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Minutes of Summer Meeting at Logan, O. July 11th, 12th and 13th, 1888.

The Institute met in the opera house at 8 P. M., July 11th, and was called to order by W. H. Jennings, president; Thomas B. Bancroft, Secretary and Treasurer.

MEMBERS PRESENT.

W. H. Jennings, President; Thos. B. Bancroft, Secretary; R. M. Haseltine, Chief Inspector of Mines; D. J. Harry, District Mine Inspector; J. W. Haughee, District Mine Inspector; J. L. Morris, District Mine Inspector; P. H. Doyle, Buchtel, O.; F. J. Aid, Corning, O.; Jno. F. Roberts, Straitsville, O.; Thos. L. Watkins, Zaleski, O.; Ellis Lovejoy, Union Furnace, O.; Hon. Andrew Roy, Glen Roy, O.; H. S. Willard, Wellston, O.; Prof. N. W. Lord, Columbus, O.; Claude V. Martin, Zanesville, O.; H. B. Vanatta, Nelsonville, O.; Henry Price, Jackson, O.; W. B. Brooks, jr., Nelsonville, O.; Jno. H. Mullin, Floodwood, O.; F. A. Ray, Buchtel, O.

President Jennings delivered an address of welcome, in which he enumerated the richness and great variety of resources of the Hocking Valley. This was followed by an address from Prof. N. W. Lord, of the Ohio State University, on the benefit of the University to the young men engaged about the mines and workshops of the State, who can take advantage of the short course to be introduced into that institution during the coming year, which received the hearty approbation of the Institute.

Captain J. L. Morris read a paper on "Early Mining in Scotland," and after some discussion, the Institute adjourned until 9 o'clock Thursday morning.

On Thursday, July 12th, the Institute met at 9 o'clock A. M., and listened to a paper by Hon. Andrew Roy, on "Mining Legislation in Ohio." A discussion followed, after which a vote of thanks was tendered Mr. Roy for his paper. This was followed by a paper from Mr. Ellis Lovejoy on the "Fire-clays of Five Mile Creek," which was discussed by the Institute and a vote of thanks tendered Mr. Lovejoy. The afternoon session was opened by the reading of a paper by Hon. R. M. Haseltine, the subject being "Of What should Ohio's Mineral Exhibit Consist, and How It should be Made at the coming Centennial?" This excited a prolonged discussion, after which Mr. Roy offered the following resolution, which was adopted:

Resolved, That the President of the Institute of Mining Engineers and the Chief Inspector of mines be appointed a committee of the Institute to confer with the general director of the Ohio Centennial as to the manner of exhibiting the mineral products of the State at the coming Centennial Exhibition; and that said committee be empowered to call on any member of this Institute to assist in said exhibition, if the committee deemed such assistance necessary.

The Institute then listened to an address by W. J. Hester, of Cambridge, on the "Oil and Gas Deposit in Guernsey County." After which applications for membership were received from the following persons and under instructions from the Institute, the secretary cast the ballot for them and they were declared elected, viz:

James R. Birkbeck.....	Monday, Ohio.
Mine Manager.	
R. M. Slobart.....	Antiquity, Ohio.
Superintendent and Mine Boss.	
Wm. P. Ries.....	Newcomerstown, Ohio.
Superintendent and Mine Boss.	
Robert Thompson.....	Zaleski, Ohio.
Managing Director, Zaleski Co.	
Thos. L. Watkins.....	Zaleski, Ohio.
Superintendent Zaleski Co. Mines.	
W. B. Brooks, Jr.....	Nelsonville, Ohio.
Operator.	
Wm. Q. Adams.....	Portsmouth, Ohio.
Fire Brick Manufacturer.	
James D. Hurd.....	Cincinnati, Ohio.
Coal Operator.	
Thos. F. Smith.....	Mineral Point, Ohio.
Mine Superintendent.	
M. D. Jones.....	Jackson, Ohio.
Coal Operator.	
Benjamin Wheeler.....	Zanesville, Ohio.
Coal Operator.	
F. A. Ray.....	Buchtel, Ohio.
Mining Engineer.	
J. W. Haughee.....	Nelsonville, Ohio.
District Mine Inspector.	
D. J. Harry.....	Jackson, Ohio.
District Mine Inspector.	
John F. Roberts.....	Straitsville, Ohio.
Mine Superintendent.	

A resolution was offered by Hon. R. M. Haseltine, remitting all dues from our late Secretary, R. S. Weitzell, which was passed unanimously. A committee of three, consisting of Hons. R. M. Haseltine, Andrew Roy and Thomas B. Bancroft, was appointed

by the President to draft resolutions in regard to the death of our late member, John Stambaugh, and to have the same inserted in the next issue of the *Journal*.

The Secretary, in accordance with the resolution passed at the last meeting of the Institute, read a revised list of members who were not in arrears for dues, as also a list of delinquents, whose names were dropped from the roll of members. The meeting then adjourned until 8 o'clock P.M., when Prof. N. W. Lord gave a stereopticon exhibition, consisting of various views along the Hocking Valley, embracing the ore, fire-clay and limestone quarries, the several furnaces, portions of the Findlay gas field, taken while Prof. Edward Orton was measuring the flow of gas from one of their gushers. He also gave quite a number of views of the Harrison mining machine, the Lechner air drill, the Wallace automatic air pumps at work in the mines, together with quite a number of views of falls of slate, trappers at the doors, trains of coal in motion, etc., all of which were obtained by the flashing of magnesium light. The distinctness with which the peculiarities of the mine were exposed was wonderful, and elicited hearty applause from the large audience present.

Quite a number of the members' wives and other ladies made the occasion unusually pleasant by their presence, which feature should, by all means, be encouraged.

The excursion train, under the supervision of President W. H. Jennings, who is also the Engineer of the C., H. V. & T. Railroad, left Logan at 6:50 Friday morning, with the members of the Institute and about one hundred of the people of Logan, making in all one hundred and fifty on board, a large percentage being ladies, all bent on a gala day. After a run of thirteen miles, the first halt was made at Mine No. 11, operated by the C. & H. C. & I. Company, at Straitsville, where nearly all alighted and entered the mine under the escort of Mr. Raybould, the Superintendent. This mine was formerly operated by the Consolidated Coal Company, and set on fire during the great strike of 1884, to extinguish which has caused the expenditure of large amounts of money, and rendered worthless a vast amount of coal near the mouth. To reach that portion of the mine where mining operations are now in progress, required a walk of nearly three-quarters of a mile. Here the coal mined was eleven and one-half feet thick. The excursionists visited quite a number of rooms and witnessed the miners at work. Prof. Lord gave an illustration of the manner of obtaining photographs in the mine by flashing magnesium light. After a halt of an hour the party was taken down the Monday Creek Branch of the C., H. V. & T. R. to Sand Run Junction, there to the Ellsworth & Morris Coal Company's Sand Run Mines, to examine the Ramsey Box-car Loader work, as this is a new feature in mining in this State. It was an object of great interest to all. The ladies did not lack in zeal in obtain-

ing positions to witness its working, many getting on top of the cars.

Leaving here at 9:30, the train returned to Sand Run Junction, then to Brush Fork, where the mine of the Consolidated Coal and Mining Company is located. Here the party alighted, and, under the escort of Mr. G. W. Brashears, entered the mine, where they witnessed the workings of the Harrison Mining Machines and the Lechner Air Drill, after examining the mine, including the rope haulage.

On their return the party dined on the train as the guests of the Consolidated Coal and Mining Company and the Ellsworth & Morris Coal Company. The dinner was gotten up by Mr. O. S. White, of the Logan Depot House, and was one of the many enjoyable features of the occasion. The *menu* would have been a credit to any hotel. After dinner the train proceeded on its tour, the first stop being at the Ellsworth & Morris Coal Company's mines on Brush Fork, about one mile below, and superintended by Mr. William Job, who took the party in charge. Here the product of two mines is run over one tipple, the quantity exceeding anything ever witnessed by members of the Institute, seven bank cars per minute being easily accomplished; as high as twenty-two hundred tons have been loaded in a day. The coal is delivered at the head of the tipple by wire ropes (the tail rope system being employed) operated by one engine, the nut and pea coal being separated by a revolving screen and deposited in bins from which it was drawn into cars at will. Electric signal bells are used in operating the trains, which was something entirely new to all present.

After looking over the new and rare improvements around the chutes, the party entered the mine to see mining done by the Legg Mining Machine. The system of gathering coal from the rooms to the partings was of interest to many, and the manner of running trains by the wire ropes was an object of interest to all. The party then boarded the train feeling that they had seen the largest and best equipped mine in Ohio and were richly repaid for their visit. The party now proceeded to the Happy Hollow mine and examined their coke ovens and coal-washing machines. Here Professor Lord took a photograph of the party as they stood around in groups examining the plant. The stop here was short, all being anxious to see the works of the Nelsonville Sewer Pipe Company, at Nelsonville, and after examining their ware and the mode of preparing and moulding it, we proceeded to the works of the Haydenville Mining and Manufacturing Company, where we were received by the Superintendent, Mr. J. W. Jones, who escorted us through the immense plant of which one of the chief objects of interest was an elevator and conveyor combined, which transported the product from the moulds to the second and third stories, where it was taken off to be dried. Continuing in its course it received the dried product, then delivering it to the kilns

where it is burnt. The variety of their product is very great, their paving brick being among the most noted. The store was next visited, and its construction was brought to the attention of the Institute. It was evidently the design of the architect to use some of every article manufactured by them in its construction and to all appearances he was successful; as a whole, it is a very imposing building. When the party gathered at the depot preparatory to leaving for their homes, the Hon. Thos. B. Bancroft called them to order and introduced Hon. R. M. Haseltine, who, on half of the Institute, offered the following resolution:

Resolved, That the members of the Ohio Institute of Mining Engineers extend to the Hocking Valley Railroad Company for its kind courtesies, and to the Consolidated Coal and Mining Company and the Ellsworth & Morris Coal Company for their hospitality, and to the owners and superintendents of the various mines and manufactories visited, for their kind attention on this occasion, our heartfelt thanks. In consequence of these attentions and favors the members will return to their homes deeply impressed with the fact that the resources of the Hocking Valley, as well as the kindness of its people, has never been half told, and in the language of the Scriptures, we feel "it is good to be here."

The resolution was enthusiastically adopted, after which all boarded the train for their homes feeling deeply grateful for such an enjoyable trip, the success of which will make a deep impression on the minds of those who participated in it and all will look forward to the future meetings with pleasant anticipation.
