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Scientific American.

Miscellaneous.

Carrier Pigeons.

Mr. John Galloway publishes a letter in the Manchester Guardian (Eng.), wherein it is commenting on the reported arrival of the two carrier pigeons from Sir John Ross, in which we find something very interesting relative to those birds. He says "an express flyer of pigeons would just as soon think of tying a letter to a bird's tail, as under its wing. The practice is to roll some fine tissue paper neatly round the leg, secured with thread or silk; and thus the bird can travel, without the paper causing resistance or impediment to its flight. Then, more marvellous still, the creature must have flown 2,000 miles! a considerable distance of which must have been over snowy or frozen regions. In modern times, no such distance as 2.000 miles have been accomplished by any trained carrier pigeon. The merchants and manufacturers of Belgium have done more to test the capabilities of pigeons than any other people. Their annual pigeon races produce an excitement almost equal to our horse races. In 1844 one of the greatest races took place, from St. Sebastian, in Spain, to Verveir. The distance would be about 600 miles. The printed programme in French I hand for your perusal. Two hundred trained pigeons, of the best breed in the world, were sent to St. Sebastian, and only 70 returned. In another race to Bordeaux, 86 pigeons were sent and 20 returned. A strange and mistaken notion prevails that it is only necessary to send a carrier pigeon away from home and that its instinct will invariably lead it back. Let any one try the experiment, and send the best-bred carriers at once to Birmingham, and I venture to assert that not one will return to Manchester without previous training-viz., taking them short distances at a time and then increasing by degrees. It has been asserted that pigeons are guided on their return home from long distances by instinct. Instinct is said to be unerring; not so the pigeon's flight. If instinct be the guide, why not fly through foggy weather with equal speed and felicity as in clear sunshine? This it is notorious they cannot accomplish. When the ground is covered with snow, pigeone seem to miss their points of guidance, and are lost. This would seem to favor the opinion that they travel by sight, and are less indebted to instinct than is generally imagined. Carrier pigeons do not fly at night; they settle down if they cannot reach their home by the dusk of evening, and renew their flight at daylight next morning. The velocity of a pigeon's flight seems to be greatly over-rated; and, no doubt, your readers will be surprised to learn that a locomotive railway engine can beat a

sun, are of a brown olive complexion, particu-Mr. James Frost, of Brooklyn, delivered a describing the thing as it is said to be." neer of the N.Y. and Erie Railroad, that larly the females. The greater part of the lecture at the American Institute, on Thurs-[This telegraph, we apprehend, is well naa line of wire for an exclusive telegraph of the Mulattos, or yellow colored people, are in Chi- day evening, last week, on his new discovery med the "Snail Telegraph." France is a railroad, has been laid down. This is a na and Eastern Asia. The copper or bronzeof Stame, (steam heated apart from water,) great country for new discoveries. We would measure which he recommended two years which was described in our last volume. The colored Indians, are nearly all in America .not have noticed the above, only we have seen ago. This is a right worthy measure, and one The Burmans, Malays, and Australians are audience was small but respectable. The lecit copied into a number of papers. It is a which we have advocated, about the same time, mostly dark brown or tawny; the central and turer illustrated his subject by experimente, nearly. Every railroad in our land should The principle of this discovery is, that steam, southern Africans and Hindoos, jet black. have an exclusive telegraph, more especially Explosion of a Steam Boiler. heated apart from water, doubles its volume Glass Palace for the Industrial Exhibition. those who have no more than a single extend-At 7 o'clock, last Saturday morning, the with about every four degrees of heat. Mr. It will not do for our people to call Uncle ed track each. We rejoice to know that with our boiler of the steam propeller Resolute burst, Frost has an engine with a boiler, the steam John Bull a slow fellow, or to call the Enggo-ahead people the telegraph has been signalwhile lying at pier No. 13, East River, this of which is carried through hollow grate bars, lish a people fond of sticking to old things, ly successful, but we are no more than in the city. The engineer, William Shepard, was to test the experiment. As Mr. Frost's pam--they are the reverse. The London Glass Painfancy of telegraphing. We learn that one killed on the spot, and four others were so lace, for the Grand Exhibition, will be one of phlet was published, nearly in full, in our last of our Telegraph Companies, whose wires badly scalded that they have since died. The volume, we refrain from saying anything more the seven wonders-the greatest wonder of extend between New York, Philadelphia, Balboiler was considered safe, according to an inabout it. the Fair. To add to its decorations, a propotimore, and Washington, with stations at all spector's certificate, obtained a few days ago, A person in this city has engaged to build sition, and a good one, has come from Amerithe intermediate places of any consequence, but the cause was over-pressure, there can be a yacht of 150 to 180 tons, to be ready to sail ca. The London Times sava have increased their facilities for the prompt no doubt of that. "We have seen a letter addressed to the during the World's fair in London, and to beat transaction of business, and have also made Commissioners, from which the following cu- any vessel brought against her, or the builder Harvard College has, this year, 311 profesarrangements by which persons travelling sional students and resident graduates, and rious particulars are gathered :- Benjamin is to receive no compensation for his labor, through the places of any of the Telegraph Hardinge, of Cincinnati, has proposed to cov. | otherwise he receives \$30,000. Way Stations, can telegraph to any other 293 under-graduates-total 604.

place along the line, without having to leave the cars. A boy will pass through the cars desired place.

A Snail Telegraph." Wonderful Discovery The Paris corrospondent of the Literary Gazette writes :- "I have an astounding announcement to make to you, the marvels of the electric telegraph are annihilated, and the means of instantaneous communication betweenman and man, at any distance whatsoever, to the extremities of the earth, has been discovered ! Yes, the last and most majestic of human discoveries has fallen from its height almost at the very moment at which it dawned on the world, and it is replaced by one a thousandfold more glorious, and which, if it only partially realise the commencement, will totally change the face of the world ! And the means by which this wonderful thing is done are even more wonderful than the thing itself; snails, aye, snails, galvanic and magnetic influence! Do not think that I am hoaxing you, it is on the authority of the Presse' that I speak, one of the most important newspaper organs of Europe, in talent, character and circulation; and it is not to be believed that such a journal would be a party to an impudent and stupid attempt to bamboozle the public. In its numbers of Friday the 25th, and Saturday the 26th ultimo, there are two feuilletons signed by M. Jules Allix, No. 92 Rue Richelieu, roundly, formally positively asserting that the secret of effecting instantaneous communication, without regard to distance, and, consequently without continuous lines, as in the electric telegraph, has been brought to light; nay, more, that on the 3rd of this present month a question asked at the said 92 Rue Richelieu, received an almost immediate reply from the depths of America ! and that this was done chiefly by the instrumentality of snails ! The inventors or discoverers of the alleged marvel, are a M. Benoit, of the department of the Herault, and a M. Biat, of America. After many years observation and experimentalism, they, it is asserted, have ascertained that certain descriptions of snails possess peculiar properties or sympathies, which cause them to feel, no matter at what distance they may be, the sensation, or commotion, when acted on in a particular way by galvanic and magnetic influences.

Placed in boxes in such a way that, on being touched, they agitate particular letters, the operator has only to make snail A give a kick (sic) and snail A in a corrosponding box, which box may be in the backwoods of America or the deserts of Africa, repeats the kick, and so on for every letter of a required word. The

Form of the Blast Furnace. Sir-I am aware that the old form of the at each station, and receive the dispatches, so old blast furnace, with flat boshes, was conthat it will only be necessary for travellers to sidered to give a necessary support to the have their dispatches written before the cars materials, and the assertion has been received stop, to secure their being safely sent to the as a truth, without any particular inquiry into the fact. But I think this opinion may easily be seen to be an error in every case, and that they never afford any greater degree of blended rainbow tints, which are said to be support, though a great deal of obstruction. If a perpendicular is erected from the edge of light, which supersedes the heretofore contemthe hearth in the section of a furnace of this plated blinds. The expense is comparatively construction, until it meets the side wall of small, the material being composed of quartz the lining, a triangular space will appear, or white sand, dissolved in large quantities forming in the filled furnace a prism of materials, the base resting on the boshes, so that as the mass tapers upwards, the smallest rals, &c. It is said to be the cheapest finish possible quantity of matter is supported. If another line is drawn upwards from the same point at an angle representing the course of the rushing blast in its expansion, a second prism will be displayed, lying behind, out of the direct action of the blast, in which dust, and all the semi-liquified requisites for scaffolding, used to effect a comfortable lodgement. This line, in a properly constructed furnace, will coincide with the lining, and if the first line be erected in the section of such a furnace, sufficiently widened above the boshes, a space will appear, which, taken in connection with the wider diameter, exhibits fully three times the cubical contents, as being supported by the boshes, and bearing directly upon the centre of motion. The truth is, it was discovered to be necessary to have the furnace of considerable wider diameter than the hearth, in order to prepare the materials; that enlargement was obtained in the way most convenient to the builder, without the least reference to principle, and its defects perpetuated by imitation. In Mr. J. Gibson's pamphlet "On the Construction of the Blast Furnace," he details the observations which led him to question the propriety of his form of structure; and having matured his views, he staked them on the construction of an entirely novel furnace, taking the action of the blast as his guide. The bold experiment proved most successful, effecting a saving of 30 to 50 per cent. in the fuel alone. His plans soon became general in Staffordshire, and are spreading throughout the kingdom, but in very numerous cases by the mere force of imitation, with as little knowledge of the origin and principles of the improvement, as had previously existed regarding the meaning and demerits of the old DAVID MUSHET. construction.

> [The above is a letter of Mr. Mushet to the London Mining Journal, and will be of considerable interest to many of our readers. Mr. Mushet is well known to be one of the most experienced mineralogists in the world.

The Complexion.

There are are six or seven various complex snails must of course previously be put in and gold. They have succeeded in raising carrier pigeon in a distance of 200 miles." ions of the human race, but they imperceptisympathetic communication, and the boxes, one of her anchors and the anchor and cable Pigeons have been extensively used in bly approach, and are lost in each other. The with all their apparatus, which is rather comwhite and brown complexions include the Eu- of another company who had made an unsuc-America, for carrying the news about the plicated, must be alike. The shock which the cessful attempt upon the wreck. They also drawings of lotteries, and the news by mail ropeans, Western Asiatics, Chinese, Tartars, snail in box 2 feels is said to be caused by an recovered portions of the machinery, some gold from Halifax. The telegraph has destroyed Northern Hindeos, and Africans, the Angloelectric or magnetic fluid, carried by the earth and copper, and human bones of the ill-fated the business of pigeon training-the flying ex-Americans, Spaniards, and descendants of Euwith extraordinary rapidity, and in a manner passengers. They are sanguine of recovering press has given way to the lightning one. ropeans in all parts of the Torrid or Middle unknown to man; in other words, it is the the safe as soon as the weather will permit Zone. Many of the higher classes in the troelectric telegraph without the connecting wire. Railroad Telegraph. pical regions, who are not much exposed to the Stame---Steam. All this seems absurd, does it not? but I am We have been informed by Mr. Post, engi-

er the iron columns, pilasters, entablatures. &c., with a kind of porcelain or variegated enamel, giving them all the richness and beauty of the choicest polished marble and precious stones, viz., the agate, chalcedony, jasper, and other silicious formations. He also proposes to apply liquid silicates to the glass, in variegated colored crystals, in prismatic or softly translucent and beautiful; giving a mellow through the agency of hydro-fluoric acid and other solvents, the colors of oxydes of mineupon iron, or other substances, ever before known; and is applied withgreat facility, and so hard as not to be moved by a file."

Mr. Hardinge is now at the Howard Hotel, superintending his chemical works in the north part of this city.

World's Fair in London

The slow Committee appointed by Gov. Fish, for the State of New York, to examine articles intended for the World's Fair. are to meet at the American Institute on the 3rd Dec., at which time all persons residing in the State of New York, intending to exhibit at the World's Fair, must make known their intentions to the Committee, and receive its sanction, otherwise their articles will not be received at the Fair in London.

The Government vessel which is to convey articles from the United States to the Fair, will sail from the city of New York on or about the 10th day of January next. Vessels engaged in the Revenue service of the United States will be detailed by the Secretary of the Treasury for the purpose of conveying to N. Y., all articles from the various seaports along the coast, to be shipped in said vessel.

We understand that arrangements have been made at the Navy Yard, Brooklyn, to receive and store all goods, until ready to be shipped.

Wreck of the Lexington.

We find in the Boston Daily Mail an interesting account of the operations of Mr. J. E. Gowan, of that city, upon the wreck of the ill-fated steamer Lexington, which was burnt and sunk off Huntington Light, in Long Island Sound, Jan. 13, 1840. By means of their celebrated sub-marine armor and diving apparatus, a complete survey was made of the wreck, which was found in twenty-one fathoms of water, or one hundred and twenty-six feet below the surface. The hull was found full of mud, and completety "honey-combed" by worms, lying by a reef of sand which had been thrown up by the current, running N. E. and S. W. Their object was the recovery of a safe containing the sum of \$80,000 in bills