boilers, 450 steam-engines (representing together 18,500 horse-power), 1622 machine-tools, 21 rolling-trams, involving a consumption of 3100 tons of coal and coke by the 1648 furnaces, whose draught is through chimneys of which one is 280 feet high, with a diameter of 30 feet at the bottom."

Mr. Conway was admitted by very special privilege for the purpose of writing this article. The works are rigidly closed to the public. "I once visited," he says, "the Cyxarthxa Iron-works in South Wales, in company with Emerson, who, after gazing upon the lurid scene, said, "Surely, Milton must have drawn his pandemonium from some such place."

In these vast and weird halls at Essen, all the Infernos ever imagined by man, save Shakespeare's "thrilling region of thick-ribbed ice," seem collected and seething together.

It is a rather sad commentary on the boasted Christianity and civilization of the nineteenth century, that these great works are chiefly known the world over for the production of killing apparatus of greater power than ever was invented before. Perhaps, however, this is one step in the reductio ad absurdum of war.

There is a full-page portrait of Krupp; and, as might be expected of the portrait of this king of labor, the builder up of the "largest business in the world dependent on an individual," it is a very powerful face.

Harper's has also a charming illustrated paper on one of the most beautiful cities in America, Cleveland.

The Cornhill for February has a paper on "Whist, Rational and Artificial," which will interest all players of that noble game. It is a protest against the refinements and corruptions in the way of "signaling" and the like which have of late been introduced into it—a protest against the present writer, who is something of an old fogy, feels a good deal of sympathy. The writer passes recent books in review, and apropos of the "Whist Development" of "Cavendish," he is tempted to exclaim, "It were better for whist if 'Cavendish' had never been born." The modern developments of the game, he declares, "tend with accumulating force to spoil it;" and old-fashioned folks will be inclined to agree with him.

W. P. A.

Inattentive youth: "What is the French for to-morrow?"

Hard student: "Demain, of course."

List of Publications, M. I. T.


EDMANS, J. RAYNER ('69).—A Monument to De Saussure. Note. Science, VII. (1886), 119.


---(Published since the death of Mrs. Holman.) Food, and the Effect of Cooking. Christian Union, XXXIII. (1886), No. 3, p. 12; The Action of Yeast and Baking Powders. Id., No. 4, p. 12; Domestic Poisons. Id., No. 5, p. 12.


—Construction Report of the 12-inch Cast-iron Breach-loading Rifle fabricated by the South Boston Iron Works, during the years 1883-1885. Id., Appendix 24, (165.)


---Report on the manufacture of 8-inch chilled projectiles. Id., App. 38, (403.)


---(With same.) Experimental Cylinder from the 12-inch Cast-iron Rifled Mortar hooped with steel. Id., App. 26, (209.)

