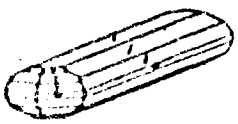
CHALCOCITE

Bristol.



MICROMOUNTERS OF NEW ENGLAND

NEWSLETTER #64 July 4, 1981

Martha and John Reiner will host the next meeting on July 18, 1981, at their home on the shores of Lake Winnipesaukee, in Center Harbor, NH. There will be a late afternoon cookout so everyone is asked to bring along a goodie to share. On Sunday, the 19th, many members will be collecting at the Palermo Mine in North Groton (see attached map for both locations).

We wish to welcome the following new members:

Bob and Shelley Monaghan
76 Summer Avenue, Apt. 10
Stoughton, Mass. 02072

The Memorial Day trip to Canada was rewarding for some members. Steve Cares found a variety of micro species at St. Hilaire while very good weloganite and dresserite was found at Francon. Asbestos was not producing the abundant vesuvianite that was collected last year, but good singles and clusters of grossular were found on the right side of the dumping area.

Ray Denicourt has moved to Florida so our new President - Gerry Lindeyer has some thoughts for us at the July meeting, as well as finding a new Vice-President.

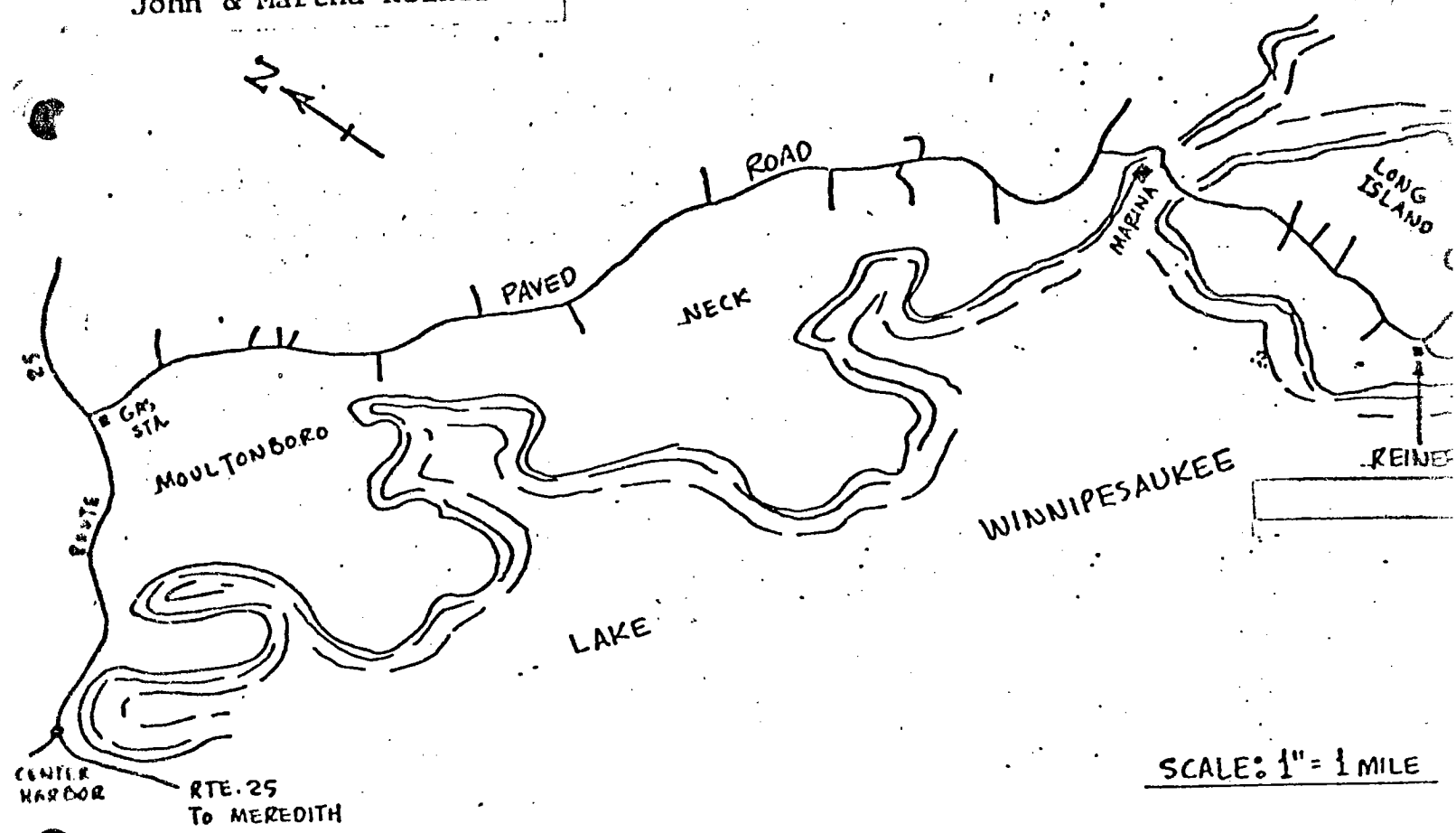
The next regular meeting will be in September at a yet to be announced location. There will be a good turnout of our members at the Sunapee Show, on August 15 & 16, upstairs in the retail dealers building at Sunapee State Park.

Moat Mountain & Government Pit area:

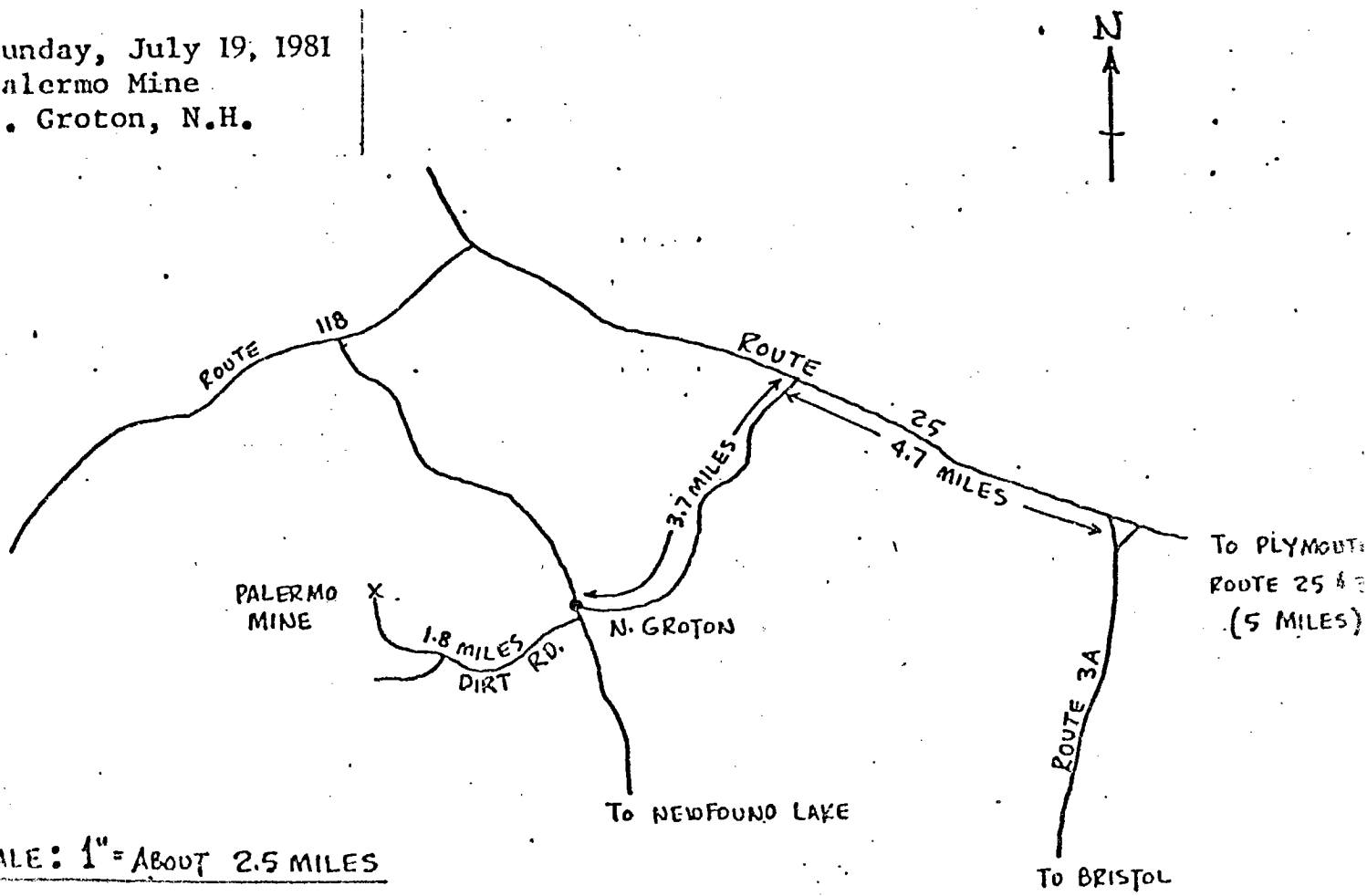
My latest information is that no permit is required to collect in the White Mountain National Forest except the small area known as the Moat Mountain Smokey Quartz diggings. Any questions or permit requests should be directed to the ranger in Conway. Perhaps someone of our members could supply us with a list of minerals found in the area - I'll bet there are 30 or 40 species found. At a recent meeting I saw nice phenacite and cassiterite.

#64

Saturday, July 18, 1981
John & Martha Reiner



Sunday, July 19, 1981
Palermo Mine
N. Groton, N.H.



some information on Connecticut

#64

BOOKS

State Mineralogy

The Mineralogy of Connecticut (1955) Richard Schooner, Fluorescent House, Bradford, Conn., 96 p., out of print.

Connecticut Minerals (1951) J.A. Sohon, Conn. Geol. and Natural History Bull. 77, 128 p., softcover, $2.00 postpaid from: Sales and Publications, State Library, Hartford, Connecticut 06115.

Minerals of Connecticut (1931) S.F. Schairer, Conn. Geol. and Natural History Bull. 51, 121 p., illus., softcover, out of print, Peri Lithon, 76 $12.

Area Mineralogy—Pegmatites

The Paragenesis of the Walden Pegmatite, Portland, Connecticut (1970) D. M. Seaman, *Rocks and Minerals*, 45, 443–449, 523–529.

The Bertrandites of Connecticut (1975) Wm. A. Henderson Jr., *Mineralogical Record*, 6, 114–123.

Pegmatites of the Middletown Area, Connecticut (1958) Frederick Stugard Jr., U.S. Geol. Survey Bull. 1042-Q, p. 613–683, maps, softcover, out of print, Peri Lithon, 76–$6.00.

Collecting Guides

see Massachusetts: *Mineral Guide to New England.*

Connecticut Mines and Minerals (1971) John Hiller Jr., Privately pub., 64 p., maps, softcover, out of print.

Rock Hound's Guide to Connecticut, 2nd ed. (1972) K.H. Ryerson, Pequot Press Inc., Old Chester Road, Chester, Conn. 06412, 57 p., maps, softcover, $2.95 postpaid.

Middletown Pegmatite Localities, Connecticut Mineral Folios No. 1 (1954) R.R. Kirkland, Adventure gateways, East Haven, Conn., 8 p., maps, softcover, out of print.

Minerals of Western Connecticut and Southeastern New York State (1959) R.E. Januzzi, Mineralogical Press, Danbury, Conn., 106 p., maps, softcover, out of print.

Mineral Localities of Connecticut and Southeastern New York and Pegmatite Minerals of the World (1978) R.E. Januzzi and D. M. Seaman, Privately pub., 450 p., maps, due out in May, order from Dinosaur Gift Shop, Route 6, Brewster, New York 10509.

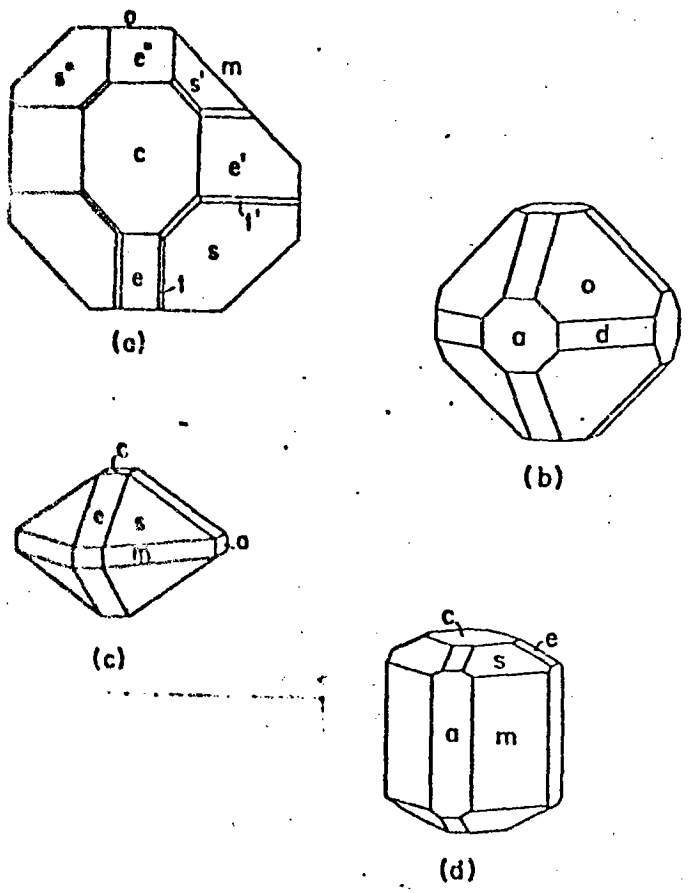


Fig. 1. a—Top view of distorted rutile crystal from Watertown, Conn. b—Isometric crystal showing cube, octahedron and dodecahedron. c,d—Idealized views of major faces of Watertown rutile.

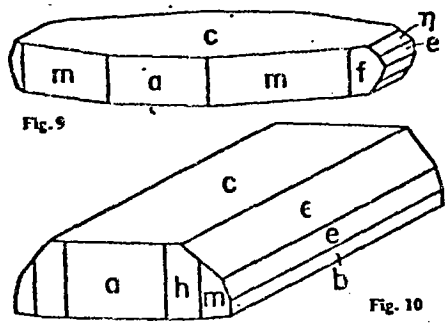


Fig. 9. Complex bertrandite crystal. Slocum quarry, East Hampton. Forms a,c,e,f,m,η. *Fig. 10.* Hemimorphic bertrandite crystal. Strickland quarry, Portland. Forms a,b, c,e,h,m,ϵ.

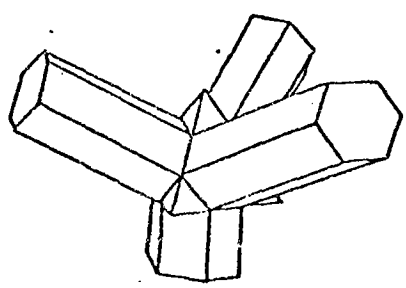


Figure 3. Epitaxial growth of wurtzite on sphalerite as shown by Mitchell and Corey, showing the relationship between the three-fold axis of sphalerite and the six-fold axis of wurtzite.

from Thomaston Dam

#64

THE ZEOLITE FAMILY

$(Na_2K_2.Ca.Ba.Sr.Mg)(Al.Si)O_{2\ n}\cdot xH_2O$

prepared by Rudy W. Tschernich

SPECIES	FORMULA	SYSTEM
NATROLITE	$Na_2(Al_2Si_3O_{10})\ 2H_2O$	Orthorhombic
MESOLITE	$Na_2Ca_2(Al_2Si_3O_{10})_3\cdot 8H_2O$	Monoclinic
SCOLECITE	$Ca(Al_2Si_3O_{10})\cdot 3H_2O$	Monoclinic
THOMSONITE	$Ca_2Na(Al_5Si_5O_{20}).\ 6H_2O$	Orthorhombic
GONNARDITE	$Na_2Ca(Al_4Si_6O_{20})\ .6H_2O$	Orthorhombic
EDINGTONITE	$Ba(Al_2Si_3O_{10})\ .4H_2O$	Orthorhombic
HEULANDITE	$(Ca.Na_2)(Al_2Si_7O_{18})\ 6H_2O$	Monoclinic
CLINOPTILOLITE	$(Na_2\ K_2Ca)(Al_2Si_9O_{22})\ 6H_2O$	Monoclinic
STILBITE	$(CaNa_2K_2)(Al_2Si_7O_{18})\ 7H_2O$	Monoclinic
STELLERITE	$Ca(Al_2Si_7O_{18})\ 7H_2O$	Orthorhombic
EPISTILBITE	$Ca(Al_2Si_6O_{16})\ 5H_2O$	Monoclinic
FERRIERITE	$(NaK)_2Mg(Al_3Si_{15}O_{36})(OH)\ 9H_2O$	Orthorhombic
BREWSTERITE	$(SrBaCa)(Al_2Si_6O_{16})\ 5H_2O$	Monoclinic
HARMOTOME	$Ba(Al_2Si_6O_{16})\ 6H_2O$	Monoclinic
PHILLIPSITE	$(K_2Na_2Ca)(Al_2Si_4O_{12})\ 4H_2O$	Monoclinic
GISMONDINE	$Ca(Al_2Si_2O_8)\ 4H_2O$	Monoclinic
GARRONITE	$NaCa_{2.5}(Al_6Si_{10}O_{32})\ 13\frac{1}{2}H_2O$	Tetragonal
CHABAZITE	$Ca(Al_2Si_4O_{12})\ 6H_2O$	Rhombohedral
GMELINITE	$(Na_2Ca)(Al_2Si_4O_{12})\ 6H_2O$	Rhombohedral
HERSCHELITE	$Na_2(Al_2Si_4O_{12})\ 6H_2O$	Rhombohedral
LEVYNE	$Ca(Al_2Si_4O_{12})\ 6H_2O$	Rhombohedral
OFFRETITE	$(K_2CaMg)_5(Al_{10}Si_{26}O_{72})\ 31H_2O$	Hexagonal
ERIONITE	$(CaK_2Na_2Mg)_{4.5}(Al_9Si_{27}O_{72})\ 27H_2O$	Hexagonal
FAUJASITE	$(Na_2Ca)(Al_2Si_4O_{12})\ 8H_2O$	Isometric
MORDENITE	$(Na_2K_2Ca)(Al_2Si_{10}O_{24})\ 7H_2O$	Orthorhombic
DACHIARDITE	$(CaK_2Na_2)_3(Al_4Si_{18}O_{45})\ 14H_2O$	Monoclinic
ANALCIME	$Na(AlSi_2O_6)\ H_2O$	Isometric
WAIRAKITE	$Ca(Al_2Si_4O_{12})\ 2H_2O$	Monoclinic
LAUMONTITE	$Ca(Al_2Si_4O_{12})\ 4H_2O$	Monoclinic
YUGAWARALITE	$Ca(Al_2Si_5O_{14})\ 4H_2O$	Monoclinic
PAULINGITE	Hydrous Aluminosilicate of K & Ca	Isometric
COWLESITE	$Ca(Al_2Si_3O_{10})\ 6H_2O$	Orthorhombic