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Dues are \$3.50 per year and are due on January 1st, payable to the Treasurer.

Contributions of news items for the Bulletin are welcome and should be sent to the Bulletin Editor.

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This bulletin may be quoted if credit is given.

# → NEXT MONTH

The November meeting of the MMNE will take place at the home of Janet and Steve Cares Saturday, Nov. 16, 1985

# MICROMOUNTERS OF NEW ENGLAND

OCTOBER 1985

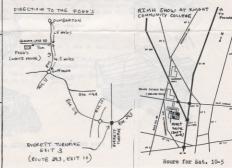
NEWSLETTER #101

This month the Micromounters of New England will feature two meetings. The next Regular meeting will take place on Saturday, October 5, 1985 at the home of Forrest and Vera Fogg in Goffstow, Nik. From reports that I have been receiving, the foliage is coming along handsomely in New Hampshire this year.

The second meeting this month will be an informal one, and will be held on Saturday, October 26, 1985 at the Rhode Island Kineral Hunters Gem and Kineral Show in Warwick, RI. This is a new location for the show so a map is included in this bulletin. We hope as many of you can make it to this meeting. The RIMH is celebrating their Twenty-fifth Anniversary, and the these for this year's show is: "The Beauty of Silver".

# MICROTIP

Solvents and plastic boxes or foam-mone get along, others create havor. For removing the gumy residue left after peeling off a label, petroleum-based solvents or mineral spirits such as Thin.—Ware most offective. Turpentine also does the job, but it will alouly dissolve plastic foam often used as a mounting base. Actone, which is often suggested for rapid drying of specimens after washing, in a dissater, dissolving both foam and most types of plastics used in boxes. A good substitute is denstured (grain alcohol) such as "Lymsol-Which takes a little longer to evaporate, but is kind to plastics. It is also less hazardous from the safety standpoint, being less flammable than acctone,—"Jamet Cares



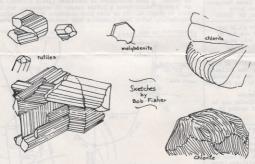
From Bob Fisher of St. Catharines comes the following .....

Last year Garry Glenn of Niagara Falls, Ontario, found doubly terminated blue anatase with Chlorite and platy brown rutile on a matrix of quartz all embedded in calcite, in the Poudrette Quarry at Mont St. Hilaire, Que

This June he and I went again to the Poudrette to look for more of the same. After much futile looking for the same kind of rock and the same grungy calcite surface, near the end of the afternoon, I found a small surface of calcite with a hint of chlorite; but I didn't have my lOX lens with me and so wasn't sure; so I chisled off a handful of the calcite-rock surface and took it home.

A few days later I put the pieces in acid to remove the calcite. I found a double layer of a white matrix of stubby crystals that looked like slbite; I gently pried the layers apart and found two surfaces with the same chlorite as found last year. But instead of anatase, I found splendid black, striated, single and multiple crystal groups of rutile. Some are in beautful zigzag formations, just as shown in the textbooks. The rutiles were on one surface only; on the other surface, as well as the rutiles were brilliant, hexagonal, thick plates of molybdenite. None of the brown thin plates of rutile with the fancy surface patterns could be found.

So, typically of Mont St. Hilaire, rocks in close proximity often have great variety in species and form of crystal. See sketches below.



FROM CMMA "MICRONEWS", MURIEL & ERIC WOOD, EDITORS 9/85

### DOYLETTE: A NEW MINERAL FROM CANADA

Chemical Formula Al(OH)<sub>3</sub>
Crystal system Triclinic

Optical Constants Biaxial (+) 2V=770

# 1.545, p1.553, 1.566 (Sodium light)

Hardness  $2\frac{1}{2}-3$ 

Density 2.48

Cleavage Perfect (010). fair (100)

Color, luster Colorless, white, creamy-white or bluish-white;

vitreous, pearly or dull.

Streak White

Solubility Not attacked by 1:1 HCl, HNO3, or H2SO,

Other Not fluorescent. Produces water when heated in closed tube. Plates slightly flexible, but inelastic

Doyleite is the previously designated UK45 from Mont St-Hilaire, and unknown No. 11 from the Francon Quarry, Montreal, Quebec. It is named for E. J. Doyle of Ottawa, Ontario, who found the St-Hilaire material.

At St-Hilaire doyleite occurs as rosettes of platy crystals up to 0.8 mm lining vugs fnalbitite, which consists primarily of albite with about 5% siderite and possible pyrite, molybdenite, zircon, and fluorite. Minerals accompanying it within the vug are calcite and a small amount of pyrite. Doyleite crystals are in places coated with a thin film of dark brown amorphous material, probably iron oxide. Some rosettes have an albite core.

At Francon doyleite is finely granular, forming powdery to compact globules, botryoidal and smooth porcelain-like crusts and sheets, often on cryolite or strontianite crystals, which in some cases have been leached out, leaving shells of doyleite. It is generally addixed with unknown No. 3 which is fluorescent. Other associated minerals are albite, dresserite, damsonite, fluorite, and analcime.

## References:

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Chao, G.Y., J. Baker, A.P. Sabina, and A.C.Roberts (1985) "Doyleite, a New Polymorph of Al(OH)<sub>2</sub>.." Canadian Mineralogist 23:21

Sabina. A.P. (1979) "Minerals of the Francon Quarry..." Geological Survey of Canada Paper 79-1A:115