BLAST FURNACE RUNS
MADE BY SENIORS

Course III Men Extract Metals
From Ore by Various Processes.

During this term the Seniors in Course III have made several blast furnace runs, crushing and milling various ores. In the first kind of run a lead ore was used by coke which resulted in an impure lead con-
taining a small per cent, of silver. This was refined later in a large cupel, and the silver extracted by means of zinc. When copper ore was used the metal was collected in a mut-
tar which is a combination of sulphide and copper sulphides. In the roasting runs, copper was roasted in either a mechanically or a hand-rabbled reverberatory, and the metal refined in another furnace. The lead ore used in the mill run first went over a trommel or screen which separated it into two sizes over and under two mm. in diameter. The oversize went to a jig which separated the gangue from the galena and the undersize went to a Richards free-setting classifier, invented by Prof. Richards. The classifier gave three sizes of products. The first was composed of a jig, the second by a Wil-
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