"THE CITY WITHOUT A CHURCH," BY GIFFORD

Best Christian Association Talk
Of the Year Given Before Large Audience.

Yesterday, in the Union, the T. C. A. presented one of the best speakers that has spoken before the men thus far this year. It was Dr. O. P. Gifford, of the Brookline Baptist Church. His subject was, "The City Without a Church." He told of the vision of John, where he saw the New Jerusalem, which was fifteen hundred miles square and fifteen hundred miles high. In this immense city he saw no church. This only furnishes an excellent excuse to the man who likes to stay in bed on Sunday morning, because he says to himself, there is no church in the ideal city, why should there be churches here. Dr. Gifford explained this point in the following manner. He said, that no man could enter this city who lives or makes a lie. This city is guarded by twelve gates, through which no man can enter unless he conforms to the specifications. When this city is composed of these ideal men it is simple to see that no church is needed. It is absolutely necessary that men attend some church before they are allowed into the gates, or conform to these necessary specifications.

He mingled many witty remarks with his talk, one of them being a boy's definition of a lie. "A lie is an illusion in the sight of the world, but a very pleasant thing in time of need." He said that he knew a mile-toper who said that he had no interest in the ball business because he was incomparable. He also showed that art and beauty find their greatest expression in church and cathedral architecture, and has for many centuries.

STOUGHTON ON STEEL.

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hour it begins to melt; at the end of three hours it is wholly in the molten condition; but it is allowed to sit for another half hour in order to insure the presence of oxygen. The pots are then dragged out, the slag skimmed off, and then poured into the greatest number of molds. When cooled, the molds are broken open, and it is again taken to the furnace, where it is heated white hot, after which it is hammered and welded again until it is in condition for the converter.

Until recently the Bessemer process was used almost exclusively, but on account of the large amount of phosphorus which is left in the iron the open-hearth method has not been generally adopted. In the Bessemer process the converter is lined with silicon, the charge is poured into the converter and it is again taken to the furnace, where it is heated white hot, after which it is hammered and welded again until it is in condition for the converter.

In the short space of twelve minutes most of the impurities are turned out, the control being regulated by the appearance of the flame. Carbon is added to the iron during the process to give strength; manganese to form the slag through the oxygen, which carries the impurities out.

The impurities are oxidized, the silicon, carbon and manganese passing into the slag. The carbon burns to form carbon monoxide, which unite with the oxygen of the air to form carbon dioxide and pour out in a steady stream at the top of the converter.

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