

# MICROMOUNTERS OF NEW ENGLAND

NEWSLETTER #68

January 2, 1982

The next regular meeting will be held at the Anderson's home, at 17 Ginley Road, Walpole. on Saturday - January 16.

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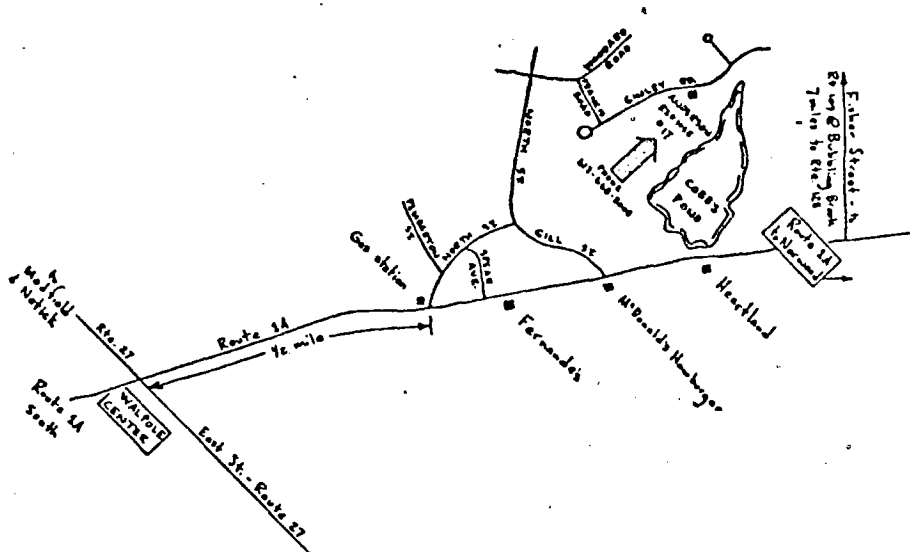
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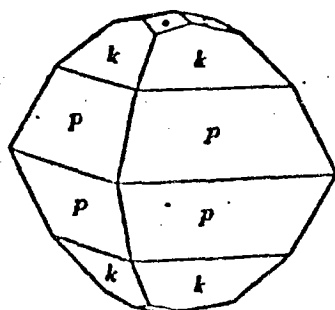
## DUES REMINDER

We plan to include an updated membership list in the February Newsletter of all members who have paid their dues for 1982. Dues are \$3 and can be sent to Janet Cares or brought to the January 16 meeting.

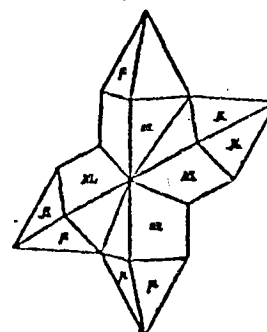
## GLOSSARY UPDATE

The Mineralogical Record has restripped and reprinted The Glossary of Mineral Species' 1981 additions and corrections into an eight page insert which is of the same page size as the Glossary and which will be easily attached inside the back cover. These are now available from the Circulation Manager, The Mineralogical Record, P.O. Box 35565, Tucson, AZ 85740. Send 50¢ per copy (in stamps if you prefer).

## ANATASE



SOMERVILLE,  
MASS.



QUINCY,  
MASS.

# "SODIUM-RICH DACHIARDITE FROM THE FRANCON QUARRY, MONTREAL ISLAND, QUEBEC"

This paper by Bonardi et al appeared in the "Canadian Mineralogist", v. 19, p. 285 (May, 1981), describing this zeolite as "silky white acicular crystals forming parallel and divergent fibrous bundles of tiny brittle blades 1 to 2 mm in length. Less commonly it exhibits an hourglass structure". "It is associated with yellowish white crystalline aggregates of ankerite, light yellow, cone-shaped and ellipsoidal calcite, white transparent, sheaf-like and leaf-shaped quartz, yellow weloganite and white matted fibers of wordenite". Hardness is 4½ and specific gravity 2.14. It has previously been found in Italy and Japan, and may be a new mineral, but has not been accepted by the IMA. Due to its small size (less than 1/16" in length) and its color, recognition would be difficult, and its presence in collected material unlikely, since it has so far been found only in one localized pocket in 1974.

"SPERTINIITE,  $\text{Cu}(\text{OH})_2$ , A NEW MINERAL FROM THE JEFFREY MINE, QUEBEC" by J. Grice and E. Gasparrini, Can. Min. v. 19, p. 337 (May, 1981). This is an extremely small mineral, forming botryoidal aggregates approximately 100 µm in diameter of blue to blue-green color on "finegrained, dense, white diopside and grossular, partly coated with pale green vesuvianite". It is soft and easily crushed, has a specific gravity of 3.9, is strongly pleochroic, and soluble in acid. It is associated with native copper, atacamite, and chalcocite, of which it is thought to be an alteration product. It has also been found from Ely, Nevada.

## Stereo Projection Microscope Announced



Vision Engineering Inc. have just commenced marketing the TS-1 Zoom Stereo Projection Microscope which represents a technical breakthrough in inspection technology. It is the world's first high resolution stereo microscope which does not require the use of eye tubes and is designed for processes which involve long periods of viewing.

The systems rely upon a unique form of optical imaging making eye tubes unnecessary, and yet retaining image brilliance and high resolution, by projecting a spacial image without the use of the usual ground glass screens. This makes it possible for customers who are inexperienced at looking through binocular microscopes to be able to view items of jewelry with ease in addition to its applications for manufacturing.

A wide range of accessories, including measuring and floating stages, stands, reticules, cameras, etc., are available providing a "just sit down and view" presentation with minimum eye strain as compared to conventional inspection equipment. Magnification ranges from 5 through 100X. The head itself, together with optics and illuminators, are also sold separately as an OEM scope for mounting on process machinery. For further information, please contact Vision Engineering Inc., Kenosia Avenue, Danbury, Connecticut 06810. ©

THE CANADIAN MINERALOGIST  
v. 19, p. 411, 1981

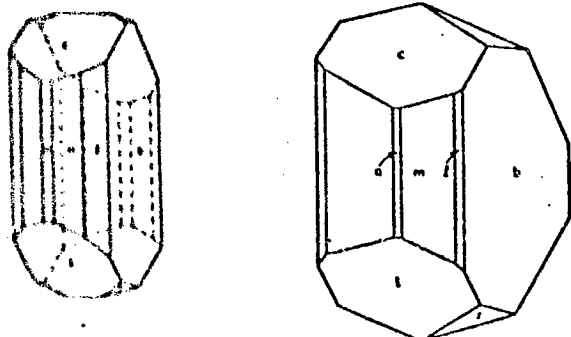
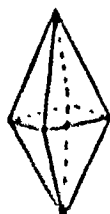


FIG. 1. Crystal forms of petarose from Mont St. Hilaire, Quebec.

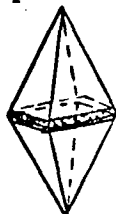
# ANATASE

#68

Anatase, titanium dioxide ( $\text{TiO}_2$ ), is a rare always crystallized mineral found most frequently in vein or fissure type deposits of the alpine variety. The most common crystal form is a steep bipyramid with striations perpendicular to the c-axis. All but one of the fifteen localities (which isn't very many) represented in my micro collection have either the bipyramid or tabular form. The tabular form looks like wulfenite but is actually only a portion of a fully developed bipyramid, as shown below. The other more complex form is a nice transparent blue crystal section as shown below.

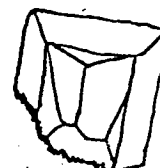


BIPYRAMID



ONLY THIS PORTION  
DEVELOPED

TABULAR



COMPLEX  
TABULAR

As already noted the remaining crystals are either the bipyramid or tabular and are outlined in the following table.

LOCATION	BIPYRAMID	TABULAR
CUMBERLAND, RI	SHARP DARK BLUE ON AND IN QUARTZ	
SMITHFIELD, RI (JCT. 44 + 295)		GOLDEN - TRANSLUCENT
SOMERVILLE, MASS.	GEMMY - GOLDEN	
TOPSHAM, MAINE	SHARP - VERY SMALL DARK BLUE	
MT. ST. HILAIRE, QUE.		TRANSPARENT - BLUE
NORWAY	VERY SHARP BLUE	
VAL CAURADI AREA SWITZERLAND	EXTREMELY SHARP + LUSTROUS BLUE	
WALZBERG AREA AUSTRIA	LEMON-YELLOW TRANSPARENT	
JEFFERSON CO., MONTANA	CRUDE - BLUE/BLACK	

John Anderson