

of the three states of matter. Because a half century ahead of his times his long forgotten communication to American scientists was little regarded by the men to whom it was presented; but it appears to have really anticipated by a full generation much that we are now hailing with so much delight in the field of crystallography and in the domains of the new solid chemistry.

But be that as it may, crystallographers have a broad and novel field of endeavor before them in the development of crystal tectonics, and in the adjustment of all the long puzzling peculiarities and properties of minerals to the new style of crystal architecture. In the term *crystule* may be found the basic concept of the new prospect.

PROCEEDINGS OF SOCIETIES

PHILADELPHIA MINERALOGICAL SOCIETY

Academy of Natural Sciences, October 9, 1924

A stated meeting of the Philadelphia Mineralogical Society was held on the above date with the president, Mr. Vaux, in the chair. Twenty-seven members, and eleven visitors were present.

The name of Mr. Albert Hallowell was proposed for active membership. The following officers were elected for 1924-1925: President: Mr. George Vaux, Jr.; Vice-president: Mr. Harry W. Trudell; Treasurer: Mr. Henry Millson; Secretary: Dr. Horace Blank.

Mr. Harold W. Arndt addressed the society on *A Ten-Day Trip to New England Localities*. Mrs. Arndt visited a number of New England localities in company with Mr. R. M. Lane of Great Barrington, Mass. The principal finds exhibited were from Canaan, Mass., tremolite in grayish crystals and white radiating masses in limestone; Lee, Mass., tremolite; Branchville, Conn., spodumene, beryl, and ilmenite; Chester, Mass., emery, diasporite, margarite, tourmaline and corundophilite; Stockbridge, Mass., calcite; Blanford, Mass., beryl; Richmond, Mass., goethite and gibbsite; Litchfield, Mass., cyanite; Granby, Mass., quartz crystals; Great Barrington, Mass., tourmaline; Roxbury, Mass., garnet.

Mr. Biernbaum described an excursion to the Ecton and Perkiomen mines on September 28th, accompanied by Messrs. Wills, Trudell, and Gordon. Calamine, aurichalcite, linarite, pyromorphite, chlorite, and diopside? (very minute emerald-green rhombohedra) were found. Mr. Hoadley exhibited oligoclase from New York City and apatite from Anthony's Nose, N. Y. Mr. Bengé reported on a trip to the Wheatley mines with Mr. Thatcher, where cerussite was found.

Mr. Vaux exhibited a number of striking specimens of apophyllite, natrolite, and calcite from the French Creek mines. The apophyllite was practically a solid mass with one surface covered with large crystals, measuring 28×30 cm. The natrolite occurred as snow white, compact radiations, 8 cm. in diameter, associated with small calcite crystals, forming a vein in crystalline limestone (hanging wall of the orebody). The calcite specimens exhibited resembled natrolite, consisting of white

radiations, which are perhaps pseudomorphs after a zeolite. Dr. Wills exhibited a beautiful series of box mounts of the Ecton mine minerals with the aid of a binocular microscope.

SAMUEL G. GORDON, *Secretary*.

NEWARK MINERALOGICAL SOCIETY

The 67th regular meeting of the Newark Mineralogical Society was held at the home of Mr. Broadwell, as the regular meeting place was not open. President Walther presided, eleven members being present. The minutes of last meeting were read and approved. The applications of Messrs. Karlson, Schairer and Metcalfe were presented for action and all elected to membership. The secretary reported on the Branchville, Conn. outing held on Decoration Day. All who attended this outing were well pleased with the trip. Mr. Broadwell reported having found the following: bröggerite xls; uraconite; eosporite; torbernite (?); albite; dickinsonite; lithiophilite; hureaulite; fairfieldite (2 forms); natrophilite (?); columbite; quartz xls; apatite; margarosanite; sphalerite; damourite; cymatolite; eucryptite; montmorillonite; spodumene, white and pink; prochlorite; microlite xls; triploidite xls.

The outing for Columbus Day was discussed and finally left to the decision of Capt. Miller. Mr. Hoadley reported visiting 22 localities the past summer. He spoke of finding garnet at Leipersville, Pa.; epidemine and stilbite at Robinson, Pa.; schallerite at Franklin, N. J.; also chlorophoenicite from the same locality; cobaltiferous pyrite from Cornwall, Pa.; beryl from New Milford, Conn.; apatite in stilbite from Anthony's Nose, N. Y. Mr. Grenzic reported azurite and franklinite from Ogdensburg, N. J.; botryoidal datolite, pink, from Franklin, N. J. Mr. Schmid found benjaminite, realgar with stibnite in cavities at Manhattan, Nevada. Mr. Walther spoke on Branchville, Conn., and reported a new find of native iron from Modoc Co., California.

A vote of thanks was extended to the secretary for the use of his home for the day's meeting. The meeting then adjourned.

WM. H. BROADWELL, *Secretary*.

NOTES AND NEWS

SMITHSONITE; KELLEY MINE, MAGDALENA MTS., NEW MEXICO. WILLIAM P. HEADDEN, *Colorado Agricultural College*. Several years ago Mr. Philip Argall of Denver presented the author with a sample of smithsonite from New Mexico. It forms a layer about $\frac{3}{4}$ inch thick over a ferruginous, siliceous base. Its color is green, quite deep in the upper portion of the layer. The sample cuts and polishes rather handsomely. The locality is not new. The sp. gr. is 4.4103 at 15 degrees. An analysis shows: CO₂ 35.12, ZnO 60.97, CuO 3.48, CdO 0.16, CaO 0.44 with traces of PbO, MnO and FeO.

The Deseret Museum of Salt Lake City, a general geological and biological collection containing one of the largest and most complete mineralogical collections in the West, was presented to the Brigham Young University, Provo, Utah.