The seventh annual meeting of the Institute was called to order by President R. M. Haseltine at 2 p.m., Thursday, January 18th, 1887, in Lynden Hall, Columbus, Ohio.

The Secretary called the roll and read the minutes of Steubenville meeting, which were, on motion, approved.

The President read the report of the Executive Committee, and its action recommending that Professor Orton be placed on the list of Honorary Members, was, on motion, approved.

The President read his annual address, after which Professor N. W. Lord presented a paper on, "The Chemical Composition of Gases in Blast Furnaces using Raw Coal," which was followed by a paper by R. M. Haseltine on "Laying Gas Mines," and this by Emerson McMillen with a paper on the "Iron Ores of Ohio," after which an adjournment was taken until 7 p.m.

At 7 p.m. W. H. Jennings presented a paper, "Comparative results of Weights and Estimates of Coal in the Hocking Valley."

The papers expected of Edward Orton Jr., and Frank Allen not being ready were of necessity passed and that of Mr. Parmelee's, "Some Remarks on Fire Clays and the applicability of the continuous regenerative Gas Furnace in burning this," was read by the author. Mr. Bancroft followed with a paper, "The effect or influence of Natural Gas upon the Coal Trade." The Institute adjourned to meet at the State Mine Inspector's office at 8:30 A.M., January 14th.

The Institute was called to order at 9:15 A.M., January 14th, at State Mine Inspector's office by the President.

A paper, "The effect of Mining out Coal No. 6 before taking out those seams lying above it," was read by the author, Thomas Middleton. Professor Orton had prepared and here presented a brief eulogy on the life and character of Professor Charles Whittlesey, of Cleveland, Ohio, an Honorary Member of the Institute and deceased since the last meeting.

H. B. Van Atta read a paper on Preservation of Survey Lines and Points in mines." Mr. Van Atta had on exhibition a drill of his own design, (and alluded to it in his paper) the construction and operation of which he explained to the members of the Institute after the reading of his paper.

The Institute took recess until 1:30 p.m. Reconvened at 2 p.m. and listened to a paper by Andrew Roy, "The Peculiarities of Coal Beds." At his request, W. J. Hester was excused from presenting his paper on "The Iron Industries of the South." and Professor Orton delivered his lecture on "The Trenton Limestone, the new Source of Gas and Oil in Ohio."

The programme being finished, some business matters of the Institute were taken up; the first being the election of officers for the ensuing year, which was disposed of by carrying the motion of Andrew
Roy, "That the old officers be re-elected." The time and place of holding the Summer meeting was taken up and discussed. Mr. McMillen on behalf of J. R. C. Brown and citizens of Ironton, extended an invitation to hold the Summer meeting at that place. Mr. Hester invited the Institute to Cambridge and guaranteed a cordial welcome. Professor Orton suggested Findlay and thought the Institute would find that city the "Gasopolis of Ohio," very interesting and profitable place to meet this coming Summer. This view was also held by some of the other members. On motion the sense of the meeting was taken, which resulted in favor of Ironton.

The proposition of W. E. Bundy, of the Wellston Argus, to publish the Journal for the Institute, was taken up, and after being pretty thoroughly discussed by nearly all members present, was, on motion, accepted.

On motion the President, Secretary and Mr. Roy were made the publication committee.

The following named members voluntarily agreed to make good, to the amount of five dollars each, any deficiency in amount that may become due W. E. Bundy, the ensuing year, on his contract to publish the Journal, by reason of lack of Institute funds in the treasury. Chamberlain, Jennings, Roy, Howels, Bancroft, Morris, R. M. Haseltine, E. D. Haseltine, Parmelee, Middleton, Van Atta, Bailie, Gaffney. Professor Orton, Norton, McMillen, Fox and Weitzell. Votes of thanks were tendered all those contributing to the programme, and to Mr. Bancroft for the use of his office. All papers were pretty thoroughly discussed by a large per cent. of the members present, and through the aid of Miss Julia Jenkins, a stenographer, of Columbus, the discussions were pretty well preserved and will be found printed in their proper places.

This was a very successful meeting of the Institute. The papers presented were many, on valuable and interesting subjects, and quite thoroughly prepared, and the very deep interest in each was apparent for the close attention given during presentation, and the very full and free discussion of each. At no meeting of the Institute was the interest in its welfare and success so apparent as at this one, and it was quite evident that its active members intend it shall have a long, useful and honorable career.

Very Truly Yours,

R. S. WEITZELL, Sec'y.