

## MAY 3.

The President, SAMUEL G. DIXON, M.D., LL.D., in the Chair.

Seventeen persons present.

The death of Lancaster Thomas, a member, April 2, 1910, was announced.

HENRY SKINNER, M.D., made a communication on insects injurious to shade and fruit trees. (No abstract.)

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## MAY 17.

MR. CHARLES MORRIS in the Chair.

Forty-three persons present.

The death of Edward Van Beneden, a correspondent, April 28, 1910, was announced.

The Publication Committee reported the reception of papers under the following titles:

"Notes on Batoid Fishes," by Henry W. Fowler (May 5, 1910).

"Descriptions of four New Cyprinoids (Rhodeinæ)," by Henry W. Fowler (May 5, 1910).

"A Note regarding the Chinese Alligator," by Thomas Barbour (May 17, 1910).

The following communications were made under the auspices of the Mineralogical and Geological Section:

CHESTER A. REED, on some geological features of the Arbuckle Mountains of Oklahoma. (No abstract.)

*The Copper Deposits of Franklin and Adams Counties, Pennsylvania.*  
—EDGAR T. WHERRY, Ph.D., remarked that the region is occupied by two Pre-Cambrian effusive igneous rocks, a rhyolite and a basalt, both considerably altered. The latter was probably the first to form, the acid rock being in part in dikes cutting through it, and a contact exposed during recent mining operations showing a rhyolite lava overlying basalt. The deposits consist chiefly of native copper in



quartz veins in epidotized layers in the basalt lava. It is believed that the metal was originally distributed throughout this rock and has been concentrated, like the associated quartz, in obedience to the principle that large crystals grow at the expense of small ones, that the reduction to metallic copper was brought about by the ferrous iron of the rock constituents, that the copper was transported as a dilute solution of free metal by the circulating waters, and that the association with epidote is of physical rather than of chemical significance, in that the epidotized layers were the only ones of sufficiently resistant character to permit of the development of open cracks during the regional metamorphism. The workableness of the deposits depends upon the continuity of these epidote-bearing layers and their included quartz veins in depth, but since no explanation can be given for the epidotization of certain layers of the rock it seems impossible to predict this from present indications, and extended drilling is thought to be the only way to settle the question as to the future of the district.

SILAS L. SCHUMO, on the pot holes of the Falls of Schuylkill, illustrated by photographs. (No abstract.)

F. LYNWOOD GARRISON, on the copper deposit and mining operation near Bound Brook, N. J. (No abstract.)

HENRY LEFFMAN, M.D., exhibited the effect of polarized light on preparations of rock-sections by the Lumière color-process.

Edgar Madison Ledyard was elected a member.

The following were ordered to be printed:



Wherry, Edgar T. 1910. "The Copper Deposits of Franklin and Adams Counties, Pennsylvania." *Proceedings of the Academy of Natural Sciences of Philadelphia* 62, 454–455.

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