THE TECH, BOSTON, MASS., MARCH 16, 1912

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Saturday, March 16, at 2 P.M.
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In French

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THE CONDUCTIVITY
OF ELECTROLYTES

Prof. Goodwin Explains Factors
Which Determine Conductivity in Solutions.

Yesterday afternoon Prof. Goodwin gave the second lecture on Electrolytes. In performing two experiments that he did not have time to make at last Friday's lecture he proved that electrolytes follow Ohm's Law and exhibit heating effects in exactly the same manner and to the same degree that metallic conductors do.

He then described one of the great differences between the behavior of electrolytes and metallic conductors under the passage of the electric current. 'The former move bodily under these conditions, while the latter do not. The fact that this motion is with the positive current for the positive ions and against it for negative ions was shown in the lantern by the electroyte solutions, the latter exhibiting a biconvex bubble. This experiment also showed that the velocity of this movement is such as to make the density of the current. In the lantern this was shown with the kind, the copper being quite a bit slower than the bichromate ions.

Professor Miller gave a table of the velocities of the various ions. This table showed that the hydrogen ion is much faster than any other, the hydrazine coming next in the table with about half the speed. He showed by experiment that these velocities are one of the three factors which determine the electrical conductivity of a solution. The second factor is the number of ions per unit volume, or the percentage to which an electrolyte is ionized. The third factor, which follows from Faraday's Law, is the number of electrical charges carried by each ion.

Professor Goodwin announced that his next talk would be on the Electro-chemical Series.

MASS MEETING.

(Continued from Page 1, Col. 2.)

Dr. Maclaurin quoted Emerson in saying that every institution is the lengthened shadow of a man. The Institute we knew today, said the speaker, is the lengthened shadow of Rogers, its founder. The Institute that will be located across the Charles will be the lengthened shadow of man Smith, the giver of this large amount of money.

Mr. Kellogg then announced the completion of the plans for the All-Technology building to be held in the Union. This banquet is to be a true undergraduate affair, the non-students who will attend being men who will tell the students about the developments toward the vital change in the life of the Institute.

ON SUNDAY, March 17, at 8 A.M., the regular corporate communion, the Brotherhood of St. Andrew, will be held. All Episcopalians are cordially invited to attend.

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