H. S. Smith and R. T. Haslam Investigate Process Not yet Commer- cially Practicable

RECOVERY OF SUGAR
TAKEN AS THESIS

For the subject of their thesis work, Mr. H. S. Smith, '11, and Mr. R. T. Haslam, '11, are pursuing under the direc- tion of Mr. Rollie R. Sanger, the recovery of sugar from beet sugar molasses. The method now in general use for com- mercial purposes, that of boiling down the molasses and recovering the sugar by crystallization, recovers not more than fifty per cent of the sugar in the molasses. By the method investigated by Messrs. Smith and Haslam, all, or at least ninety seven per cent of sugar can be recovered.

Barium hydroxide is added to raw molasses and precipitates barium mono- carbonate. The mixture is filtered and made a cream, carbon dioxide is passed through the cream, which precipitates the barium, and the barium is then removed as barium carbonate, leaving the sugar in solution. Great care must be taken here to remove all of the barium from the sugar as barium is poisonous to the human body.

The barium carbonate of its expense, is removed from the barium carbonate at this stage of the procedure, by an elution furnace, and in the form of barium mono- carbonate. The mixture is filtered and made a cream, carbon dioxide is passed through the cream, which precipitates the barium, and the barium is then removed as barium carbonate, leaving the sugar in solution. Great care must be taken here to remove all of the barium from the sugar as barium is poisonous to the human body.

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THE TECH

Communicating with "T. I. M.", The Tech seems to call for an explanation. The communication had to do with the suspending of the use in those 1914 men whose dues are almost seven months over due, which T. I. M. believes is "co-ercion." The following statement of conditions may help to explain the situation.

The efforts of the treasurer and the appeals made by former class meetings have yielded some results, but the amount collected is not sufficient to pay the school expenses of Fraternity Day expenses. The treasurer has asked for various things, such as a baseball team, a freshman theater party and supper, and other things such as would not require a large outlay. Like the baseball team, so also the country band needs a small sum of money which is not available. Without such material as 1914 has, there seems to be an object with that the names of those not paying dues shall at least be known to those members of the class, who have contributed their share to defray general expenses. In "T. I. M."'s communication the objection was brought that some names in the class were starving and actually could not pay the $1.20 which they owe. There is room for doubt as to that. At frequent intervals when all men in the class are suddenly told to pay some tax, book of which they did not know at the beginning of the year, they manage to get the money somewhere, somehow and pretty quick at that. The class treasurer, it seems, might be remunerated on such occasions. However, if there be any who are in such distressing need, that they must disregard their class, it will such the treasurer know of the fact, their names will not be published, should that method be resorted to. There is no desire on the part of the Executive Committee to "co-erse". Field Day and other Tech traditions make certain expenses necessary to uphold the honor of the class. For this reason the class voted to pay certain class dues. In the main, the names of these men will be published, and in taking their offices the officers of this class promise to collect this money and use it as economically as they can. The present effort to collect the dues is only carrying out the plan. T. R. Keogler.

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Mr. Robert H. Magnac, Proprietor, has given a day for the Promees and to all his friends.

The Tech Barbers
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