SIR HENRY BESSEMER AND THE STEEL AGE.

SIR HENRY BESSEMER, the inventor and metallurgist, died in London March 14. The death of this great man brings a realizing sense of the importance of his contribution to the world's progress, revolutionizing

as it did, many vast industries.

Sir Henry was born in Hertfordshire, England, in 1813. From his earliest youth he was fond of modeling and designing, and at the age of twenty he was an exhibitor in the Royal Academy. He had always leaning toward mechanical pursuits, and when he was demonstrating t the French military authorities at Vincennes the results of his system firing elongated projectiles from high smooth-bore cast-iron guns, Com mander Minie said: "Such projectiles will be of little use if you cannot get stronger metal for your guns." This led Sir Henry to consider the possibility of extending his researches to the kinds of metal most suitable for artillery purposes. At first he did not have the least idea of how he was going to do it, as the science of metallurgy was not familiar to him but he was not daunted, as he worked on the theory, which is sometimes a good one, which he formulated as follows: "I find that persons wholly unconnected with any particular business have their minds so free and untrammeled to view things as they are, and as they would presen themselves to an independent observer, that they are the men who even tually produce the greatest changes."

He studied all the literature on the subject and visited large mans facturing concerns to judge of the defects of the methods then employed He then began experimenting in London, and after a year he produce a cast iron almost as white as steel. He made a small gun of this metal which he took to Paris and presented to the Emperor Napoleon III., wh

encouraged him to keep up his experiments.

Sir Henry continued his labors, taking out patents for each improvement, and at the end of eighteen months the idea struck him a rendering east iron malleable by the introduction of atmosphem air into the fluid metal. His first experiment was made in a crucible in the laboratory. The samples produced were so satisfactory that facilities were offered him at the Woolwhich Arsenal, and the first sample of "Bessemer" steel rolled was preserved by Sir Henry as a memento. He took out a patent embodying his idea in Otber, 1855. His experiments brought on a severe illness, and after he recovery he built a large experimental plant at Saint Pancras, London with a converter three feet in diameter and five feet high. The classitial rendered famous the premises once the home of Richard Baxter. The engine forced streams of air under high pressure through the bottom of the converter, and the workmen were told to pour in the melted iron Instantly came a dazzling shower of sparks and the dangling lid melta in the fierce heat. The air cock was beside the converter and no one

lared to pleted an Besseme At the was publis that the I wears. Si and he werowned he world. 120 patent even voluments were were work was seen was seen work was seen work was seen work was seen was se

The foll an address semer Med the Besser found extr

American.

po not pr process to hink it wo on the eco considerati ank with he time of of the mag of the stea belong to examples of rom mater by these di world even t is quite ions, the and the r high praise ments, but conclusion he higher matic proc traced, alt

imaginatio