made on a large scale by the Bessemer process of burning out the carbon and silicon of cast-iron by forcing a blast of air through the molten metal.

—Additional experiments have been made, and with good success, with the new French method of coating pipes with cork. A layer of cork is first employed, asbestos coming next, and finally another layer of cork. The temperature inside the pipes was some 400° Cent., and after 360 hours the temperature of the outer surface of the coating was found to have only risen to 35°.

—Dr. Julius Pohlman thinks the reason why our teeth decay so fast is because we do not use them enough, and, like other organs that are not exercised, they tend to atrophy. Our teeth become weak because unused to hard work. The author warns mothers and nurses not to give children soft food if they would have them have good teeth; in other words, make them eat their crusts.

—A French experimenter, utilizing the power generated simply by the heat of the sun, has succeeded in raising 2,500 quarts of water in an hour from a depth of twenty feet. Extravagant hopes have been entertained that in the future the energy from this source may be so brought under control that many of the present methods of obtaining power may be done away with.

—A recent writer makes a strong plea for simplicity in the terminology of science. The late eminent chemist, M. Mumas, is reported to have said that the complexity and uncouthness of modern chemical nomenclature were something gigantic, and that he found it impossible to keep pace with all the new theories and verbal alterations that were flooding his favorite science.

—An interesting development in photography is in the use of clockwork in printing from negatives. By this means a continuous web of sensitized paper is drawn at suitable intervals under a negative exposed to a source of light. After printing the paper is drawn, still by the mechanism, through "washer," "toner" and "fixer" successively; and appears finally as a series of finished pictures ready for mounting, and all alike in exposure, color and tone.

EARLY INSTRUCTION.

Why Children Should Be Made to Do Work Suitable for Their Age.

If possible, parents, teach your children to do work suitable and proper for their age. If a mistake is made, do not reprove them sternly. Kindly point it out, if unnoticed, and allow them to undo or correct it, if it is in their power. Mothers are often so hurried and worried with work and the care of children, that they feel or think they have no time to teach them to cut out simple articles, or to do sewing, knitting, etc. The oldest daughter is usually taught those useful arts as early as her sixth year. There seems to be time to instruct her, as the wants of those younger do not yet need attention in that way. The oldest son, too, is early called to help about work. Younger sisters wait on the little ones, and often spend the rest of their time in play. Recreation is necessary, but if kept up too long, fatigue is the result. Boys and girls, whose home is on a farm have peculiar advantages for learning to do work suited to their capacity. The well-kept district schools of the country are pleasant places in which to gain knowledge. The long walks to and from school, with fields of grain and orchards bordering on the road, have charms for healthy, happy children. After supper, when the evening work is done, the lamps are lighted, and lessons studied. Reading and play have a share of their attention also. With all these, time can be taken for needful instruction in needlework, etc., for girls. Be determined in this matter, dear mothers. See to it that every piece of work assigned to each is finished by herself, and within a reasonable time. Never allow a child to say: "O, it's no matter when I finish this," or, "Any time will do." These are dangerous expressions for young or old to use, as they help to form the habit of putting off until to-morrow the work of to-day.

Strive to inspire your children with self-respect by your sensible example and advice, and they will respect and honor you in return.—*Rural New Yorker.*

—The destruction of forests has proceeded so rapidly in Prussia of late years that the Government has passed a law protecting timber. It was found that the climate in many districts was changing, and rivers and lakes were becoming shallow in consequence of the wholesale cutting away of woods.

—The Government ornithologist at Washington estimates that the surplus in the United States treasury would not suffice to pay the bounty for exterminating the English sparrows in New York State.

PUNGENT PARAGRAPHS.

—A law prohibiting the distillation of liquor goes against the grain in the West.—*N. O. Picayune.*

—Mr. Softleigh—"What, in your opinion, is the limit to love?" Mr. Hardy—"Matrimony."—*Life.*

—First Lady—"Has your husband quit smoking yet?" Second Lady (just returned from the far West)—"Well, he ought to by this time; he has been dead six months."

—Professional gamblers have a great many superstitions. One of the most practical is that if they deal the cards themselves they have a much better chance to win.—*Somerville Journal.*

—"What was the text this morning, John?" inquired a druggist's wife who had been unable to attend church. "To err is human," replied the arsenic expert; "and it was a mighty sensible sermon."—*N. Y. Sun.*

—Time was when the college professors used to box the ears of refractory freshmen. They would have to take a four years' course in sparring before they could do it now.—*Burlington Free Press.*

—President—"Yes, Mr. Snapper, the faculty have decided that you have broken the rules, and there is no course for us but to suspend you." Student—"H'm; how about suspending the rules."—*New Haven News.*

—Miss Pounder (who has been having a wrestling match with the keyboard of the piano)—"Have you a sensitive musical ear, Mr. Tympanum?" Mr. T. (more candid than polite)—"Yes, I am sorry to say I have."—*Boston Budget.*

—A physician has discovered that the older a man grows the smaller his brain becomes. This explains why the young men know every thing and the old men know nothing.—*The Sturdy Oak.*

—A Colorado judge has decided that a man is in duty bound to tell his wife where he spends his evenings when away from home. It would save many a man trouble if he would do just that without any order of the court.

—Seaside hotel proprietor (to sea-serpent in search of an engagement)—"No, I don't think I shall have any use for you this season; I've got the promise of a society actress, two bogus lords, a political convention, and a scandal in high life, and my bill of attractions is about full."—*Life.*

—"Do you know if Brown is a man of ability, Dumley?" "I don't know any thing about Brown, or his ability either, and don't want to know. He refused to lend me twenty-five dollars six months ago, and I haven't noticed him since." "He seems to be a man of financial ability, Dumley."—*The Epoch.*

—First Tramp—"If I had my way I'd have 365 national holidays in this year." Second Tramp—"You would, eh? And then there would be one working day in every four years. O, you are a nice one, you are! You would make a galley slave of the poor laboring man, wouldn't you?"—*Texas Siftings.*

—"Why can not women make good lawyers?" asks an exchange. We never gave the subject much thought, but we suppose it is because they can't sit on the small of their backs, pile their feet on a table, spit half way across a room in a box full of sawdust, and charge $15 a minute for it. There may be some minor reasons, in addition, but these appear to us to be the principal obstacles in the way of her success at the bar.—*Burdette.*

UNPROFITABLE WORK.

Julian Hawthorne Explains Why It Does Not Pay to Write Books.

We may talk about the hardships of American literature (having assumed, for the sake of argument, that such a thing exists), but what would be the state of that alleged literature if there had been no American magazines? Suppose I, as an American author, write a novel, and arrange with a publisher to bring it out at the price of $1 a volume, or 50 cents paper. If he has confidence in the book, the first edition will be 1,000 copies; my share of the proceeds on the ordinary 10 per cent basis is $100, payable at the end of the year. If I live by my pen I must subsist during that year on nothing at all, and when I get my $100 I must pay out of it my debts for that last year, and probably my present funeral expenses, for who can live on 35 cents a day, even if he were not obliged to starve to death before he could enter upon the enjoyment of that princely income? But let us be extravagant and utopian—let us say that my edition is 5,000 copies, instead of 1,000. In that case—which perhaps occurs as often as once in a thousand times—my reward amounts to the sum of no less than $500—assuming, of course, what is never the fact, that all the copies sold are in the dollar cloth form, and none in the 50 cents paper. Five hundred dollars a year for a successful novel! How many of our authors make twice that? How many ten times as much? How many twenty times as much? I will engage to entertain at dinner, at a round table five feet in diameter, all the American novelists who make more than $1,000 a year out of the royalty on any one of their novels, and to give them all they want to eat and drink, and three of the best cigars apiece afterwards, and a hack to take them home in; and I will agree to forfeit $1,000 to the Home for Imbeciles if $25 does not liquidate the bill and leave enough over to buy a cloth copy of each of the works in question, with the author's autograph on the fly-leaf. One hack would be sufficient, and would allow of their putting up their feet on the seat in front of them.—*Julian Hawthorne, in Belford's Magazine.*

—If one is not on one's guard, low-bred fortunes may lead to baseness of soul.

—The days of December are shorter than those of August; but you can never make a schoolboy believe or feel it.

—There are people in this world who love to suffer for the pleasure they derive in moaning.—*Philadelphia Call.*

—Truth is the most powerful thing in the world, since fiction can only please by its resemblance to it.—*Shaftesbury.*

THE TIUMEN PRISON.

Description of a Forwarding Station for Siberian Exiles.

The Tiumen prison was originally built to hold 500 prisoners, but was subsequently enlarged by means of detached barracks so that it could accommodate 800. On the day of our visit, as we were informed by a small blackboard hanging beside the office door, it contained 1,741. As we approached the entrance we were stopped by an armed sentry, who, upon being informed that we desired admittance, shouted through a square port-hole in the heavy gate, "Star-she-e-e!" (the usual call for the officer of the day). A corporal or sergeant with a saber at his side and a Colt's revolver in a holster on his hip, answered the summons, carried our note to the warden, and in a moment we were admitted to the prison yard. Fifty or sixty exiles and convicts were walking aimlessly back and forth in front of the main prison building, or sitting idly in groups here and there on the ground. They were all dressed from head to foot in a costume of gray, consisting of a visorless Scotch cap, a shirt and trousers of coarse homespun linen, and a long gray overcoat with one or two diamond-shaped patches of black or yellow cloth sewn upon the back between the shoulders. Nearly all of them wore leg-fetters, and the air was filled with a peculiar clinking of chains which suggested the continuous jingling of innumerable bunches of keys.

The first "kamera" or cell that we entered was situated in a one-story log barrack standing against the wall on the left of the gate, and built evidently to receive the overflow from the crowded main building. The room was about 35 feet in length by 25 in width and 12 feet high; its walls of hewn logs were covered with dirty whitewash; its rough plank floor was black with dried mud and hard-trodden filth; and it was lighted with three grated windows looking out into the prison yard. Down the center of the room, and occupying about half its width, ran the sleeping-bench—a wooden platform 12 feet wide and 30 feet long, supported, at a height of 2 feet from the floor, by stout posts. Each longitudinal half of this low platform sloped a little, roof-wise, from the center, so that when the prisoners slept upon it in two closely packed transverse rows, their heads in the middle were a few inches higher than their feet at the edges. These sleeping platforms are known as "nares," and a Siberian prison contains no other furniture except a large wooden tub for excrement. The prisoners have neither pillows, blankets, nor bedclothing, and must lie on these hard plank nares, with no covering but their overcoats. As we entered the cell, the convicts, with a sudden jingling of chains, sprang to their feet, and stood silently in a dense throng around the nares. "Zdrastvuitui rebiata!" ["How do you do, boys!"] said the warden. "Zdravie zhelaiem vasha vwisoki blagarodie" ["We wish you health, your high nobility"], shouted a hundred voices in a hoarse chorus. "The prison," said the warden, "is terribly over-crowded. This cell, for example, is only 35 feet long by 25 wide, and has air space for 35, or at most 40 men. How many men slept here last night?" he inquired, turning to the prisoners.

"A hundred and sixty, your high nobility," shouted half a dozen hoarse voices.—*George Kennan, in Century.*

Some Triplet Maxims.

Three things to love—courage, gentleness and affection.

Three things to admire—intellect, dignity and gracefulness.

Three things to hate—cruelty, arrogance and ingratitude.

Three things to delight in—beauty, frankness and freedom.

Three things to wish for—health, friends and a contented spirit.

Three things to like—cordiality, good humor and cheerfulness.

Three things to avoid—idleness, loquacity and flippant jesting.

Three things to cultivate—good books, good friends and good humor.

Three things to contend for—honor, country and friends.

Three things to teach—truth, industry and contentment.

Three things to govern—temper, tongue and conduct.

Three things to cherish—virtue, goodness and wisdom.

Three things to do—think, live and act.—*Farm, Field and Stockman.*

—Culture is spreading. The other day a young lady of Texarkana, Tex., bought herself half a dozen big trunks full of finery, had them shipped to her address at a leading girl's college up North, and sent the bills to her fond father, who is a man of worth and substance, along with a telegram that she herself had taken the train for school, as she was "bound to have a fine education."

—Another 1804 dollar, and evidently the one whose whereabouts so long puzzled numismatics, has been heard from. The coin is in the possession of a Pawtucket, R. I., woman, who was given it by her father in 1820 on her eighteenth birthday. He received the dollar as part payment for services in the war of 1812, and in presenting it to the present owner instructed her never to part with it.

—A Port Huron, Mich., woman who is rather restless as to how business may be later in the season, has bought her coffin at a quarter-off sale and is now overseeing the construction of her tombstone.

No remedy for sexual debility has ever been found that equals Dujardin's Life Essence. It restores feeble powers and invigorates the whole system. A simple trial will convince the most sceptical. Price, $1.50 a bottle. All druggists.

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"What are Hamburg Figs?" They are simply a crystallized fruit cathartic, composed of vegetables and fruits. They are a natural laxative, assisting Nature to overcome constipation, liver complaints, biliousness and piles. Physicians recommend Hamburg Figs to be given to Infants, to Youths, and to their Parents, knowing them to be mild, harmless, but most efficient laxative and purgative. During pregnancy the bowels always show a tendency to constipation, and during this period the continued use of

HAMBURG FIGS

is peculiarly indicated, because, being purely vegetable, they keep the blood cool and the system in perfect condition. Their continued use will cure the worst cases of hemorrhoids or piles. Hamburg Figs are sold at 25 cents a box by apothecaries. Dose, one Fig.

—It was not Goethe who said that you can always tell the man who has gone to grass by his seedy appearance. Goethe was a brilliant philosopher, but there was some things he forgot to say until it was too late.—

WHICH WAS IT? BACON OR SHAKESPEARE.

The authorship of the dramatic productions attributed to the last of the above named is agitating literary circles to the very centre, but affects the practical masses far less than the momentous question, how to regain or preserve health, that essential of bodily and mental activity, business success and the "pursuit of happiness." We can throw far more light on this latter subject than the most profound Shakespearian can on the question first propounded. If the system is depleted, the nerves shaky; if indigestion or constipation bothers one at times, or constantly; if the skin is yellow, and the tongue furred as in biliousness; if there are premonitory twinges of oncoming rheumatism or neuralgia; if the kidneys are inactive—use Hostetter's Stomach Bitters, the finest recuperant of an age prolific in beneficial and successful remedies. Remember, if malaria threatens or afflicts, that it neutralizes the poison and fortifies the system

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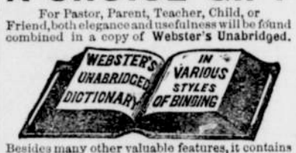

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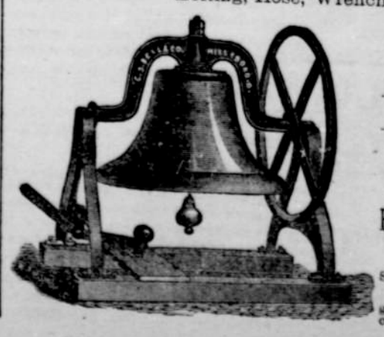

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