cipitation from the boraciferous waters of lagoons, the precipitate being first amorphous but crystallizing upon standing. The general occurrence and the metacolloidal character of the California mineral would seem to bear out such a hypothesis. The mineral is of very local occurrence, however, and probably formed under conditions somewhat different from those that determined the formation of the large beds of ulexite and colemanite of this region.

PROCEEDINGS OF SOCIETIES

PHILADELPHIA MINERALOGICAL SOCIETY

Academy of Natural Sciences, October 11, 1923

A stated meeting of the Philadelphia Mineralogical Society was held on the above date, the President, Mr. Vaux, being in the chair. Fifteen members were present. The minutes of the previous meeting were read, corrected and then approved. Four names were proposed for membership. The matter of nomination of officers for the coming year having been overlooked at the preceding meeting, it was expressed as the sense of the society that the present officers be re-elected. On motion of Mr. Hoadley, seconded by Mr. Warford, and unanimously passed by the members, the Secretary cast a ballot re-electing the present officers for another term.

Mr. Biernbaum suggested that the order of business be amended so as to group together the routine business and provide for the uninterrupted consideration of subjects of mineralogical interest. Mr. Vaux heartily endorsed the suggestion and proposed a motion to make this change. The motion, duly seconded, was unanimously carried. Mr. Hoadley proposed that the Society consider the advisability of placing in the Mineral Hall of the Academy a loan collection to be supplied by the members of the Society. After some discussion, a motion was passed to create a committee to look into the matter and report to the Society the conclusions reached. The President appointed Messrs. Blank, Trudell and Biernbaum on this committee.

No further business being at hand, Mr. Boyle spoke on the subject "*The Micas.*" The ordinary physical characteristics of the principal members of this group were briefly referred to, their mode of occurrence, probable origin and associations were outlined and their general relationships stated. The chemical relationships were somewhat more fully explained with a view of presenting a synoptic study of the group, this being illustrated by blackboard presentation of the similarities and variations of chemical composition. The talk was also illustrated by specimens so displayed as to indicate the relationships shown by the chemical composition. Some discussion followed which evidenced the interest of the members in the subject.

The following trips were reported upon: by Mr. Hoadley, to Easton, Pa., Ogdensburg, N. J. and McAfee's near Franklin, N. J., which produced the usual minerals. Also a trip to Mantua and Mullica Hill, N. J., where well crystallized vivianite was found. On this latter trip, Dr. L. C. Wills and Mr. Boyle were present,

Dr. Wills serving as guide. By Mr. Biernbaum, to French Creek, participated in by eight other members on Sept. 29th and 30th. Good specimens of pyrite and magnetite were found, some being exhibited. On the return journey, a stop was made at the Wheatley Mine at Phoenixville, where some very promising microscopic material was found by Messrs. Boyle and Biernbaum. Mr. Vaux stated he had recently had the pleasure of seeing in the Parliament Buildings at Toronto, the exhibit of the Dept. of Mines of Ontario. Especially noteworthy were certain specimens of gold quartz and silver in calcite. The gold quartz occurs in veins exposed at the surface in the Porcupine District. The gold is distributed in lumps throughout the mass. The silver is from Cobalt, one specimen weighs approximately one and one-half tons and contains thousands of ounces of silver. The meeting adjourned at ten P. M. J. C. BOYLE, *Secretary Pro Tem.*

THE MINERALOGICAL SOCIETY OF WASHINGTON, D. C.

The Mineralogical Society of Washington held its third meeting as a field trip to the Springfield and Mineral Hill Mines in Carroll County, Maryland, on October 30th. Those taking part were Messrs. Burbank, Dunlop, Capps, Henderson, Hess, Katz, Loughlin, Reeves, C. P. Ross, C. S. Ross, Samson, Schrader, Spencer, and Steiger of the Geological Survey, Merwin, Washington, and Wyckoff of the Geophysical Laboratory, Foshag and Shannon of the National Museum, Wherry of the Bureau of Chemistry, Mr. Augustus Locke and Mr. Stickney.

The Springfield and Mineral Hill Mines are old iron mines that were worked many years ago. They are situated in a belt of rocks made up chiefly of mica schists with talc, actinolite and chlorite schists in lesser amounts. At the Springfield mine hematite schist is abundant, some of it approaching itabirite. At the Mineral Hill Mine the chief ore was magnetite. Sufficient chalcopyrite and bornite were encountered to work the mine for its copper. The chalcopyrite its intimately associated with a magnetite-hornblende rock, while the bornite occurs in lenses containing quartz, feldspar and epidote.

The dumps of the mine yielded abundant actinolite, talc, massive magnetite, scaly hematite and chlorite. Cobaltiferous gahnite was found in quartz lenses near the contact with schist and linneite in magnetite with chalcopyrite. Brochantite is rare as a secondary coating. Carrollite has also been reported from these mines. Some sulphides, possibly carrollite, were collected and will be investigated. The locality is interesting for its rocks and ores, but few mineral specimens of unusual merit can be found. W. F. FOSHAG, *Secretary.*

NEW YORK MINERALOGICAL CLUB

Regular Monthly Meeting of October 10, 1923

A regular meeting of the New York Mineralogical Club was held in the East Assembly Room of the American Museum of Natural History on Wednesday evening, October 10, at 8:15 P.M. In the temporary absence of the President, the Vice-President, Mr. George E. Ashby, presided at the opening of the meeting. There were 17 members present.

The minutes of the last meeting were read and approved. The Recording Secretary introduced for discussion the matter of a temporary loan collection repre-

senting the best specimens loaned by members of the Club to be exhibited in the Morgan Memorial Hall of the American Museum. After discussion it was moved that the President appoint a committee to arrange the details of this matter. Motion carried.

The following names were submitted to the Membership Committe: Mr. George D. Hurst, 38 West 61 Street, New York City; Mr. Fred C. Metcalfe, Box 51, Asbury Park, N. J.; Mr. Morris Blumenthal, 558 Quincy Street, Brooklyn. Proceeding to the main topic of the evening, *A Symposium on the Minerals Collected during the Summer*, Miss Catherine Schroeder exhibited several interesting gem specimens from South America including amethyst, aquamarine, tourmaline and topaz from Brazil, also some interesting and attractive water color paintings of localities in Brazil. Mr. Walther showed a number of specimens collected on the Club's Excursion to Bedford, May 30, also zeolites and other mineral specimens from the recent Great Notch excavation, and some fine prehnite on calcite from Paterson, N. J.

Mr. Hoadley described briefly a series of recent collecting trips in which 59 localities were visited and exhibited a number of specimens collected on these trips. The localities visited included Lenni, Duttons Mills, Liepersville, Springfield, French Creek, Holland (Feeney quarry), Edgehill, Frankford and Easton, Pennsylvania; Great Notch, Ogdensburg, Franklin, Ringwood, Mantua and Mullica Hill, New Jersey; Branchville, Danbury, the Redding localities, Roxbury, New Britain, Meriden, Portland, the Haddam localities, Farmington, Granby and Cobalt in Connecticut; and several localities in the vicinity of Keene, New Hampshire; also the Sterling and Bradley mines in Orange County, New York.

Mr. Manchester exhibited a very complete series of minerals from the new tunnel excavation at Little Falls, N. J. Mr. Schairer, a guest from Yale University, showed a specimen of topaz altered to margarite from Trumbull, Conn. Mr. Whitlock exhibited small fragments of the new mineral argento-jarosite from the Tintic District, Utah; a series showing the radio-active minerals from Katanga, Belgian Congo, as well as some of the copper minerals from the same locality including parsonsite; vanadinite and wulfenite from a new locality in Morocco; and some interesting twins of cerussite and pseudomorphs of cerussite after anglesite from a new locality in Tunisia.

The matter of the Field Excursion for Election Day was then introduced by the Chair. After some discussion as to the opinions of the members present, on a motion by Mr. Hoadley the localities at Ossining, N. Y. were selected and Messrs. Hoadley and Scott were selected as guides.

At this point the President, Dr. George F. Kunz, assumed the chair and appointed as a committee to arrange the matter of the loan collection, Messrs. Ashby, Hoadley, R. M. Allen and Whitlock. Mr. Collins showed some interesting photographs of the Bradley Mine, and Mr. Wintringham described the quarries in the vicinity of Caldwell, N. J. The meeting adjourned at 9:20 P.M.

HERBERT P. WHITLOCK, *Recording Secretary*