

FOREIGN SCIENCE.

High Temperature. In a paper addressed to the Paris Academy of Sciences, M. Schilling describes an apparatus of his contrivance for obtaining temperatures of extraordinary intensity from illuminating gas. The conditions necessary for this purpose he states as follows:—

First. Combustion without excess of air or gas totally effective within the space to be heated; and second. A large supply of the combustible gas sufficient to maintain the high temperature, notwithstanding loss of heat from the chamber or other causes. To satisfy these two conditions, he injects into a pipe of equal diameter three or four centimeters a large blue flame, the calorific power of which does not appear to be more intense than that of a common blow pipe of equal dimensions; but if the flame penetrates into a retort or envelope without drawing in any excess air, the flame becomes shorter, and the combustion is entirely effected in a narrow space. No explosion is to be feared, but the gas must have a proper outlet from the furnace.

Pontoon Generation. While M. M. Pouchet, Joly, and De Masset are setting after the conduct, or sharpening their blades for a new campaign, the war on the continent continues the war on its own account with M. Pasteur. A few weeks ago the latter gentleman reluctantly replied to M. Meunier's attack, objecting to the manner in which his experiments had been conducted. M. Meunier now comes with a rejoinder founded upon a new series of experiments, the results of which will be best understood from his "conclusions." He says:—

First. That M. Pasteur is mistaken in saying that any balloon provided with a bent neck must be barren, because the atmosphere of the neck prevents the entrance of the bacilli germs, for he now shows that the bent neck must be barren or fruitful, according to the pressure substance introduced into it, and that whether the neck be straight or bent, the result is the same. Second. That M. Pasteur's fundamental argument, that since balloons filled with air in a certain and uniform manner, and sometimes does and sometimes does not contain germs; to which M. Meunier replies that as balloons with bent necks present quite a different result, as those with straight ones, while no germs can get into the former from the air, it follows that the air has nothing to do with it.

A New Motor. The London Science speaks of a recent trial of a new principle of the propeller, applied to vessels, and the hydraulic engine, called the "Ruthven" patent. The "Nauticus," to which the power has been applied, was built expressly to show that it can, with less horse-power than ordinary river boats, attain a high speed. She started from Vauxhall-Bridge Pier at eleven o'clock in the morning, and ran up and down the Thames in company with other river steamers, and held way with them steadily, gaining a little on some. She ran between the London and Westminster Bridges, with the wind and tide, in 4 minutes 28 seconds, and against in 8 minutes 22 seconds, being at the rate of 13.5 and 7.2 miles per hour respectively, or at the average speed of 10.35 miles per hour. She then returned down the river, with both stern wind and tide in her favor, going at full speed, was made to stop suddenly by reversing the valves. She stopped dead in less than ten seconds, and then about a quarter of her length. The new propeller is nothing more nor less than water taken in under her bottom, and set in motion by simple machinery worked by a steam engine, and the water is discharged in the stern, and the water in the vessel; consequently, there is nothing outside the vessel to be injured by any accident. Another important novelty is that the vessel is quite independent of her rudder, and is worked under the control of the master, and the officer of the watch, or man on deck, without any communication with the engine.

Photography. The following are new methods introduced in France. The salts of uranium now attract particular attention, and the following process is recommended by M. Leroy Gales:—Dissolve 335 centigrams of nitrate of uranium in 150 cubic centimeters of water; to this solution add a saturated solution of bicarbonate of soda, stirring constantly, until the liquid has become quite alkaline. A yellow precipitate is soon formed, which is filtered, and the mother liquor, which so much distilled water is added to the liquid as will bring it to 185 cubic centimeters. This author calls solution No. 1. Solution No. 2 consists of 97 centigram of chloride of silver dissolved in 185 cubic centimeters of water. One ounce of No. 1 is added to the No. 2, and the mixture is allowed to stand for a few days. The colloid thus obtained will keep a long time in the dark; it is spread out as usual in a thin layer, left to dry, and then employed when required. Nitrate of silver, which is extensively used in photography, is by no means sold in the shops in a pure state, and photographers who wish to produce superior copies should therefore purify it. The following is the method of Lyte's process for the purpose:—The trade article is first partially purified by crystallization; it is then redissolved to saturation in boiling water, and one per cent. of nitric acid is added. The liquid is constantly stirred while cooling. A crystalline powder is gradually deposited, which is collected on a filter and washed with water acidulated with ten per cent. of nitric acid. The salt thus obtained is chemically pure.

Miscellaneous. At a recent sitting of the Paris Academy of Sciences, information was communicated in regard to the volcanic phenomena of the island of Santorino. According to the accounts received from this source, the convulsion is on the increase, and several small islands have made their appearance around the island of Santorino. King George's promontory is in full eruption, its flames being visible from the sea at a distance of fifty miles. A vessel having gone too near, a certain quantity of volcanic matter fell on her deck, killing or injuring several of the crew. M. Ch. Deville has discovered that the substances capable of dissolving gold is much greater than has generally been believed, and comprises all etherized perchlorides, perchloride, and peroxide; also the unstable sesquichloride, sesquibromide, and sesquiodide, and iodine in a nascent state.

INSURANCE COMPANIES.

DELAWARE MUTUAL SAFETY INSURANCE COMPANY. INCORPORATED BY THE LEGISLATURE OF PENNSYLVANIA. OFFICE 8 E. CORNER THIRD AND WALNUT STREETS. MARINE INSURANCE ON YVESSELS. To all parts of the world. FREIGHT AND EXPENSES ON GOODS BY RIVER CANAL, LAKE AND LAND CARRIAGE ALL PARTS OF THE UNION. FIRE INSURANCES ON Merchandise generally, On Stores, Dwelling Houses, etc.

ASSETS OF THE COMPANY. \$100,000 United States 5 per cent. loan, 71,000,000 100,000 State of Pennsylvania 5 per cent. loan, 50,000 100,000 State of New York 5 per cent. loan, 50,000 100,000 State of New Jersey 5 per cent. loan, 50,000 100,000 State of New Hampshire 5 per cent. loan, 50,000 100,000 State of Vermont 5 per cent. loan, 50,000 100,000 State of Maine 5 per cent. loan, 50,000 100,000 State of New Brunswick 5 per cent. loan, 50,000 100,000 State of Nova Scotia 5 per cent. loan, 50,000 100,000 State of Prince Edward Island 5 per cent. loan, 50,000 100,000 State of British Columbia 5 per cent. loan, 50,000 100,000 State of California 5 per cent. loan, 50,000 100,000 State of Oregon 5 per cent. loan, 50,000 100,000 State of Washington 5 per cent. loan, 50,000 100,000 State of Idaho 5 per cent. loan, 50,000 100,000 State of Montana 5 per cent. loan, 50,000 100,000 State of Wyoming 5 per cent. loan, 50,000 100,000 State of Colorado 5 per cent. loan, 50,000 100,000 State of Arizona 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