PROCEEDINGS OF THE AMERICAN CHEMICAL SOCIETY.

Room 1, *University Building, February* 3, 1882.

The meeting was called to order at 8.20 P. M., Prof. A. R. Leeds in the chair.

The minutes of the previous meeting were read and approved.

The report of the Board of Directors was then read.

The Librarian then stated that he had received the missing numbers of the Berichte der D. Chem. Gesell. along with a number of other pamphlets, etc.

The Librarian on being asked whether he had taken any steps in regard to the subject brought up at the last meeting of the Board of Directors, stated that he had had a number of cards printed which he would furnish on application to any member desiring to use the library.

He furthermore stated that the janitor had consented to take down the names of all gentlemen desirous of using the library.

Dr. Geyer then stated that the $19.50 due to Mr. Elliott for expenses incurred on Dr. J. Lipps' funeral had been collected and paid.

The Chairman of the Committee on Papers and Publications had no report.

The question of dropping members in arrears of dues was then brought up, and ended in the following motions by Mr. Casamajor.

1. That all members in arrears of dues to Dec. 31, 1879, be dropped from the rolls.

This, on being seconded, was carried unanimously.

2. That a committee, consisting of the Treasurer and the two Secretaries, be appointed to draw up a list of members whose dues have been properly paid. Carried.

Mr. Elliott then made some remarks about the publishing of the next number of the Society's Journal, and finally stated that at the next meeting of the Society, he would move an amendment to the Constitution relating to the Committee on Papers and Publications which he wishes to be increased to five.

Mr. Orazio Lugo was then elected as a regular member.

After which, Dr. Emil Hirshberg was nominated as a new member.

The first paper of the evening "On Crystallized Anhydrous Grape Sugar," by Dr. Arno Behr, was then read.

Some remarks by Dr. Waller then followed, after which the second paper "On the precipitation of tannic acid as tannate of copper," by Mr. Nelson H. Darton, was read.

After some remarks and questions by Dr. Grothe the third paper, "On the water supply of N. Y City," by Dr. E. Waller, was read.

This paper provoked a lively discussion between Drs. Endemann & Waller.

Dr. Endemann then read a paper by title "On Heptane," by F. P. Venable, Ph. D.

After which the meeting adjourned.

JAMES H. STEBBINS, JR.,
Recording Secretary.

IV ON CRYSTALLIZED ANHYDROUS GRAPE SUGAR.

DR. ARNO BEHR.

The general physical and chemical properties of crystallized anhydrous grape sugar are pretty well known, and I am only able in a few points to supplement this knowledge on this occasion. Anhydrous grape sugar in a state of purity has so far only been obtained from an alcoholic solution. Two years ago F. Soxhlet found that the best solvent for it is methylic alcohol, from which much larger and better developed crystals can be obtained than from the solution in ethylic alcohol. I have found that it can, even more easily, be prepared from a watery solution.

The principle that a crystal introduced into the supersaturated solution of the same substance induces crystallization, has long been applied to the practice of grape sugar manufacture. In order to hasten the hardening of the sugar a certain quantity of the already hardened sugar of a previous operation is stirred into the mass. But as the ordinary commercial grape sugar always contains the hydrate the crystallization so obtained is also that of the hydrate. I put the question to myself, what would happen if, instead of the hydrate, I introduced the anhydrous sugar into a concentrated solution of ordinary grape sugar. I tried the experiment and must confess that I had not much hope that anything else but crystallized hydrate would be the result, for I expected to see the anhydride transformed into the hydrate within the watery solution. I was agreeably surprised when, on the next morning, I found the glass filled with a neat crystallization of anhydrous grape sugar,