

RY DAY SCIENCE.

ing a Small Boat Without Any Consumption of Power.

UTILIZING THE HEAT OF SLAG.

Natural Gas Has Almost Driven an Indiana Farmer from His Farm.

MECHANICAL BIRDS THAT FLY WELL.

Readers of THE DISPATCH who desire information on subjects relating to industrial development and progress in mechanical and electrical engineering and the sciences can have their queries answered through this column.

As an instance of negative hydraulic pressure or relative vacuum in the wake of a moving vessel, Mr. P. G. Hamerton describes an incident which occurred in the sailing yacht on the Saxon. The small sailing yacht, or "catamaran," Arar is a double boat, built on the principle of the Calais-Douvres. Returning against the stream in the wake of a huge barge towed by a small steam tug, Mr. Hamerton remarks: "On drawing the Arar close to the barge I found the motion less fatiguing; but the curious thing was this—the Arar now followed without a hawser. There was, in fact, no necessity for a rope, as our boat was propelled by the back-water behind the barge. The Arar kept the noses of her two hulls at a distance of about three inches from the stern of the barge before her, and that with marvelous steadiness. For some time the hawser hung idly in festoons, but they were entirely detached before we came to the bridge at Mason; yet the Arar followed under the arch against the general current of the river, though in reality on the rapid counter-current of the back-water. How can a steamer tug tow a boat without either increase of power or diminution of speed? The question appears insoluble; yet here is a solution of it: the steamer's motion may create a back-water behind a flat-bottomed barge that she is towing, and the small boat may flow on the back-water without imposing the slightest extra tax upon the tug."

Mechanical Birds. An ingenious manufacturer, M. Pichancourt, has recently brought out some small mechanical birds, which operate with great regularity. The motion of the wings is brought about by the energy stored up in twisted rubber bands. The spread of the wings is 13 inches; the rubber spring weighs 120 grains, and is 5 inches in length, and the total weight of the apparatus is three-quarters of an ounce. The device is simple and slightly, and is capable of moving to a distance of 60 feet. M. Pichancourt has succeeded in constructing a mechanical bird of the same kind of larger size, and which weighs no less than 20 ounces. Set free by the hand, this apparatus has risen to a height of 25 feet above the ground, and fallen at a distance of 21 yards from the starting point against a head wind of 15 feet per second. The success of these so-called mechanical aeronautical experts.

Utilization of Slag Heat. A most singular and interesting instance of commercial economy is afforded by the new invention of Sir Lowthian Fell, which consists in utilizing the waste heat of slag derived from iron furnaces and blast furnaces, and which is otherwise lost. The slag is played in other metallurgical operations. The slag may be received into iron vessels mounted on wheels, and capable of containing several tons. These vessels when charged are caused to be passed down an incline into a chamber, over which an evaporating pan of large area is set. When the slag blocks

are in the chamber they are sprinkled with water to harden the exterior. Steam is there generated, and this steam coming in contact with the bottom of the pan imparts its heat thereto, and so heats the brine or solution which the pan contains. Or the steam generated may be passed through pipes immersed in the solution.

Submarine River Plow. A curious machine for cleaning out the Sacramento river and various bars is about to be constructed at San Francisco. The machine is not a dredger, but a great submarine plow, which simply clears the channel as it runs. It is propelled by three engines of the combined power of 54 horses, and while going at the rate of 12 miles or more an hour, scoops out a space six feet deep and 40 feet wide. The debris is shoveled on either side, so that, instead of the banks being weakened, they are strengthened. The plow will be 100 feet long, 35 feet wide, and 12 feet deep.

Amenities of Natural Gas. A farmer in Indiana has had a singular experience. Natural gas is coming up out of the ground all over his farm, and it is easy to light it in hundreds of places by simply applying a match. Even the water in the farmer's drive well is forced out by the gas, and the family is contemplating a removal from its residence to avoid being blown up. The farmer considers that his farm is entirely ruined, and will doubtless abandon it altogether, unless some gas can be devised to control the escaping gas.

Ageing of Spirits Artificially. A novel industry is the separating and storing of oxygen from the atmosphere. This interesting process has a unique application in the maturing of spirits and in improving the quality of beer. It is claimed that the oxygen in its contact with spirits actually accomplishes in a few days what, if left to the natural and usual process, required a period of from three to five years. The oxygen gets rid of the used oil quickly, and when used on beer produces a rapidly maturing effect.

Miscellaneous Notes. A MACHINE for taking soundings has been invented which does not require that the vessel be stopped for the work. There are 20 compositions on the market to prevent submarine wrecks on iron ships, and none of them do the work. A big manufacturing firm has offered a reward to its firemen who save the most fuel. The firm is convinced improper firing is responsible for great waste. It has been found that steel ships possess magnetism that is permanent, and this, in some instances, greatly affected the needle. The magnetism seems to be acquired during building. JAPANESE lequer is highly spoken of. It gives a surface to wood much harder than the best copal varnish, without brittleness. It takes a polish not to be excelled, which lasts for centuries, as in the old treasures of Japan. It is proof against boiling water, alcohol and apparently every agent known. AN Italian journal describes a new pharolight, which is said to be as powerful as the electric light, and the efficiency of which is not impaired by fog as in the case with the latter. A clock work arrangement pours every 30 seconds ten centigrams of powdered magnesium into the flame of a round work lamp, producing an extremely brilliant flash of light. The weight of the apparatus being only about 65 pounds, it can readily be used for signaling purposes at sea.

WEAK stomach, Beecham's Pills act like magic. FEAR'S Soap secures a beautiful complexion.

GRAND OPERA HOUSE. MR. E. D. WILT, Lessee and Manager. One Week, Commencing Monday Matinee, March 17. Matinees Monday, Wednesday, Saturday. Sardou's Great Romantic Drama, THE EXILES. Superbly Presented by the Boston Theater Company. A Picture of Siberia. A Magnificent Spectacular Production. Live: Reindeer, Siberian Dog Teams. The Great Conflagration Scene. A Star Cast. 200—People on the Stage—200. REGULAR PROES: 25c, 50c, 75c and \$1. Next Week—Chicago Auditorium Opera Company in repertoire. HARRIS' THEATER. Week Beginning Monday, March 17. Every Afternoon and Evening. SHOOK & COLLIER'S. Magnificent Military Drama, THE BLUE AND THE GRAY. Presented by a Splendid Company direct from Niblo's Garden, New York. 70—People on the Stage—70. ORIGINAL SCENIC EFFECTS. A local military company will appear at each performance. Week March 16—"UNDER THE LASH" 10c, 25c, 50c, 75c, \$1.00. GRAND CONCERT—Under the auspices of the ROYAL ARCADE, of Allegheny county, at Carnegie Music Hall, Allegheny, on Thursday evening, March 20, 1890. Mrs. E. W. Wolf, soprano; C. C. Meador, organist; Harry B. Brockert, tenor; W. S. Weeden, bass, and BEETHOVEN QUARTET, composed of Carl Betler, Fred Toerpe, George Toerpe and Charles Cooper. Address by J. A. Langitt and S. U. Trent, Esq. of Pittsburgh Bar. Performance at 8 o'clock. Tickets, 50 cents. mhl6:18

GUENTHER'S ORCHESTRA. Furnishes Music for Concerts, Weddings, Receptions, etc., etc. Lessons on Flute and Piano given by PROF. GUENTHER, 440 Wood st. 2nd-flo-2.

GOSSIP OF THE STUDIOS.

Miss WHITEHEAD, of the School of Design, has completed an excellent crayon portrait of Mr. Robert Knox, Jr., of Allegheny City. The picture is on view at Morrison's, on Sixth street.

The landscape exhibited at Boyd's this week by Mr. F. Kaufmann is a much stronger work than his other. It has been noted in this column a short time ago. In this work there is a really fine glow of light in the sky against which the branches of some trees have been painted in a very delicate manner. The only part lacking in strength is the immediate foreground.

A very excellent portrait of Mr. William B. Seafie, executed by D. R. Walkley, is shown at Boyd's. This picture will be sure to attract a great deal of interest, for the reason that in addition to being a striking likeness it is also a splendidly handled work, if judged solely from a technical standpoint. It is certainly a fine example of a broad, free stroke of paint, combined with true life-like coloring and correct drawing.

MR. LE GRAND JOHNSTON has a fondness for painting sheep, and now has at Boyd's a work consisting of a flock of sheep near the brow of a hill, the severe outline of which is broken only by a small clump of trees. The sheep are painted with the skill and cleverness for which the artist is becoming noted. The landscape is a subdued effect of brown and gray, beneath a sky replete and serene, the entire scene being pervaded with an atmosphere of pastoral peacefulness and quiet.

A PHOTOGRAPHURE of Abbot Grave's amusing picture "Music, Literature and Art," has been recently published. The scene is in the art stores. The work is divided into three sections, in which a comical looking youngster and a cat are the subjects. From the first division it becomes evident that music is evolved from the lungs of a cat as the result of a small boy pinching its tail, while in the second section the boy is busily engaged in arranging some letters, building blocks, with puppy an evidently deeply interested observer. As representing art the boy has seized hold of the cat and is making a more or less successful use of its tail as a paint brush, much to his own satisfaction, regardless of the little animal's preferences.

MR. JOHN JOHNSTON exhibits a landscape at Young's which might perhaps be a great deal worse, but which, at the same time, is not all that it ought to be. The subject, a winding stream between gently sloping hills, would be pleasing enough had there been a greater degree of strength put into the handling of the work. The chief fault of the picture is the sameness of color, that exists throughout the different parts. Nature's hues are infinite in variety, and it is not safe to paint a tree of one literal green, even though that be the color which it appears to us, and it is better for the artist to err on the side of variety than that of monotony.

A PAINTING has been on exhibition at Gillespie's for the past few days going to EXTRA. BIJOU THEATER. WEEK MARCH 24. "A Truly Gorgeous Triumph." The Second Edition of Mr. W. J. Gilmore's Magnificent Spectacle.

Revised, Rewritten and Produced at an actual cash outlay of \$35,000! Forming in its entirety the GRANDEST BALLETS. -AND- SCENIC DISPLAY. Seen in this Country. 70--People on the Stage--70. SALE OF SEATS BEGINS THURSDAY, MAR. 20. mhl6:32

GRAND OPERA HOUSE. ONE WEEK, Commencing Monday, Mar. 24. Matinees Wednesday and Saturday. THE J. C. DUFF Consolidated Opera Company. The largest traveling company on the road. Direct from their triumph at CHICAGO AUDITORIUM! Presenting the Grand Mammoth Revivals of H. M. S. PINAFORE. -AND- THE MIKADO. With all the wealth of scenery, wonderful Mechanical Effects, Phenomenal Cost and GRAND CHORUS OF 80! ENLARGED ORCHESTRA. The Duff Opera Company numbers 100-PEOPLE-100. And will give precisely the same artistic representations that made them the success of the Chicago season. mhl6:45

HARRY WILLIAMS' ACADEMY. MONDAY EVENING, MARCH 17. Matinees, Tuesday, Thursday and Saturday. LILLY CLAY'S COLOSSAL GAIETY CO. The Gorgeous Spectacle, Beauty in Dreamland; or The Pearls of the Orient. The Sparkling Burlesque, THE DEVIL'S PROLOGUE; Little Faust on a Lark. And the Pictureque Extravaganza, ANTONY AND CLEOPATRA. Monday, March 24—The Bennett Brothers' Specialty Co. mhl6:13

IMPERIAL HALL. Cor. Seventh avenue and New Grant street. THE IMPERIAL BALL. NEXT THURSDAY NIGHT. Colonel Christy will introduce his new and laughable quadrille, called "Funch and Juch." The funniest dance out. Don't fail to see it. March 27, by special request, second grand masquerade. Four beautiful pytes for the best and most comic costumes. mhl6:30

WORLD'S MUSEUM—Allegheny City. GEO. CONNOR, Manager. EDW. KEENAN, Business Manager. Week beginning Monday, nature's greatest enigma. CHAS. E. HILLIARD. A man who disdains to be joint in his best will. Miss IDA WILLIAMS. Mastodon fashion place, with her costly wardrobe, direct from Prof. Worth's, Paris; a treat for the ladies. Zemora and his wonderful Egyptian Mystery. Re-engagement. NATALIE DORONJO and her den of alligators and crocodiles. GERMANY'S Middle Occultist. CHAUNCEY MORELAND, Indiana's fat boy. Prof. Hampton's college of educated dogs, cats, monkeys, geese. In the theater, strongest specialty show of the MONDAY, March 17, every visitor will receive a genuine shamrock, imported direct from Ireland. NEXT WEEK, MAGGIE, THE MIDGET and her tiny baby, only midget mother and baby ever lived. mhl6:10

see. It is the work of the famous French artist, Beaunquene, and is the property of a Pittsburgh gentleman who acquired it quite recently and has just brought it to the city. Beaunquene is one of the most celebrated painters of military subjects, to which he confines himself almost exclusively. The picture in question has been executed in his best manner, and will command one among the many fine works that have become the property of some of our best known citizens during the past twelve months. The subject represents a number of soldiers, fully accoutered for service, engaged in scaling a wall, the necessity for caution and silence being plainly evident from their furtive glances and stealthy movements. The scene is located in what appears to be the midst of a picture; the figures of the men, whose varied and graceful foliage forms a splendid background for the figures of the men. With regard to the style of handling, it is unnecessary to say more than that it is keeping with the artist's reputation, in color, the picture is strikingly rich and harmonious.

MR. D. B. WALKLEY has put the finishing touches to another of his last summer's sketches, and has it at present upon exhibition at Boyd's. He was unusually successful in his work last season in securing studies of rare effects of atmosphere and color, combined with a unique and pleasing style of composition. The subject of this present work is of a very simple character, in spite of the fact that it is quite out of the ordinary run; it is just such a scene as is passed over by the casual observer as he passes through the streets of a city. The aid of artistic treatment to bring out its good qualities. That Mr. Walkley has been fully equal to the task is amply proven by the result of his labors which those interested may see and judge for themselves. The scene is a roadway leading through a rather level country, but as the view is taken looking up a gentle slope, the range of vision is still somewhat limited. At the most distant part of the road may be seen a small clump of dark trees.

while nearer the foreground is a growth of tall, tangled grass, something that it is very difficult to faithfully portray upon canvas, but with which the artist has succeeded remarkably well. A large flock of sheep in the road lends an interest that might otherwise be wanting on account of the simple character of the subject, and in their delineation Mr. Walkley has shown a creditable degree of skill as an animal painter. The handling throughout is of a quality that leaves little to be desired, and in color and tone the work is particularly good.

two works by Theodore Roybet, "The Critic," and "The Prize of the Artist Van der Helst," are both fine paintings. "The Piccolo Canal," by Rubens Santoro, a pupil of Rice, though a fine work in many respects, still serves to show how far the master is above his followers. As the works of both master and pupil, of about the same size and very similar in character, are to be viewed almost side by side, the opportunity presented of judging critically of their respective merits is a very fair one. "The Artist Cardinal," by Leo Hermann, could not well be better, while another fine work, consisting of a single figure, is "The Connoisseur," by Glazio. There are a number of paintings more or less fairly representative of deceased artists who have left behind them fame if not fortune, such as Corot, Courbot, Danby, Diaz, Troyon, Verschuur and others.

Help Yourself. If dyspeptic, by using Hostetter's Stomach Bitters with persistence. Chronic indigestion is not conquerable in a day, but it will certainly yield to the fine stomachic with reasonable rapidity. So will malaria, biliousness, nervousness, incipient rheumatism, neuralgia and kidney trouble. It invariably improves appetite and promotes sleep.

TERRIBLE cut in prices. Call this week and see the cut rates on watches and marble clocks at Hatch's, No. 295 Fifth ave. WBS

MONDAY MORNING, March 17, 1,000 pieces of dress goods go at about half price. No humberg. KNABLE & SHUSTER, 35 Fifth ave.

THE RETURNS on the New York Life Insurance Company's tentative policies have been unsurpassed by those of any other company.

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Advertisement for BROOKE'S CRYSTAL SOAP. Features a man pointing to a sign that says "What makes this change?" (Coriolanus). The sign also says "BROOKE'S CRYSTAL SOAP". Below the sign, it says "Won't wash clothes". At the bottom, it says "Makes Tin like Silver, Copper like Gold, Paint like New, Windows like Crystal, Brassware like Mirrors, Spotless Earthenware, Marble White as Driven Snow. EVERYWHERE 5c. A BAR."