

and fluorapophyllite, but hydroxyapophyllite is the more common on the specimens examined, and, for consistency, it is best that all Guanajuato specimens be labeled hydroxyapophyllite. This locality has produced many specimens with crystals up to 3 x 1 x 1 cm. Some are tinged with a pink or violet cast, but most are white. The pearly luster on {001} is well developed, and the crystals exhibit the characteristic morphology of common apophyllite with the prism {100} striated parallel to *c*, and the simple dipyrmaid {111} well developed. These are the most beautiful hydroxyapophyllite specimens known. Although the exact locality is not known with certainty, the material is still available in some dealers' stocks and frequently re-appears when old collections are broken up and redistributed.

A fourth locality for hydroxyapophyllite is Khandivali, near Bombay, India. Specimens from this locality, together with some from the Parvati Hills, near Bombay, proved to be the (OH) member. Inasmuch as this material is still available, collectors and curators seeking specimens of this species should be able to obtain them with little difficulty from leading mineral dealers and at mineral shows.

#### FLUORAPOPHYLLITE

Fluorapophyllite is herein defined as material with fluorine greater than hydroxyl. Analyses of many specimens in the search for the (OH) end-member resulted in the following general observations regarding the correct nomenclature for specimens from specific and general localities.

**New Jersey.** The preponderance of the specimens from the Paterson, New Jersey area are fluorapophyllite. Specimens from the Bergen Hill area, and Prospect Park, in New Jersey, are, for the most part, fluorapophyllite. Several opaque, white, chalky

crystals from the latter two localities are hydroxyapophyllite.

**India.** Specimens from the Poona district, from Nasik, and from the Ahmed Nagar district are fluorapophyllite. The specimens studied were all from material which has been imported during the last ten years.

Many other localities were briefly examined in the search for the (OH) end-member. However, one or two analyses are not necessarily indicative of the composition of all apophyllite from a given locality. The fine crystals from the Centreville, Virginia locality (Medici, 1972) are neither end-member but are, for the most part, physical mixtures, with both phases occurring within a given "crystal". These Centreville crystals, together with apophyllite from other localities not studied in detail, should be called apophyllite. Apophyllite is still a valid mineral name for all specimens which have not been determined to be either end-member.

It is neither possible, nor desirable, for the authors to examine specimens for collectors to determine their correct species names. The IMA Commission ruling clearly states that all unknown material should be called apophyllite. We sincerely hope that the information contained herein is of use to collectors and curators.

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