

SCIENTIFIC MISCELLANY.

What Has Lately Happened in the Scientific World.

A NEW FLORA.—The luxuriant vegetation of Krakatoa was totally destroyed by the eruption of 1883, not a living germ being left. Three years later the island was visited by Dr. M. Treub, who now reports having found six pieces of microscopic algae, which coated the rock and seemed to have formed the soil on which eleven species of fern had taken root.

HOMES OF ALL AGES.—An interesting feature of the Paris Exhibition will be a group of forty-nine structures intended to give a history of the human dwelling. The different types of shelters represented will include those of the prehistoric period—under rocks, in caves, on water and on land; and from later times those of early historical civilization, of Aryan civilization, of Roman civilization in the East and in the West, and in rude civilization disconnected from the general progress of humanity—the Chinese, Japanese, Eskimo, African, Aztec, etc.

INTELLECTUAL INFLUENCE OF THE NOSE.—Aprosexia is the name Dr. Guye, of Amsterdam, chooses for inattentiveness, and he quite singularly finds that the nose is one cause of it. A dull boy became quick to learn after certain tumors had been taken from the nose; and a man who had been troubled with vertigo and buzzing in the ears for twelve years found mental labor easy after a like operation. In a third case a medical student was similarly relieved. Dr. Guye supposes that these nasal troubles affect the brain by preventing the cerebral lymph from circulating freely.

BOILERS EXPLODED BY GAS.—After prolonged official investigation, the most extensive and complete destruction of steam boilers on record has been attributed to the sudden igniting of coal gas, mixed with air, that had accumulated in the flues. The explosion occurred July 25, 1887, in Upper Silesia, Germany. Twenty-two boilers, each with more than 1000 square feet of heating surface, were instantly blown to pieces; buildings covering half an acre were destroyed, and three men were killed.

A MECHANICAL NOVELTY.—The remarkable Mannheim process of making seamless tubes is described by Mr. F. Siemens as consisting in passing the red-hot bar of solid metal or glass between revolving conical rolls. These rolls are so arranged that the varying velocities of revolution with which the different parts of the bar are brought into contact cause the formation of a hollow through the bar's center. Tubes a foot in diameter, with a shell only a quarter of an inch thick may be produced in this way, and great strength is claimed for them. Tubes with sealed ends may be made, the hollow center being a vacuum.

THE ELECTRIC AGE.—Prof. Elisea Gray remarks that electrical science has made a greater advance in the last twenty years than in all the 6000 historical years preceding. More is discovered in one day now than in a thousand years of the middle ages. We find all sorts of work for electricity to do. We make it carry our messages, drive our engine, ring our door bell, and scare the burglar; we take it as a medicine, light our gas with it, see by it, hear from it, talk with it, and now we are beginning to teach it to write.

ONE YEAR CLOCKS.—An important improvement in clocks has been shown the British Association for the Advancement of Science by Mr. W. H. Douglass. The new feature is the torsion pendulum, which, with lever and escapement, may be applied to ordinary works, and by its slow rate of vibration makes practicable the conversion of an eight-day clock into one requiring winding only once a year.

WASTE OF ENERGY.—In the ordinary sixteen candle power incandescent lamp, according to Prof. E. Merritt, only from four to six per cent of the energy actually expended is available as light, the remainder being wasted as heat. To lessen this loss is one of the greatest electrical problems now awaiting solution.

FUTURE SCIENCE.—"What would one not give," asks Lubbock, "for a science primer of the next century? for, to paraphrase a well-known saying, even the boy at the plough will then know more of science than the wisest of philosophers do now."

DELICATE MEASUREMENT.—The new radio-microscope of Mr. C. V. Boys—a thermo-electric circuit suspended by a torsion fibre in a magnetic field—shows a temperature change of one ten-millionth of a Centigrade degree.

PHOTOGRAPHIC PROGRESS.—Among recent camera achievements is a portrait copy taken by the light of a Cuban firefly in thirty seconds, and a photograph of the aurora borealis. To obtain the latter had been declared an utter impossibility.

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NOTICE TO CONTRACTORS.

Bids will be received at the office of the town surveyor until noon on Saturday, December 21, 1888, for grading Tustin street from the east side of Litch street to the west side of Walnut street, in accordance with the town ordinances and the established grades of said street. The estimate of said work can be seen at the office of the town surveyor. All bids must be accompanied by a good bond to the town of Pendleton in the sum of \$200 as a guarantee of the good faith of the bidder, or cash, and payable to the town of Pendleton in case said bid is accepted by said town, and said bidder shall fail to enter into contract and give sufficient bond for performance of said work. J. B. WILSON, Town Surveyor.

DISSOLUTION NOTICE.

Notice is hereby given that the firm Estes & Guide, proprietors of the City Livery stable, is this day dissolved by mutual consent. W. H. Estes retiring from said firm. The business will hereafter be conducted by J. A. W. Guide and J. A. Corry, who will assume all liabilities of the firm of Estes & Guide. All bills due said firm will be collected by J. W. Guide, and must be paid immediately or costs will be added. Thinking the public for past favors, we solicit a continuance of the same for the new firm. Dated at Pendleton, Or., Dec. 8, 1888. W. H. ESTES, J. W. GUIDE.

LOST OR STOLEN.

From a hitching-post in Pendleton, Saturday, November 12th, a small, chunky, bay horse, with a blazed face, branded C O on the right thigh. Horse was saddled and bridled at the time. Ten dollars reward will be paid for his return, or information leading to his recovery by ALBERT FREER, 1027 1/2 W. B. Pendleton, Or.

DISSOLUTION NOTICE.

Notice is hereby given that the firm of Bailey & Barber, sheep men and stock raisers, has dissolved by mutual consent, John Bailey retiring from the firm. Joe Barber will continue the business, pay all debts, and collect all accounts. Dated at Pendleton, Or., Dec. 5, 1888. JOHN BAILEY, JOE BARBER.

ADMINISTRATOR'S NOTICE.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of E. M. Alter, late of Pendleton, Columbia county, Oregon, deceased, and has qualified as such; and all persons having claims against said estate are required to present them with proper vouchers to the undersigned, such administrator, in Pendleton, Oregon, within six months from the date hereof. Dated December, Or., Dec. 7, 1888. J. M. LEEZER, Administrator. RAMSEY & WAGNER, Attorneys.

TO WHOM IT MAY CONCERN.

All persons knowing themselves indebted to the undersigned, hatcher, at Adams, Oregon, are hereby notified that they must call and settle on or before January 1st, 1889, as on that date all unsettled accounts will be passed in the hands of a justice of the peace for collection. A. MILLER, Adams, Or.

DISSOLUTION NOTICE.

Notice is hereby given that the firm of C. A. Frazier & Co., is this day dissolved by mutual consent, C. A. Frazier having sold his interests to Wiley Frazier, who will continue the wood and dry business at Pendleton, Or., and collect all accounts and assume all liabilities of the firm of C. A. Frazier & Co. Given under our hands and seal this 6th day of December, A. D. 1888, at Pendleton, Or. C. A. FRAZIER, WILEY FRAZIER.

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