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NOTES AND NEWS

BASTNAESITE AT CORONA, NEW MEXICO

Information received from R. S. Dean, Assistant Director of the Bureau of Mines, indicates a tentative identification of the mineral bastnaesite, a fluocarbonate of the cerium metals, in the microscopic examination of a sample taken from the Red Cloud fluorite deposit at Corona, New Mexico. The sample was sent to the Rolla, Missouri, laboratory of the Bureau of Mines for ore-dressing tests and the identification was made by Waldemar M. Dressel, Jr., in the course of a routine microscopic examination of the material.

The bastnaesite occurs in small, short prismatic hexagonal crystals with a basal parting. They are yellow to brownish-yellow in color with a waxy to resinous luster. The hardness is 4 and specific gravity 5.018. Optically the material is uniaxial positive with omega slightly below 1.72 and epsilon very close to 1.82.

Qualitative chemical tests showed the presence of the cerium metals. Spectrographic analysis showed strong lines for cerium, praseodymium and lanthanum, with the possibility of neodymium as well.

By microscopic count the composite of the gravity concentrates contained approximately 35% of bastnaesite. On this basis the content of the head sample would be about 2.4%. The tentative identification of this rare mineral will be checked by a quantitative chemical analysis.

The following have been elected officers of the American Society for X-ray and Electron Diffraction: W. H. Zachariasen, department of Physics, University of Chicago, Vice-President for 1944 and President-elect for 1945, and J. D. H. Donnay, Laval University, Quebec, and Hercules Powder Company, Wilmington, Delaware, Secretary-Treasurer for 1944. Dr. L. H. Germer of the Bell Telephone Laboratories at Murray Hill, New Jersey, is president for 1944. The next meeting of the society will be a joint Research Conference with Section C of the American Association for the Advancement of Science next August at Gibson Island, Maryland.

By vote of the Executive Committee of the A.A.A.S., the Association will hold its annual meeting for 1944 in Cleveland, Ohio, during the week of September 11-16.

The Executive Committee passed the following resolution relative to the programs of the meetings:

"It was voted to bring to the attention of the Association and to all of the affiliated societies that in all programs of the September meeting emphasis be placed on the indispensability of science for the future of civilization, both in war and in peace."

The Association extends to all its affiliated and associated societies a cordial invitation to participate in the Cleveland meeting.

Dr. Edward Bennett Mathews, professor emeritus of mineralogy and petrography at Johns Hopkins University, died Feb. 4 at the age of 74 years. Since 1917 he had served as treasurer of the Geological Society of America.