

# MICROMOUNTERS

## OF NEW ENGLAND

### NORTHEAST MEETING

Saturday, May 9, 1998

4-H Conference Center  
Ashland, Massachusetts

#### Program:

9:00 Registration and Informal Session  
12:00 Lunch  
1:00 Presentation:

#### **Zeolites: Occurrence and Recognition**

by

William A. Henderson, Jr.

2:00 Doorprize drawings  
4:00 Departure

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President—Michael Kieron

Vice-President—Jim Warner

Secretary—Patricia Barker

Treasurer—Janet Cares

Newsletter Editor—Johannes Swarts

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*Additional Information*

*Mrs. Janet Cares, 18 Singletary Lane, Sudbury, Massachusetts, 01776, (978) 443-9180*

GUEST SPEAKER: William A. Henderson, Jr.  
62 Robin Ridge Drive  
Madison, CT 06443-2044

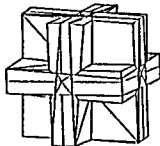
A native of Winthrop, Massachusetts, Bill attended Harvard where he received a degree in chemistry and took courses in mineralogy under professors Hurlbut and Frondel. For his PhD in chemistry he went to Yale after which he worked at American Cyanamid for thirty three years, retiring as a Research Fellow.

Over the course of forty years Bill has amassed a collection of over 13,000 world-wide specimens including at least 1200 species, many self-collected, and many acquired by diligent trading. His specialties are zeolites, phosphates, and the minerals of Mont St-Hilaire. The zeolite willhendersonite from San Venenga quarry in Terni, Umbria, Italy is named for him.

Bill is widely recognized as the author of the column "Microminerals" which appears in the Mineralogical Record in addition to other articles of more general interest to mineral collectors. He has also contributed to Rocks & Minerals and Rivista Minealogica Italiana. He is sought as a lecturer, and at our first Northeast Meeting in May, 1982 he was our speaker on the topic of non-pegmatite phosphates. He is a member of Micromounters of New England in addition to a number of other mineral clubs. At the September, 1997 Paul Desautels Micromount Symposium sponsored by the Baltimore Mineral Society Bill was made a member of the Micromounters Hall of Fame.

Aside from minerals, he has many hobbies including wood-working, gardening, bird watching, fly fishing, canoeing, photography, and travel. As a gardener he propagates azaleas, of which he has about five hundred plants and over one hundred varieties.

Bill and his wife, Audrey, have two children and three grandchildren.



**WILLHENDERSONITE**

MICROMOUNTERS OF NEW ENGLAND  
NORTHEAST MEETING PROGRAM BOOKS, 1982-1992

ADDITIONS AND CORRECTIONS

1982

- Cover, bottom lines: Secretary - Ralph Carr, Jr., Treasurer - Mrs. Janet Cares
- Page 3, line 10: correct word Francon; last Para. should read: Foggite is named for Forrest Foggy, former co-owner of the Palermo Mine, and described as a "collector of micromounts who has greatly advanced our knowledge of the practically unique Palermo paragenesis". Last, but not least is whitmoreite, named for Bob Whitmore, the present owner. Of nim,
- Page 5, Para. 6, line 2: Change "New England Micromounters" to "Micromounters of New England".
- Page 6: "Swapping Micromounts" author is John Reiner.
- Page 9, Para. 2, line 2: Correct word hydroxylapatite.
- Page 11, next to last line under number 5: Correct rockbridgeite.
- Page 12, Para. 2, line 4: Change "those" to "one",  
Line 8: Correct word "raping"
- Page 13, Para. 2 & 3: Change 113 to 114.  
Para. 2: Correct word Hopkinton.  
Para. 4, line 2: Last word is scheelite, line 5: correct word cerussite, next-to-last line: Correct word chabazite.
- Page 15, line 2: Change to volume 1, number 2.

1983

- Correct St. Hilaire to St-Hilaire throughout (pp. 2, 5, 10, 14)
- Page 4: Transfer galena, hematite, magnetite, pyrrhotite, and sphalerite from "Minerals which are Slowly Soluble..." to "Minerals which are not Soluble"
- Page 5, "Francon Unknowns = St-Hilaire Unknowns": UK 43 is now franconite. UK 45 is now doyleite. UK 50 is now hochelagaite.
- Page 6, Para. 2, line 2: Change "form" to "formed".
- Page 7, Para. 1, line 6: Last word is "iri-".
- Page 8, Para. 4, line 3: Change "form" to "from", last line: Correct word WahWah.
- Page 9, Species/Locality Table:  
CA - Little Lake: Add cristobalite, hematite.  
NM - Beaverhead: Add hematite.  
OR - Summit Rock: Add cristobalite, hematite, topaz.  
Lemolo Lake: Add hypersthene, tridymite.  
UT - Thomas Range: Add spessartine.
- Page 13, Massachusetts Checklist: Add \*Annite, \*Cunningtonite, \*Vermiculite.
- Page 14, Franklin-Sterling Hill: Baumite has been discredited.  
NOTE: Some one-locality minerals have since been found in other localities (palermoite, sabinaitite, steacyite, etc.)
- Page 15: Correct word "contributors".
- Supplement, under OXIDES: Unknown No. 10 is now franconite, No. 11 is now doyleite, No. 13 is now hochelagaite.

1984

- Page 2, line 9 of biography: Correct word mineralogist.  
Page 5, last entry under "Rocks & Minerals": Change name to Betty Lynch Williams (Ralls), change dates to Sept 1972 - June, 1975, add Richard H. Greene, J/A 1978 - Nov/Dec 1980  
Page 7, line 6: Delete one "that".  
Page 9, Correct word parasite throughout (Para. 1, lines 8, 15, 18, 20, Para. 2, lines 6, 8); para. 1, next-to-last line: Delete one "that", para. 2, line 9: next-to-last word is "a".  
Page 10, 11, "Minerals of Maine": Type minerals are \*beryllonite, \*cookeite, \*gainesite, \*landesite, \*perhamite, \*mccrillisite  
Page 11: Correct spelling of fayalite, ferroaxinite, goyazite, lithiophilite, nickeline; add vesuvianite.  
Page 14, Para. 3, line 13: Correct word aegirine  
Page 15, Para. 2, line 1: Correct word sabinaitite.  
Page 17, Para. 2, line 2: Correct word aegirine; line 3: Correct word catapleite.  
Page 18: Correct word gadolinite-(Ce)

1985

- Page 2, line 2: Fourth word is "he".  
Page 5, Para. 2, line 5: Correct phrase "can be risky".  
Page 7, Para. 3, line 1: Correct word series; line 6: Delete word "and"; line 10: Close parenthesis after word "California"  
Page 10, Entry 5: Correct word crystal, entry 9: Correct word "St-Hilaire", add coauthor D. Richerson.; last line: Change No 4 to No 3.  
Page 13, line 16: Correct word retrieval; line 20: Delete one "without".  
Page 15, 3d line from bottom: Correct word storage  
Page 17, last Para., line 1: Correct word identify  
Page 19 after "Steve Cares": Correct word specimen

1986

- Page 5, line 5: After 15X, add 20X.  
Page 9 under Cerussite, line 3: Add word "acid" ; under Wulfenite: Place parentheses around words (thick or thin); Brochantite: Correct formula is  $Cu_4SiO_4(OH)_6$ ; under Hemimorphite: Correct formula is  $Zn_4Si_2O_7(OH)_2 \cdot H_2O$ ; under Leadhillite: Correct formula is  $Pb_4SO_4(CO_3)_2(OH)_2$   
Page 10, Plumbogummite: Correct formula is  $PbAl_3(PO_4)_2(OH)_2 \cdot H_2O$ ; under Anderson: Underline Mineralogical Record; under Shelton: Underline Mineral Collector's Field Guide: The Northeast.  
Page 13, Hagendorfite: Delete final number 19; Leadhillite drawing 9: Add 1986: Cover; Leadhillite drawing 11: Delete 1986: cover; Samuelsonite: Add 1986: Cover; Whitlockite: Add 1986: 19; last line; Missing mineral is Whitmoreite.  
Page 14, first line under 1982: Correct (p. 5) to (p. 3).

1987

- Page 7, Para. 4, line 2: Correct word usually.  
Page 12, Para. 4: Delete G. as Rakestraw's middle initial.  
Page 15: Correct word Chrysotile.  
Page 16: Correct word Lithiophilite; Correct name \*Rhabdophane-(Nd) add \* to Tungstite.  
Page 17, under Henderson: Correct reference is 13:241-247; under Mandarino and Anderson: Correct title is Monteregian Treasures (1990)

1988

- Page 2: Correct speaker's address is North Carolina.  
Page 10, last Para., line 3: Correct first date to 1830's.  
Page 11, under \*PEABODY, line 3: Correct word "granodiorite".  
Page 12, Para. 2, line 1; correct word closed.  
Page 13, Para. 1, line 4: Correct name Stewart;  
In list: add \* to Graftonite  
Page 15, Para. 3, line 7: Correct date to 1973; line 9: Correct word purchased.  
Page 17, under Moore reference: Correct date is 1975; correct name Goedkenite.

1989

- Page 3, Para. 1, last line: Correct word yoethite; para. 3, line 7, word 8: Correct word minerals; line 12: Delete phrase "which involves a change in the valence of copper".  
Page 5, lines 6 and 13: Correct formula for azurite is  $Cu_3(CO_3)_2(OH)_2$ ; Line 16: Correct formula for prehnite is  $Ca_2Al_2Si_3O_{10}(OH)_2$ ; last line: Correct formula for stibiconite is  $Sb_3(OH)_5O_5$ ; correct word stibnite.  
Page 8, Table 1, line 2 of legend: Correct word transition; line 7: After word "uvite" add "and liadicoatite".  
Page 10, Para. 3, last line: Correct word minds  
Page 12: Delete Frondelite and entire line; Correct date for Annite is 1868; Under Graftonite correct locality is Melvin Mt., Grafton Co., NH; add Rhabdophane-(Nd), 1883, Salisbury, CT; Tungstite, 1822, Lane's Quarry, Monroe, CT; Vermiculite, 1866, Millbury, MA. Correct locality of Xanthoxenite is Palermo Mine, Groton, NH  
Page 13, Para. 3, last line: Second word is one;  
Para. 4: Add " See Rocks & Minerals (1989), 64:518."  
Page 16, Para. 2, 4th line from bottom: Insert period after word "collectors".  
Page 17, last reference: Correct citation is 64:518.  
Page 18, Para. 1, line 3: Correct word micromounters; under Kerresite: Correct word monoclinic; under Senarmontite: Correct formula  $Sb_2O_3$ ; under Stibiconite: Correct word earthy.

### 1990

- Page 2, last line: Correct word wolfeite  
Page 6, line 2: Correct word minerals.  
Para.3, line 5: Correct word meet.  
Page 10, Para. 3, line 5: Correct word workings.  
Page 11, Para. 1, last sentence: Change (See below) to (See p. 6)  
Page 12, Para. 1, line 4: Correct date to May 26,  
Para. 4, next to last line: Correct word Afghan.  
Page 17, under Sulfate Mineral Formulas: Correct formula for  
Caledonite is  $Pb_5Cu_2(SO_4)_3CO_3(OH)_6$

### 1991

- Page 9: Delete ? after title. Largely due to the efforts of  
author Sue Hadden, talc was passed by the legislature as the  
Vermont state mineral, and was signed into law May 28, 1992.  
Garnet (grossular) from Eden Mills was named state gem, and  
three state rocks were named: marble, granite, and slate.  
Page 11, under References: Correct name Bancroft.  
Page 15, last line of periodicals: Change "in press" to J/F, 1992  
Page 17, Para. 5, line 3: Correct word Rocks; line 3: Date of  
NH issue is J/A, 1990: line 6: correct date 1976; add  
Sinkankas, J.(1988), Rocks & Minerals, 63:10  
Page 18, last two species in list are Whiteite and Zircon.

### 1992

- Page 9, Column 3: Correct word Metavanmeersscheite, add  
Metazeunerite  
Page 10, Column 1: Correct word Phurcalite, add Romanite  
Column 2: Correct words Thorbastnasite, Tritomite-(Ce)  
Column 3: Add Uranosphaerite, Znuicalite  
Page 15, Add to list of authors:  
Nichols, N. (illustrations) 1987:17, 1989:6, 1990:10  
Whittemore, S. (xl drawings) 1991: Cover, 1991:6

## ZEOLITES REVISED

The subject of zeolites is particularly timely because of the recent release of the report of the Subcommittee on Zeolites of the International Mineralogical Association Committee on New Minerals and Mineral Names (see reference below). This committee has revised the definition of a zeolite placing greater emphasis on structure than in the past. In some instances series have been established whose members are identical except for a difference in the principal element. A hyphen and chemical symbol of that element will be appended to the series name in a manner similar to the Levinson system now in use for the rare earth-bearing elements, but omitting the parentheses. For example stilbite will be termed a series comprising two species, stilbite-Na and stilbite Ca. The species sodium dachiardite will become simply dachiardite-Na. Zeolite specialists should consult the report and relabel specimens accordingly. Most collectors will be satisfied with using the series name without the suffix.

The following list is based on the Subcommittee report and will undoubtedly be further revised in the future. A series is indicated by an asterisk (\*), individual members of which may be found in the report.

Amicite	Gismondine	Natrolite
Ammonioleucite	Gmelinite*	Offretite
Analcime	Gobbinsite	Pahasapaite
Barrerite	Gonnardite	Paranatrolite (?)
Bellbergite	Goosecreekite	Paulingite*
Bikitaite	Gottardite	Perllialite
Boggsite	Harmotome	Phillipsite*
Brewsterite*	Heulandite*	Pollucite
Chabazite*	Hsianghualite	Roggianite
Chiavennite	Kalborite	Scolecite
Clinoptilolite*	Laumontite	Stellerite
Cowlesite	Leucite	Stilbite*
Dachiardite*	Levyne*	Terranovaite
Edingtonite	Maricopaite	Tetranatrolite (?)
Epistilbite	Mazzite	Thomsonite
Erionite*	Merlinoite	Tschernichite
Faujasite*	Mesolite	Tschortnerite
Ferrierite*	Montesommaite	Wairakite
Garronite	Mordenite	Weinebeneite
Gaultite	Mutinaite	Willhendersonite
		Yugawaralite

REFERENCE: Coombs, D. S. et al, 1997. Recommended Nomenclature for Zeolite Minerals. Canadian Mineralogist 35:1571. Also refer to the Internet site of the Mineralogical Society of America: <[geology.Smith.edu/msa/msa/ktml](http://geology.Smith.edu/msa/msa/ktml)>

THANKS—are due to many people for their help in making this meeting a success. It would be impossible to list everyone who contributed so only those responsible for the various aspects are named here. Others will be credited in the Newsletter.

Margaret Stewart—Registrar

Edna Lerer—Sales and door prizes

Steve Cares—Specimen giveaways

Marilyn Dodge—Donor of framed mineral illustrations for drawing

Pat Barker and the Stewarts—Refreshments

Janet Cares—Souvenir Program Editor

All others who contributed time, specimens, food, or talent