

MINUTES OF THE EARTH SCIENCE SECTION OF THE C. A. S. AND M. T., CLEVELAND, 1910, MEETING.

The tenth annual meeting of the earth science section of the Central Association of Science and Mathematics Teachers was held in Room 107, Technical High School, Cleveland, Ohio, November 25 and 26, 1910.

The meeting was called to order at 2 P. M., November 25, 1910, by the chairman, Mr. W. M. Gregory of the Normal Training School, Cleveland, Ohio.

The chairman appointed the following committees:

Nominations, Mr. W. P. Holt, Central High School, Toledo, Ohio; Mr. C. F. Knirk, Technical High School, Cleveland, Ohio; Mr. G. A. Barker, Normal School, Normal, Ill.

Resolutions, Mr. W. C. Durstine, Technical High School, Cleveland, Ohio; Mr. E. E. Rayman, Lincoln High School, Cleveland, Ohio; Miss Charlotte Bushnell, South High School, Cleveland, Ohio.

The following papers were presented: "A High School Museum for Geography," by George A. Barker, Normal School, Normal, Ill.

"Industrial Geography, Its Meaning, Scope, and Content," by Carl F. Knirk, Technical School, Cleveland, Ohio. Abstract on Page 114.

Discussion: In response to a question Mr. Knirk stated that the course ran throughout the first year. It was planned primarily for boys, but in planning a course for girls he would introduce more of the textiles and omit some of the matter relating to iron and steel and similar industries.

Miss Grace Ellis spoke of the influence of the soil upon the occupations and habits of people and illustrated her remarks by a brief account of the border region of the driftless area in Wisconsin.

In response to a question of the advisability of introducing industrial geography into the grades, Miss Meta Wolff gave her experience with such work in the Cleveland Industrial School. She found the use of exhibits and the study of local industries helpful.

Report of the Committee on Fundamentals by W. E. Durstine, chairman, Technical High School, Cleveland, O. It was moved and carried that the report be accepted as a report of progress and that the committee be continued and added to as necessary.

"Physical Geography vs. Biology for First Year in the High School," by Miss Stella S. Wilson, School of Commerce, Columbus, Ohio. A second paper continuing the same subject by W. P. Holt, Central High School, Toledo, Ohio.

Discussion of both papers: Mr. Eikenberry expressed the opinion that biology was not too difficult for first year pupils, though his preference was for a later year. He would not advocate the use of a compound microscope in first year classes nor the use of many technical terms. He called special attention to the fact that we have no available basis of measurement for the growth of the child in consequence of the study of physical geography or biology.

The meeting of the second session, November 26, was called to order at 10 A. M. by the chairman, W. M. Gregory.

The committee on nominations reported the following list of officers for the ensuing year:

Chairman, D. C. Ridgeley, Illinois State Normal School.

Vice-Chairman, G. R. Mansfield, Northwestern University, Evanston, Ill.

Secretary, Miss Grace F. Ellis, Grand Rapids, Michigan.

These persons were duly elected.

The committee on resolutions presented the following, which was adopted:

WHEREAS, Modern geography has come to rank with the most important studies in the high school as a valuable life preparation, touching as it does the relation of man to his physical surroundings; and

WHEREAS, Too little time and attention is given to this vital and very important study;

Be it Resolved, That we strongly urge that one year be considered the minimum amount of time that can be reasonably assigned to this subject in the high school.

Be it Resolved, That this section extend its appreciation of the admirable papers presented by Mr. G. A. Barker, Miss Stella Wilson, Mr. Frank Carney, Mr. C. F. Knirk, Mr. H. P. Holt, Miss Grace F. Ellis, Mr. James H. Smith, and Prof. G. D. Hubbard.

Be it Resolved, That the thanks of the Association be extended to the American Geographical Society for the loan of the most excellent collection of maps and books. We have found them suggestive of what maps ought to be and geography in our schools will be placed on a more efficient basis when such maps are available in our school rooms.

Resolved, That it is the sense of this section that the assignment of teachers to teach geography and physiography, who are not qualified by training in these sciences, is detrimental to the interests of the sciences, of the pupils, and of the school.

It was moved by Mr. W. P. Holt that a committee be appointed to investigate and to report at the next meeting upon the desirability of a general science course in connection with the first year course in earth science in the high school. The motion was carried.

The following papers were presented:

"The Value of the Physical versus the Human Element in Secondary School Geography," by Prof. Frank Carney, Dennison University, Granville, Ohio.

The discussion was opened in brief papers by Miss Grace F. Ellis and Prof. G. D. Hubbard and then became general.

Mr. Barker of Normal, Ill., pointed out the difficulty of tracing geographic influences upon human life in cases where other elements are introduced, such as railroad rates and immigration from different regions.

Mr. James H. Smith (of Chicago) raised the question as to the source of materials and stated that he was trying to establish a course in which the work would be partly in three or four outside books, partly in text-books, and partly in laboratory work.

The report of the special committee to investigate the value of the different methods of teaching physiography, by J. H. Smith, chairman, Austin High School, Chicago, Ill. It was moved and carried that the report be received and the committee continued.

On account of the lateness of the hour Prof. Hubbard suggested that his paper on the special collection of European maps and atlases, loaned for the meeting by the American Geographical Society, be omitted. Upon request he kindly consented to speak informally on the subject after the close of the session.

G. R. MANSFIELD, Secretary.

W. M. GREGORY, Chairman.

REPORT OF THE MEETING OF THE CHEMISTRY SECTION

C. A. S. AND M. T., CLEVELAND, OHIO, NOVEMBER 25, 1910.

Meeting called to order by Dr. Albert L. Smith, chairman. The secretary being absent, the chair appointed Mr. L. B. Altaffer secretary pro tem. A