Robert L. Darneal, A.B., San Jose (Calif.) State College, has been appointed Teaching Fellow in Mineralogy at Stanford University.

Professor Benjamin Leroy Miller of the Geology Department of Lehigh University died from a heart attack March 23, 1944, at the age of 69 years.

PROCEEDINGS OF SOCIETIES

PHILADELPHIA MINERALOGICAL SOCIETY

The Academy of Natural Sciences of Philadelphia, December 2, 1943

A stated meeting of the Society was held with Dr. W. Hersey Thomas presiding. Sixty-seven persons were present.

Dr. William Parish addressed the Society on "The Role of Crystallography in the Manufacture of Quartz Oscillator Plates." The technique of proper orientation of quartz crystals by optical means and x-rays was described, also the control of the orientation during the manufacture as well as the method of sawing, lapping and finishing the plates to their nominal frequencies. By the newer procedures, the right hand and left hand character and polarity of the quartz are not determined; indeed, "electrical" twinning is so prevalent that such determinations are discouraged. The crystallographic properties of the quartz are used for automatic correct orientation, which at the same time insures maximum utilization of the raw material. The lecture was illustrated with specimens, lantern slides and a sound film prepared by the Reeves Sound Laboratories of N.Y. Quartz mining in Brazil was alluded to, and the methods of inspection for optical and electrical twinning were outlined.

Meeting of Jan. 6, 1944

Dr. W. Hersey Thomas presided, with 42 persons present.

Professor J. D. H. Donnay addressed the society on "The Symmetry of Crystals." He defined symmetry by means of the concepts of singular, polar or homopolar directions and discussed symmetry operations and symmetry elements, using the Hermann-Maugin notation for symmetry symbols. After recalling the fundamental properties of the stereographic projection, he showed how all the faces of any form can be obtained by the symmetry operations available in the symmetry symbol of the crystal class.

Mr. Fred Oldach reported that the Franklin Graphite Co. had been working the Chester County graphite diggings near Anselma, Pa., and that a production of 350 tons of ore per day had been planned. This ore was expected to average 3 per cent graphite.

Meeting of Feb. 3, 1944

Dr. W. Hersey Thomas presided. Fifty-three members and visitors were present.

Dr. Clifford Frondel of Harvard University addressed the Society on "The Seventh Edition of Dana's System." This edition of Dana is to be in three volumes. The first volume which is now in the printer's hands is expected to appear in June.

This volume contains the elements, sulphides, sulpho-salts, oxides, hydrates, and such minerals as the tantalates, columbates and uranates. All data are thoroughly checked and must be of the highest character before they are acceptable. Such properties as variation in chemical composition, habits and twinnings of crystals, physical and optical properties are included, together with the types and occurrences of minerals, all of which are adequately described in the new edition. An effort was also made to uncover the origin of the names of minerals, an item which entailed much research work.

J. S. Frankenfield, Secretary.