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MICROMOUNTERS OF NEW ENGLAND

NEWSLETTER #74

OCTOBER 1, 1982

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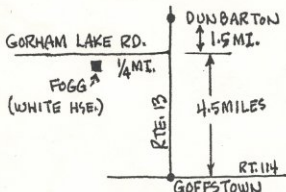
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Dues are \$3.00 per year and are due on January 1, payable to the treasurer.

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

THE NEXT REGULAR MEETING WILL BE
HELD AT THE FOGG'S, IN GOFFSTOWN, N.
ON SUNDAY, OCTOBER 17, 1982 IF YOU
SHOULD GET LOST THE PHONE IS 774-645



TENTATIVE UPCOMING SCHEDULE -

1982 SAT - NOV. 20 SUDBURY
1983 SAT OR SUN JAN. 22 OR 23 BU
SAT OR SUN FEB. 26 OR 27 WALPOLE
SAT - MAR. 26 CAMBRIDGE
SAT - APR. 23 RHODE ISLAND
SAT - MAY 14 SPRINGFIELD

TABLE II
REPORTED LOUDVILLE ELEMENTS AND MINERALS

16 ELEMENTS	24 MINERALS Primary minerals underlined	14 CHEMICAL COMPOSITIONS
LEAD (Pb) (Copper) (Chlorine) (Chlorine-Carbon) (Chlorine-Phosphorus) (Chlorine-Arsenic) (Molybdenum) (Tungsten)	<u>GaLenA</u> , ... Anglesite Linarite Cerussite Columbite Phosgenite Pyromorphite Mimeteite Wulfenite Stolzite	<u>SULPHIDE</u> Sulphate Copper Sulphate Hydrate Carbonate Chlorate Chloro-Carbonate Chloro-Phosphate Chloro-Arsenate Molybdate Tungstate
SILVER (Ag)	<u>ISOMORPHIC MIXTURE IN GALENA</u> (Possibly) <u>ARGENTITE</u>	<u>SULPHIDE</u>
COPPER Cu (Copper-Iron) (Copper-Silicon)	<u>CHALCOPYRITE</u> (CuFe) <u>BORNITE</u> Azurite Malachite Brochantite Chrysocolla	<u>SULPHIDE</u> Cu enriched Fe Carbonate Carbonate Sulphate Silicate
IRON (Fe)	<u>PYRITE</u> Limonite Pb Fe and Cu Minerals	<u>SULPHIDE</u> Oxide Hydrate
ZINC* (Zn)	<u>SPHALERITE*</u>	Sulphide
BARIUM* (Ba) (*Principally at Schramm Farm)	<u>BARITE*</u>	<u>SULPHATE</u>
SILICA (Si)	<u>QUARTZ</u>	<u>OXIDE</u>
MANGANESE (Mn)	<u>PYROLUSITE</u>	Oxide
CALCIUM (Ca)	<u>CALCITE*</u>	Carbonate
FLUORINE (F)	<u>FLUORITE#</u>	Ca Fluoride

*Original minerals in veins—dissolved or replaced by waters containing Silica. Very rare.
Pseudomorphs of quartz after Fluorite and Calcite.

3, 4, 5

Minerals Previously Reported
(Primary minerals are starred)

*Galena — PbS (Mines 1, 2 & 3) Cleavable masses embedded in barite and quartz

Anglesite — PbSO₄ (Mines 1 & 2) White, tinged gray, Gores — Three crystal forms found plus eye around galena, massive and as coatings.

Fluoresces bright golden yellow LW.
Cerussite — PbCO₃ (Mine 1) More plentiful than anglesite White, cream, pinkish, 6 crystal and twinned forms found from mines to 1/2 inch long specimens in pockets, also as coatings.
Linarite — PbCu(SO₄)₂ (OH)₂ (mine 1) Blue Several specimens with beautiful micro crystals in pockets, also small massive.

Phosgenite — (PbCl)₂CO₃ (Mine 1) White, gray Micro prismatic crystals Weakly fluorescent LW yellow.
Pyromorphite — (PbCl)₂Pb₃(PO₄)₆ (Mines 1 & 2) Green, yellow 10x and micro crystals and as betrydral crusts.
Mimeteite — (PbCl)₂Pb₃(AsO₄)₆ (Mine 1) White acicular crystals and crusts Var. Campallite—(Mine 1) Light brown coatings (Not previously reported)
Wulfenite PbMoO₄ (Mine 1) Yellow, orange red crystals (2 forms) Generally associated with pyromorphite.
Stolzite — PbWO₄ (Mine 1) Gray micro crystals
*Chalcophyllite — CuFeS₂ (Mines 2 & 3 some at 1) Crystals and massive in small clusters in barite
Benite — Cu₂FeS₂ (Mines 2 & 3 some at 1) Coatings on chalcophyllite and galena
Anurite — 2CaCO₃(OH)₂ (Mines 1, 2 & 3) Azure or Berlin blue Small coated areas
Malachite — CuCO₃(OH)₂ (Mines 1, 2 & 3) Bright green Transmitted light light green or yellow or yellow-green Fine acicular crystals, in rosettes
Brochantite — CuSO₄·5Cu(OH)₂ (Mine 1) Light emerald green or black-green Transmitted light blue green Micro crystals
Chrysocolla — Cu₂O₂·2H₂O (mine 1) Sky or Turquoise blue Small coated areas
Pyrite — FeS (Mine 1) Rare small clusters of crystals
Limonite — 2Fe₂O₃·3H₂O (Mines 1 & 2) Brownish or ochre yellow and brown Earthy coatings
*Sphalerite — ZnS (Mines 1 & 2 in small masses in barite or quartz and in cleavable masses in barite at 3) Brown, blackish brown, red
*Barite — BaSO₄ (Mines 1 some 2 and 3 plentiful) White, brownish Crystals and massive

*Quartz — SiO₂ (Mines 1 & 3 drusy to 1/2 inch crystals and 1, 2 & 3 massive) White, Citrine, Amethyst and forming pockets after calcite and fluorite
*Pyrolusite — MnO₂ (Mine 1) Iron Black Dendrites, coatings
*Calcite — CaCO₃ (Mines 1 & 2) Rare White Massive
*Fluorite — CaF₂ (Mine 2) Rare Purple Massive

Minerals not previously Reported
Albite — NaAlSi₃O₈ (Mines 1 & 3) White Massive
Arenophyllite — FeAs₂(Fe₂FeAs₂)₂ (Mine 1) Steel gray Micro crystals
Aurichalcite — 2(Zn, Cu)CO₃·3(Zn, Cu)(OH) 2 Light blue micro acicular crystals in pockets
Biotite — H₂K(Mg, Fe)₂Al(SiO₃)₂ (Mine 1) Blackish Not common
Calderonite — 2(Pb, Cu)O·SO₃·H₂O (Mine 1) Green Small crystals
Chalcocite — Cu₂S (Mines 1, 2 & 3) Blackish, tarnishing blue-green, Coatings on Chalcophyllite and galena, small
Covellite — CuS (Mines 1, 2 & 3) Indigo-blue, Tarnishing purple, Coatings on Chalcophyllite and galena, Small Rare
Hydrocerussite — 2PbCO₃·Pb(OH)₂ (Mine 1) Thin colorless Hexagonal plates on edge Micro crystals
Leadhillite — 4PbO·5SO₃·CO₂·H₂O (Mine 1) White grayish, Micro tabular crystals in pocket
Litharge — PbO (Mine 2) Yellow-Orange Coatings
Muscovite — (OH)₂KA₁(AlSi₃O₁₀)₂ (Mine 1) Gray in pegmatite (Evidently at some place they got down to the pegmatite deposition).
Percyite — PbCl₂·CuO·H₂O (Mine 1) Sky blue Coating, Rare
Smithsonite — ZnCO₃ (Mine 1) Blue Coating Rare
Witherite — BaCO₃ (Mines 2 & 3) White Associated with sphalerite Plus others still to be identified.

References:

- 1—Geochronology by Raskane and Schramm
- 2—Data on Geochemistry by F. W. Clarke
- 3—A System of Mineralogy by Dana—Sixth Edition
- 4—Rocks and Minerals July 1948, May-June 1957 and Jan-Feb. 1964
- 5—Minerals and Rocks of Springfield and Vicinity by L. D. Olds. Available at the Museum of Natural History, Springfield, Mass. (\$0.50).