LIST OF TRICLINIC MINERALS INCLUDED IN GOLDSCHMIDT'S WINKELTABELLEN. EDGAR T. WHERRY. *Washington, D. C.*—The triclinic minerals are arranged as were those of the two preceding systems in the order of increasing values of axis *a*. The approximate values of the three axial angles are given here.

TRICLINIC MINERALS

	a	*c*	α	β	γ	Page
Fairfieldite	0.28	0.20	102	95	77	138
Chalcanthite (Kupfervitriol)	0.53	0.52	113	107	93	210
Lansfordite	0.55	0.57	95	100	92	212
Sassolite	0.58	0.53	104	93	90	311
Albite (Schuster's data)	0.62	0.56	94	117	89	139
Anorthite	0.63	0.55	93	116	91	141
Albite (Brezina's data)	0.64	0.56	94	117	88	140
Hannayite	0.70	0.97	123	127	54	170
Veszelyite	0.71	0.91	90	104	90	359
Amblygonite	0.73	0.76	109	98	106	37
Amarantite	0.77	0.57	85	90	97	36
Axinite	0.78	0.98	92	82	103	58
Chalcosiderite	0.79	0.61	93	94	108	93
Cyanite, Kyanite	0.90	0.70	90	100	106	106
Inesite	0.98	1.32	92	133	94	189
Hiortdahlite	1.0–	0.35	89	91	90	178
Babingtonite	1.12	1.83	94	112	86	286
Rhodonite	1.16	1.83	95	111	86	287
Roselite	1.31	0.91	91	91	89	296
Roemerite	2.64	0.97	100	95	64	295
Pseudomalachite (Lunnite)	2.83	1.53	89	91	91	224

This concludes the series of articles on the Goldschmidt two-circle method. They are all to be reprinted, in a single pamphlet, for the use of teachers and students of crystallography.

PROCEEDINGS OF SOCIETIES

PHILADEPLHIA MINERALOGICAL SOCIETY

Wagner Free Institute of Science, October 14, 1920

A stated meeting of the Philadelphia Mineralogical Society was held on the above date with the president, Dr. Burgin, in the chair. Fourteen members and four visitors were present.

The following officers were elected for 1920–1921; President: Dr. Alfred C. Hawkins; vice-president: Mr. Harry W. Trudell; Treasurer: Mr. Harry A. Warford; Secretary: Mr. Samuel G. Gordon.

Mr. Trudell reported a trip to Lenni and Dismal Run, Delaware County, attended by Messrs. Ford, Frankenfield, Knabe, Jones, Gordon, and himself. Mr. Hoadley gave an account of collecting experiences in Connecticut during the past summer, specimens being exhibited. Mr. Gordon described an Ordovician basalt flow in Lebanon County; no zeolites were found; and reported that Mr. Oldach had found arsenopyrite and erythrite at Robeson, Berks County. Dr. Hawkins described a trip taken by Mr. Gordon and himself along the Susquehanna River in Maryland.

Dr. Hawkins then took the chair, briefly addressing the Society on its past work.

Mr. Groth presented the name of Mr. Ralph W. Emerson for active membership.

SAMUEL G. GORDON, *Secretary.*

NEW YORK MINERALOGICAL CLUB

The Regular Monthly Meeting of the New York Mineralogical Club was held in the Assembly Room of the American Museum of Natural History, on the evening of October 20, at 8.15 P.M.

The President, Dr. George F. Kunz, presided and there was an attendance of 26 members and guests. The minutes of the last meeting were read and approved. The following names were submitted for membership to the Committee on Nominations: Mr. Everett D. Carlson, and Miss Mary F. C. Stockman.

The Recording Secretary exhibited some fine group photographs taken by Mr. Broadwell at the Burke Avenue locality during the visit by the Club on Decoration Day last. He appealed to the members for photographs of former Club field days for the Club Collection of such records. He also announced that the Club file of the AMERICAN MINERALOGIST was now complete with the exception of 3 numbers.

Exhibition and discussion of minerals collected during the summer: Mr. Whitlock exhibited a crystal of transparent colorless apatite from Burke Avenue, of unusual habit, resembling those from Tyrol; some small sphalerite crystals, collected by Mr. Papke, from Snake Hill, N. J., showing unique twinning; and sharp well developed scheelite crystals from Trumbull, Conn.

Mr. Grenzig showed several minerals collected from the vicinity of Franklin Furnace, N. J., including an especially large and perfect hornblende crystal from Hardyston, and an unusual willemite from Franklin. Miss Katherine Schroder showed a number of minerals collected from Worthington and Cummington, Mass. These included tourmaline and garnet in mica schist and rhodonite from Cummington, also garnets in schist and hornblende from Worthington.

Mr. H. Papke showed a fine series of the zeolites together with datolite and calcite from recent exposures at Snake Hill, N. J.; also pyrite in crystallized nodules on lignite from Kreisherville, Staten Island.

Mr. Hoadley reported an unusually active collecting season including visits to 21 localities: *Birdsboro, Joanna, O'Neills Quarry,* and *St. Peters, Pa.*; finds here included epidesmine, the rare new zeolite, (see Sept. no.), from the first locality. *Long Hill, Haddam Neck, Portland,* and *East Hampton, Conn.;* many interesting pegmatite minerals were obtained. *Franklin Furnace, Sterling Hill,* and *McAfee, N. J.; Queensboro, Orange Co., N. Y., Westmoreland, N. H.,* and *Saratoga Springs, N. Y.; Allaire,* and *Paterson, N. J.; West Chester, Pa.,* finding colerainite, recently discovered there, and *Oreland, Pa.; Burke Ave., Bronx,* finding apatite, wernerite, garnet, pink calcite, epidote, oligoclase, microcline, biotite and titanite; and finally, *Collinsville, Conn.,* and *S. Strafford, Vt.*

Dr. Kunz reported a visit to the tungsten mines at Boulder, Colorado, and showed a series of the ore minerals including ferberite. He also exhibited beautiful specimens of carnotite and autunite from Mesa Co., New Mexico,

and some fibrous chalcedony from Cody, Wyoming. He presented to the American Museum of Natural History the ferberite and carnotite, together with a series of lava and other materials used in the school of carving at Torre del Greco, Italy.

On a motion by Mr. Stanton the Club was authorized to purchase from Mr. Grenzig the unique specimen of hornblende from Hardyston, N. J., exhibited by him, and to present it to the collection of the American Museum of Natural History. This gift, together with those of Dr. Kunz, was acknowledged by the Recording Secretary on behalf of the Museum, with the thanks of the Department of Mineralogy for the spirit of generosity and public service which prompted them.

On behalf of the Committee on Excursions, Capt. Miller reported the possibility of arranging for a blast at the Mercer Quarry, West Paterson, on Election Day, and suggested that the Club consider this locality as an objective for this field day. This was accepted, with Kreisherville, Staten Island, as an alternative. HERBERT P. WHITLOCK, *Recording Secretary.*

NOTES AND NEWS

We wish to make this department one of the features of this magazine, and hope our readers will send us all items of interest which may come to their attention. News about mineral collections, finds of rare minerals or unusually fine specimens of well-known ones, and other things of interest to collectors will be especially welcome. [ED.]

At Columbia University the department of mineralogy has been combined with that of geology, and Dr. Lea McI. Luquer has been promoted to be associate professor of mineralogy.

Dr. George I. Adams, for some years engaged in teaching mineralogy and allied subjects in China, has returned to this country and has been appointed professor of geology and mineralogy at the University of Alabama.

The new collection of New England minerals in the Boston Society of Natural History was opened to the public on November 1st. From the account of this collection, published in the *Bulletin* of the Society (No. 23, pages 3–7, October, 1920), it is evident that it represents a remarkably fine and complete assemblage of the minerals of that region.

In response to our note in the July number that Professor Tschermak, the eminent Austrian mineralogist, was in need of food, the sum of $10 was made up by contributions from our subscribers, and has been forwarded to him thru the Geological Society of Washington. Professor Edward S. Dana and Dr. George F. Kunz have called our attention to the fact that another scientist in Vienna is in similar straits,—Professor Victor von Lang, the mineralogist and physicist. Can we not help him also?

Professor Austin F. Rogers, of Stanford University, is making a study of the mineralogy of fossil bone, and will appreciate receiving small specimens for investigation, if any of our readers can furnish them.

Mr. Edwin C. Mott, of Yonkers, New York, whose activities in furnishing that city with an exhibition collection of minerals have been already noted in this column (See number for April, 1920), has kindly sent us copies of newspapers describing further developments in this direction. Mrs. Elizabeth