MICROMOUNTERS OF NEW ENGLAND NEWSLETTER

March 1997
#197

The MMNE was organized on January 14, 1967, for the purpose of promoting the study of minerals that require a microscope.

PRESIDENT
James Clark
18 Central Street
Topsfield, MA 01983-1802
(508) 887-5881

VICE-PRESIDENT
Mike Kieron
38 Merritt Road
East Providence, RI 02915
(401) 434-0281

SECRETARY
Patricia Barker
P.O. Box 810
Campton, NH 03223
(603) 536-2401

TREASURER
Janet Cares
18 Singletary Lane
Sudbury, MA 01776
(508) 443-9180

EDITOR
Mike Swanson
29 Chestnut Hill
Greenfield, MA 01301-3003
(413) 773-3867

Dues are $6.00/year and due on January 1st, payable to the treasurer.

News items for the *Newsletter* are welcome and should be submitted to the Editor. The *Newsletter* may quoted if credit is given. The Club address is c/o Editor

Upcoming Meetings
May 10, Ashland, MA.
Annual meeting.
At the 4-H Club Center.

MMNE MEETING ANNOUNCEMENTS

The next MMNE meeting will be held on Saturday, April 12 at the Northboro, MA public library. Doors open at 9:30 AM.

1997 Mont Saint-Hilaire collecting dates: May 24/25; July 5(Saturday) (and July 6 at Varennes), July 26, August 23, September 13 and October 18 (all Saturdays).

László Horváth will speak Quebec at the annual meeting (Saturday, May 10) on the minerals of the DeMix Quarry in Varennes. In addition to being the type locality for varrenesite, the quarry has its own unique suite of minerals. It also has many species in common with Saint-Hilaire (sometimes better crystallized). A sign up sheet for the meeting is enclosed. Please return it promptly.

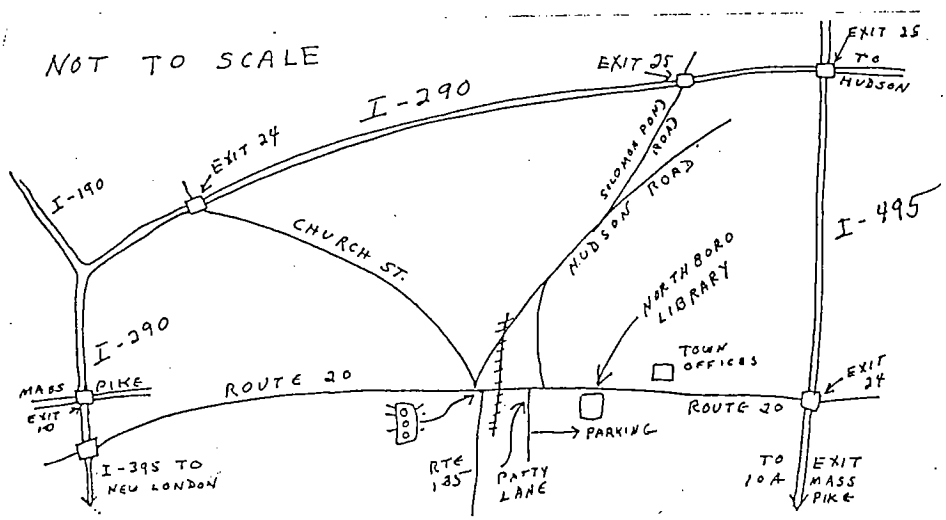
FROM THE EDITOR

From Bill Henderson regarding his article in the last *Newsletter*: "I forgot to mention that the best thing on which to run the (carbonate) test is a black micro box."

Your membership list is enclosed. Please notify me by mail of any errors, additions etc.

DIRECTIONS TO THE NORTHBORO PUBLIC LIBRARY

Follow map to Patty Lane off Rte. 20 between library and RR tracks. Turn onto Patty Lane, then left to Library parking lot. Enter meeting room through rear door at parking lot level.



Why I support the Harvard University Mineralogical Museum
(A personal viewpoint, by Gene T. Bearss)

I guess there are other great mineral collections available for general public viewing in New England, but I don't know where. I believe Yale has a great collection, but in my case that is too far away. Some institutions may have a good collection; they did at one time, but are they available to the general public? Dartmouth had a good collection, but do they still have it? Boston University had a good collection, but it is not on public display. Can you name one institution in Vermont, New Hampshire, or Maine that has a great regional collection that is open to the public? I know I can't.

If someone writes a book or in-depth article on New England or Franklin/Ogdensburg, New Jersey, note how often the Harvard collection is cited. If you want to see a good collection of minerals from those localities, all you have to do is go to Harvard. If you want to view the best systematic collection in this country, all you have to do is go to Harvard. You can go view those collections seven days a week every week with the exception of some holidays. The great thing about all this is the museum has been open to the general public for years, and years, and years. However, the best news is the viewing of that collection has been getting easier and better for years. I can remember after my first visit to the museum in 1970 or '71 I decided the next time I came I would bring along a Tensor light and plug it into outlets at various places around the museum in order to be able to see everything. I did just that the next time I came only to find out that the outlets had no power in them. If you have been to the museum lately, you know that better lighting is just one of the improvements.

Of course, improvement involve both time and money. Thus one way I help support the museum is by being a member of the Harvard Museum of Cultural and Natural History. This membership starts at $35 per year and includes free visits to the museum during normal viewing hours plus some other perks. Of course there are more expensive memberships which in some cases have greater perks. Another way you or I can help the museum is by donating specimens to the museum. If you are a field collector and have display quality specimens from New England, Mont Saint-Hilaire, or other world wide locales they might be welcome. If you collect a specific location and find something unusual, new to the locallity, or mineralogical.ly interesting, i.e. "ugly as sin," the museum might be interested in it. Such common things as micas and feldspars are sometimes needed for research. Micromounts that would fill gaps in the museum's micromount collection (if you collect a specific location ask the Cares what the collection might need from that locale) would probably be welcome. What you donate is and has to be dictated by what you have and more important by what the museum can use! This latter point is as important as the next one I am going to make. If you decide to donate something to the museum in the way of specimens do not attach any strings! I have donated quite a few specimens to the museum and I think, one, maybe two, is/are on display in the New England room. Some things I have donated are in the micromount collection, some are in drawers in the locality collections, and some are no longer at the museum, having been sent off to other instutions for research. In this latter case I hope those specimens might have aided the scientific community in some small way. Remember, no strings! Of course, if you wish to donate a $50,000 Sweet Home Mine Rhodochrosite feel free to attach strings. The staff still might not accept the specimen, depending on the strings.

What do I get and what can you get by supporting the Harvard Mineralogical Museum? The knowledge that in some small way we might be helping the scientific community while at the same time helping ourselves. Helping ourselves by helping to keep the museum with the best New England collection available for public viewing stay open. Helping ourselves by helping to keep the museum with a great Franklin/Ogdensburg collection available for the public viewing stay open. Okay, so most of you are not interested in Franklin/Ogdensburg. Well I am, and there are a lot of things that are at the museum that I haven't mentioned that I am not interested in, but you might be. Will the museum close if we don't give it our support? No, but it might not continue to improve at the rate that it has been improving. I think that would be a shame!

UPCOMING MEETINGS AND SHOWS FOR 1997

April 4, 5, 6: College Park, MD. 25th Annual Atlantic Micromounters Conference sponsored by the Micromounters of the National Capital Area. University of Maryland,. ***Note previour error in date!***
April 10-13: Rochester, NY. 24th Annual Mineral Symposium.
April 26-27: Nashua, NH. Shower of Gems and Minerals sponsored by the Nashua Mineral Society. Rte. 3, Exit 4.
May 2-4. Brampton, Ontario. Annual CMMA workshop/conference. Central Peel Secondary School. Kennedy Road N., Brampton.

MORE FROM YOUR EDITOR AND OTHER MISCELLANEOUS GIBBERISH

This entire issue is an exercise in how not to publish a newsletter. It is a compilation of what should have been two separate issues. The material/information which I need to pass on keeps dribbling in, so I just keep adding pages. Here are some bits which are out of order or which should have been part of other items which appear in other areas of the Newsletter.

Re: Gene Bearss letter and the Harvard Museum - for those of you who might be interested in joining or getting further information, the mailing address: Harvard Museum of Cultural and Natural History, Harvard University, 22 Oxford Street, Cambridge, MA 02138. Museum hours are 9AM to 4PM.

Re: new members - The following micromounters have become new MMNE members since the last list was published:)They are included on the enclosed membership list.)

Thomas Minnich, PO Box 419, West Swanzey, NH 03469
David Redfield, 30 Clapp Pond Road, PO Box 627, Marlborough, NH 03455
Carl Schroeder, 17R Endicott Avenue, Somerville, MA 02144
Richard Stenberg, 185 Redlands Street, Springfield, MA 01104

Re: upcoming events - The 8th Annual Maine Mineralogical Symposium will be held on May 2, 3 & 4 at the Senator Inn, Augusta, ME. For further information contact Robert Hinkley, 70 Yarmouth Road, Gray, ME 04039. (207) 657-3732.

On the back of this page is a copy of an order form from the Boston Mineral Club vis Jim Cahoon (MMNE member). This was discussed at the last MMNE meeting. The club is bulk ordering these boxes and offering the MMNE membership the opportunity to share ion the savings. Neither the BMC nor the MMNE is making money on this purchase. I am assuming that these come with covers, although it would be wise to check with Jim if there is a question. The BMC is also considering the bulk ordering of Perky boxes, so again contact Jim if you have any questions.

IMPORTANT! IMPORTANT! IMPORTANT!

We desperately need material for the sales table and for give-aways at the Annual Meeting. Steve Cares no longer has a unlimited supply of extra material to put out. All of us have some quality material which would be good for either sales or the give-away. Please label all material accurately. Price the sales material clearly, and make the price one at which you would like to purchase the material. Specimen material, books, supplies, etc. are all fair game. Try to bring the material to the April meeting so that there is time to sort it out ahead of time.

Also, regarding the May meeting - Over the past few years we have gotten away from using the meeting as a time to trade specimens. A number of collectors have mentioned to me that they would like to trade, but that no one is bringing trading material. We should have a big turnout, so bring good trading material as well as well as give-aways. See you there!

NAME		
ST.		
CITY	STATE	ZIP
PHONE		

The BMC has arranged to buy white, cotton lined cardboard boxes. Each carton contains 100 boxes and you must order by the carton. there might be a slight sur-charge for shipping form the manufacturer to Cambridge. We will **try** to provide transportatiuon of the boxes to you.

MAKE CHECKS PAYABLE TO THE BMC

style	size in inches	carton price	#of cartons	cost
J-1	**2 1/2 x 1 7/8 x 7/8**	**$ 15.50**		
J-2	**3 x 2 1/4 x 1**	**16.00**		
J-3D	**3 5/8 x 2 5/8 x 1 1/4**	**20.00**		
J-4D	**3 1/2 x 3 1/2 x 2**	**25.00**		
J-5D	**4 7/8 x 3 3/4 x 1 3/4**	**27.50**		
		total # of cartons		
		total $ enclosed		

fill out this form and return it to;

JIM CAHOON, 711 CONCORD AVE., CAMBRIDGE, MA 02138

ALL ORDERS MUST BE RECIEVED BY MAY 7TH, 1997

Mont Saint-Hilaire '96

There is sometimes a feeling that, as the quarry at Mt. St-Hilaire goes deeper, the collecting becomes less favorable. Crystallized minerals are found, but the quantities and varieties have been lacking. Perhaps this feeling is also related to the length of time and number of trips the collector has made to this site! There is always something desirable, if one is lucky enough to find it. Reports such as this give a very brief picture because more is unknown to the writer than is known.

Peter Tarassoff reported in early December,and in January, that the last two blasts in November were in the area of the 1973 serandite find, and several pockets were exposed, one really large one--one of the largest pockets in recent years," perhaps 20-25' wide by 3' high. "It contained a lot of serandite most of which was shattered as a result of having been penetrated by a drill hole charged with explosive." One very large spray of bladed serandites was collected. He heard that some nice things came out but nothing like the 1973 find. "One small pocket yielded very nice polylithionite, and another, sprays of long prismatic rhabdophane (up to 2 in. (?)). The contents of another large serandite pocket ended up completely scattered through the muck pile, and the serandite was in bits and pieces. Thin, tabular catapleiite crystals up to 2" were collected in the summer in a pegmatite pipe on a rather dull matrix of aegirine and microcline heavily encrusted with natrolite/-tetranatrolite. These pockets were all in the general vicinity of the large biotite-rich xenolith containing petarasite which had been exposed on the back bench for many years." (Petarasite was named for Peter.) There was a report that an English visitor found charmarite. Charmarite occurred with the serandite find in 1973, or at least with the pink rhodochrosite found at that time.

It is always possible to collect 30-40 species on a visit. The eudialyte is just as likely to be broken in a chunk of rock, and perhaps ugly in color, suitable only for someone who doesn't have the species and is willing to settle for something. Or, it may occur in fine crystals with lovely color. Obviously, the collectors are seeking the species not so readily available and those in good crystals. There were some very attractive natrolites during 1996, as well as andradite, ancylite-(Ce), brookite, dawsonite, dolomite, genthelvite, hilairite, polylithionite, pyrophanite, serandite, synchysite-(Ce), and zircon, to name a very few. Kelly Yellin found some exceptionally fine donnayite crystals.

During the June visit, Quintin Wight found grossular and wöhlerite. A few others added that trip were leucosphenite, monteregianite, phlogopite, taeniolite and vesuvianite.

July 27 proved interesting when several collectors found what appeared to be petersenite-(Ce) with a coating of calcio-burbankite. The crystals are hexagonal, glassy, colorless to pinkish with a white or cream waxy coating. Mike Swanson (Mass.) and Bill Henderson hit the jackpot. not only for the new minerals but because of the richness of associations on their specimens: white garronite in pseudo-octahedrons, fluorescent translucent spheres of gaidonnayite, almost clear siderite, aegirine and black spheres (a smectite or chlorite??). Mike had micro crystals of a white to pinkish flat, rectangular mineral in aggregates resembling open pages more than a rosette. Mike knew it to contain REE and had it analyzed. The suggested ID proved to be erroneous. Bill Henderson did the optics for the mineral and came up with a new one for Mt. St-Hilaire: lanthanite-(Ce). Desiring confirmation, he sent a sample to Andy McDonald at Laurentian University, Sudbury, Ont. Andy's answer, just received, agreed with Bill's findings. So, add it to the list. Gypsum and elpidite were available, too.

Incidentally, the 1995 report listed uraninite for Mt. St-Hilaire. Remove it from the list. Further study of the specimen proved the matrix to be pegmatite unlike the MSH pegmatites.

September, much of the previous material was still available. An area along the north wall on the third bench up, had proved interesting to collectors on previous trips. Some very attractive lorenzenite (ID by Bill H.), both pinkish-tan and silvery white, was found with hollow orange shells (rhodochrosite ?), micaceous tan catapleiite, fluorite, albite and aegirine. In October, catapleiite in small crystals and colorful apatites were found on

various boulders in the same area. Harmotome, nenadkevichite and titanite were added to the summer's list.

New to the light of day was a vuggy hornfels in the south corner of the lowest level. Yellow hexagonal, micaceous xls and white to pink fibers and pink hexagonal xls were associated with dark brown and gray hexagonal micaceous xls resembling the bastnäsite identified in similar hornfels in Oct. 1994, rutile, mottled pink to brick red ferroan dolomite and some quartz. The mottled ferroan dolomite resembles material given this identification by George Chao several years ago. Bill's study of this material found it to be "dolomite with perhaps 80-90% surety." The white to pink fibers were intergrown. The thicker pink crystals looked like apatite; this mineral has also been found as fibers. Bill has concluded that the optics and a phosphate test for both habits fit fluorapatite. At first glance, the yellow xls looked as though they might be gmelinite. Mike, using a spectroscope, found REE. Its reaction to HCl proved it to be a carbonate. Excalibur Minerals using EDS on Mike's sample found C, Ca, F and REE with Ce predominant. Most fragments were badly altered for Bill's optics work but one small Weber specimen was in better condition. He concluded that the unknown is almost certainly synchisite-(Ce).

October 12, there was gray to greenish hornfels which contained brookite, anatase, dolomite both colorless and greenish in numerous twins, black spheres which, when broken have what appears to be pyrite with the black, tan siderite with very steep terminations on hexagonal prisms, and sparse eudidymite, looking like that found in May 1994; white pearly, micaceous aggregates with very steep, oblique terminations, some frosted with a brown mineral. Often these are embedded in the matrix and show up only when broken across. A few specimens have been found with the xls free-growing in vugs. Quintin Wight has reported that the green color of the dolomite is due to vanadium. Some carletonite was being found near the hornfels pile. Because the lowest level was being cleaned up, it was not possible to collect there until the last half hour. Bob Rothenburg and Robin Tibbett found more of the hornfels collected in September.
While the work goes on to try to find out what

was collected in 1996, collectors are looking forward to 1997.

Marcelle Weber

CMMA MICRONEWS V.31. MAR 97

MONT ST HILAIRE NEWS

97-3 Lanthanite -(Ce), $(Ce,La,Nd)_2(CO_3)_3\ 8H_2O$ was collected by Bill Henderson and Mike Swanson in August '96. It is another species to add to the MSH list. The material occurs as sugary white, opaque plates, that are roughly orthorhombic, but appear pseudo-hexagonal. The plates are stacked and occur as partial rosettes. They are found in the interstices between **aegerine** crystals. Associated minerals include abundant **siderite** in sharp, translucent rhombs and **albite.** The mineral was also found in association with **petersenite-Ce, calcioburbankite** and roughly octahedral crystals composed dominantly of **garronite** (see 97-1), but possibly with other zeolite phases as well. The mineral was identified on the basis of optical, EDS and powder XRD methods by Henderson and Andy McDonald.

97-4 Kukharenkoite-(Ce), $Ba_2Ce(CO_3)_3F$, is a new mineral from the Khibina massif Kola Peninsula, Russia, and from MSH and the Varennes Quarry, Saint-Amable sill, Quebec, Canada. It was previously designated as **UK 65** from MSH. The reference for the description is: Gault, Robert A; Subbotin, Victor V; Pakhomosky, Yakov A; and Bogdanova,Alla N; European Journal of Mineralogy,1996,**8**, 1327-1336.
At MSH kukharenkoite-(Ce) occurs as small (0.1mm), white to silvery grey, vitreous to dull, prismatic crystals, often in dendritic or stellate groups (2-3mm across). It is effervescent in HCl. The mineral is monoclinic, $P2_1/m$ with a 13.396(7), b 5.067(1), c 6.701(1) and β 106.58°. The associated minerals are **calcite, siderite, albite, quartz, pyrrhotite, pyrite, rutile, cordylite** and others in veins of **hornfels.**

Reederite-(Y) On the list of MSH confirmed species published last month, Reederite was listed without the (Y) suffix. Please correct your list accordingly.

(Thanks to Malcom Back for this up-date on MSH)

MONT SAINT-HILAIRE NEWS

Malcolm Back

With retirements, lab moves and closures taking place in Canadian Mineralogy departments, concern has been expressed regarding the continuation of work on Mont Saint-Hilaire (MSH) minerals and the dissemination of information to the collecting community. First, we want to assure the reader that work is continuing on this important locality, at the Royal Ontario Museum, Toronto, the Canadian Museum of Nature, Ottawa and at Laurentian University, Sudbury, Ontario, amongst others. Second, we are proposing, after discussions with many professionals and collectors, to use the CMMA newsletter for the dissemination of MSH information. This is one of the most widely distributed newsletters for those interested in MSH, and because it is sent to a number of other clubs, the news will spread to an even wider readership.

We are therefore asking anyone, be they amateur or professional, with information about new finds, new species, identifications etc. from MSH, to forward the information to Malcolm Back or Bob Ramik at the Royal Ontario Museum, Earth Science Department, 100 Queens Park, Toronto, ON, M5S 2C6. Our E-mail address is malcolmb@rom.on.ca or bobr@rom.on.ca . You can also pass information to Tony Steede or Cynthia Peat.
Andy McDonald, now one of the chief researchers on MSH minerals has inherited many of George Chao's files, and has agreed to gather and disseminate information from his outpost at Laurentian University in Sudbury. His address is Department of Earth Sciences, Laurentian University, Sudbury, ON, P3E 2C6 or by E-mail to amcdonal@nickel.laurentian.ca . Once the move to the new facilities of the Canadian Museum of Nature is completed, Bob Gault has agreed to be the contact person in the Ottawa region. When he is ready we will advise you.
We will compile and edit the data and Malcolm Back and Bob Ramik will prepare the final articles for inclusion in the newsletter.

This brings up the inevitable question about where to get the identifications done. We are still willing to do them at the ROM but with down-sizing and preparations for the new Earth Science Gallery, our time is somewhat limited. Andy McDonald is also willing to do identifications within his time constraints. If you are unable to identify a specimen after consulting other MSH collectors, you may send us your treasure, subject to the following guidelines:

. make sure there is enough material so that the entire sample is not used up in the i.d. process;
. clearly indicate with arrows what it is we are supposed to identify;
. matrix specimens are preferred so that associations and matrix can be observed;
. limit samples to a maximum of three per submission.

If you are submitting information for publication in the newsletter please include information such as species name, asociated minerals, rock type or environment, collection date, means of identification and who was responsible for the i.d.
We reserve the right to distribute the information gathered. For ease of reference we will assign a number to each published item (as below). The item on Garronite is a good example of the information you should send.

97-1 Garronite August 1996 - Cynthia Peat.

Garronite was collected from an isolated boulder in the NE corner of the quarry in August 1996. The host material was white sodalite that fluoresces pink in UV, and in small interstices in aegerine and annite. The crystals are small (1mm), crude pseudotetragonal dipyramids showing a characteristic conchoidal parting or fracturing. The associated minerals are **aegerine, annite, siderite, gaidonnayite** and an as yet unidentified colourless prismatic mineral (possibly hexagonal crystals). The identification of garronite was done my Malcolm Back at the ROM using X-ray diffraction (XRD) and visual observations.

97-2 Beryllonite July 1989 - Cynthia Peat

Cynthia reports that she has found beryllonite on material collected in July 1989. The associated minerals are **löllingite** and **dawsonite.** It has the same morphology (very thin white plates) as the beryllonite reported in the Micronews , vol 30, no. 7, Sept 1996 from the dawsonite zone. The identifcation was done by Cynthia Peat by visual comparison with a confirmed specimen from the 1994 find. (Note: **calcite** can also look like this, so be sure to check with Hydrochloric acid).

Ed note: This is an excellent opportunity for members to keep abreast of MSH developments and we hope you will take advantage of the generous offer of our Museum community to share news of your latest finds and other information about MSH.

New minerals from Mont Saint-Hilaire

Tony Steede

Some unusual minerals from Mont Saint-Hilaire were found by Tony Steede in May, 1995 and analysed by Malcolm Back of the Royal Ontario Museum as having a structure similar to sidorenkite, a mineral found at Mont Saint-Hilaire in the sodalite zenolith environment. Micro-probe analysis further identified the specimens as being zoned and consisting of two new minerals to Mont Saint-Hilaire; **bonshtedtite** and **bradleyite**.

Malcolm provided descriptions of the new minerals in the June, 1996 issue of the Walker Mineralogical Club newsletter. The following comments expand upon Malcolm's notes.

As described by Malcolm, the crystals are equant, colourless, lightly striated, and have a high, vitreous lustre. Bonshtedtite has the formula $Na_3Fe^{2+}PO_4(CO_3)$, while bradleyite is $Na_3Mg(PO_4)(CO_3)$.

The minerals were found in a large boulder of nephelene syenite which had numerous vugs. Some of these vugs were quite large (10 cm). There was a very large number of minerals associated with these vugs and even the tiny vugs often contained interesting minerals. Most of the smaller vugs were lined with the usual analcime of the mariolitic cavities common to Mont Saint-Hilaire.

The most obvious minerals in the larger vugs were **lorenzenite** (one large vug was filled with lorenzenite crystals) and **ilmenite.** One ilmenite cluster measures 1.5 cm. Both **labuntsovite** and **burbankite** were reasonably abundant.

The bonshtedtite/bradleyite crystals were found in a vug almost filled with natrolite crystals. Most of the natrolite crystals spanned the vug so there were few terminations. In spaces between the prisms there were very thin lorenzenite needles. The bonshtedtite/bradleyite crystals were found where the natrolite crystals joined the wall of the vug, on one end only. A few were found in the natrolite very close to the wall. There do not appear to be any other minerals specifically associated with the bonshtedtite/bradleyite but minerals in the immediate vicinity are ilmenite, burbankite, and lorenzenite. All three of these are found in the natrolite near the cavity wall. Unlike the flat plates of most ilmenite found at Mont Saint-Hilaire, including the ones from other vugs in the same boulder, the ilmenite associated with the bonshtedtite/bradleyite appears to be prismatic.

Some of the bonshtedtite/bradleyite appears to be in casts left in the natrolite. The casts are vaguely the same shape as the bonshtedtite/bradleyite crystals. There is also a rusty coating on many of the crystals with little apparent source for the rust. The only obvious iron sulphide material remaining is minor pyrrhotite, none of which is particularly close to the bonshtedtite/bradleyite. Also, the odd bonshtedtite/bradleyite crystal shows no such iron oxide coating yet still shows some space around its location in the natrolite.

Also in the vug was a fair amount of carbonate material, assumed to be calcite but opaque and soft, as though altered by heat to look like plaster of paris. There was no bonshtedtite/bradleyite associated directly with this material.

To add to Malcolm's description, the crystals of bonshtedtite/bradleyite look like simple rectangular blocks with additional faces between the primary faces, giving all edges a bevelled look. They are relatively large (for Mont Saint-Hilaire) being approximately 1-2 mm. and they have at least one perfect cleavage.

While not found in the vug containing the bonshtedtite/bradleyite, other vugs in the source boulder contained a huge variety of minerals, one of the more unusual being blocky crystals of **wohlerite**. These are orange-yellow; slightly more orange than barite (for which they can easily be mistaken, given that they are found in the same environment). The colour is also similar to some of the titanite from Mont Saint-Hilaire. While the yellowish titanite is often in the nephelene syenite in close proximity to the mariolitic cavities, the wohlerite crystals are in the cavities but often over-grown by later forming minerals. When observed, the terminations consist of many faces, hence the possible confusion with barite.

(Thanks Tony for sharing this MSH new find with us - Ed.)

Mont Saint-Hilaire Confirmed Species, January 28, 1997
This list was edited by Malcolm Back, Bob Gault and Bob Ramik
(* denotes TYPE locality)

Abenakiite-(Ce)* (UK85)
Acanthite
Actinolite
Aegirine
Alabandite
Albite (+ Parisite = UK26)
Allanite-(Ce)
Analcime
Anatase
Ancylite-(Ce) (UK3 & 10)
Andesine
Andradite
Anglesite
Ankerite
Annite
Anorthoclase
Antimony
Aragonite
Arfvedsonite
Arsenopyrite
Ashcroftine-(Y)
Astrophyllite (+ Natrolite = UK71)
Augite
Barite
Barylite
Barytolamprophyllite
Bastnäsite-(Ce)
Bavenite
Behoite
Berthierine
Beryl
Beryllonite
Beudantite
Biotite
Birnessite
Bismuth
Bonshtedtite
Bradleyite
Britholite-(Ce) (UK22)
Brochantite
Brockite
Brookite
Burbankite
Calcio-ancylite-(Ce)
Calcioburbankite* (UK100a)
Calcite
Cancrinite
Carbonate-fluorapatite
Carbocernaite (UK40)
"Caresite-3T"* (UK58 GP) - note: the formal description has not been published
Carletonite* (UK15)
Catapleiite
Celestine
Cerite-(Ce)
Cerussite
Chabazite (+ ? = UK35)
(+ Natrolite = UK47)
Chalcopyrite
Chamosite
"Charmarite"* (2H & 3T) (UK58 GP) note: the formal description has not been published
Chkalovite
Chlormagaluminite
Clinochlore
Cordierite
Cordylite-(Ce) (UK12)
Corundum
Cryolite
Daqingshanite-(Ce) (UK44)
Datolite
Dawsonite
Digenite
Diopside
Djurleite
Dolomite
Donnayite-(Y)* (UK33)
Dorfmanite
Doyleite* (UK45)
Dravite
Edenitic-Hornblende
Edingtonite
Elpidite
Enstatite
Epididymite (UK14)
Epidote
Epistolite (UK46 previously listed as Murmanite)
Erdite
Erythrite
Eudialyte
Eudidymite
Ewaldite (UK37)
Fluorapatite
Fluorapophyllite (UK11 gp.)
Fluorbritholite-(Ce) see Min. Rec. V27,No.6, 463, 1996.
Fluorite
Franconite (UK43)
Gaidonnayite* (UK23)
Galena
Ganophyllite
Garronite
Gaultite* (UK84)
Genthelvite
Gersdorffite
Gibbsite
Gismondine
Gmelinite
Gobbinsite
Goethite
Gotzenite (+ ? = UK24)
Graphite
Greigite
Griceite* (UK54)
Grossular
Gypsum
Halite
Halotrichite
Harmotome
Hedenbergite
Helvite
Hematite
Hemimorphite
Herschelite
Hessite
Hilairite* (UK20)
Hiortdahlite
Hisingerite
Hochelagaite* (UK50)
Hornblende
Hydroandradite
Hydrocerussite
Hydrogrossular
Hydroxyapophyllite(UK11gp.)
Hydrozincite
Hypersthene
Ilmenite
Ilmenorutile
Jarosite
Joaquinite-(Ce)
Kaersutite
Kainosite-(Y)
Kaolinite
Kellyite
Kogarkoite
Kupletskite
Kutnohorite
Labuntsovite (UK5)
Lamprophyllite
Lanthanite-(Ce) per Andy McDonald
Langite
Låvenite
Lead
Leifite
Lemoynite* (UK13)
Lepidocrocite
Leucophanite
Leucosphenite (UK8)
Lintisite (UK74)
Lizardite
Löllingite
Loparite-(Ce)
Lorenzenite (UK1, 7, 16)
Lovozerite Grp
Lueshite
Magadiite
Magnesio-arfvedsonite
Magnesiohornblende
Magnesite
Magnetite
Makatite (UK66)
Mangan-neptunite
Manganotychite
Marcasite
Mckelveyite-(Y) (UK30)
Meionite
Melanterite
Microcline
Milarite
Millerite
Mimetite
Miserite (UK36)
Molybdenite (2H & 3R)
Monazite-(Ce)
Monteregianite-(Y)* (UK6)
Montmorillonite
Mosandrite
Muscovite
Nahpoite
Nalipoite* (UK63)
Narsarsukite (UK2)
Natrite
Natrolite (+ Chabazite = UK47)
(+ Astrophyllite = UK71)
Natron

Natrophosphate
Natrosilite
Neighborite
Nenadkevitchite (UK19)
Neotocite
Nepheline
Neptunite
Nickeline
Nontronite (UK29)
Nordite-(Ce)
Nordstrandite
Normandite* (UK59) - note: formal description has not been published
Oligoclase
Parakeldyshite
Paranatrolite*
Paraumbite
Parisite-(Ce) (18T & 72T) (+ albite = UK26)
Pectolite
Penkvilksite (UK41)
Perraultite* (UK17)
Petarasite* (UK42)
Petersenite-(Ce)* (UK100)
Phillipsite
Phlogopite
Phosinaite-(Ce) (UK64)
Pirssonite
Polylithionite
Posnjakite
Poudretteite*
Prehnite
Pyrite
Pyrochlore
Pyrophanite (+ Rutile = UK9)
Pyrrhotite
Quartz
"Quintinite-3T"* - note: formal description has not been published
Raite
Rasvumite
Reederite (UK102)
Remondite- (Ce)
Revdite
Rhabdophane-(Ce) (UK34)
Rhodochrosite
Richterite
Riebeckite
Rosenbuschite
Rouvilleite* (UK62)
Rozenite
Rutile (+ Pyrophanite = UK9)
Sabinaite
Sanidine
Saponite
Sazhinite-(Ce)
Sazykinaite-(Y) (UK88)
Schairerite
Scheelite
Searlesite
Senaite
Sepiolite
Serandite
Shigaite (UK 76)
Shomiokite-(Y)
Shortite
Siderite
Siderophyllite
Sidorenkite
Silinaite* (UK 81)
Sodalite
Spertiniite
Spessartine
Sphalerite
Steacyite* (UK4)
Steenstrupine-(Ce)
Stillwellite-(Ce)
Strontianite
Struvite
Sugilite
Sulfur
Synchysite-(Ce) (12T & 24T)
Szomolnokite
Tadzhikite-(Ce) (UK39)
Taeniolite
Tennantite
Terskite (+ Zakharovite(UK38) = UK49)
Tetrahedrite
Tetranatrolite
Thalcusite
Thaumasite
Thenardite
Thermonatrite
Thomsonite
Thorite
Thornasite* (UK27)
Thorogummite
Titanite
Tremolite
Trona
Tugtupite
Tundrite-(Ce) (UK18)
Tuperssuatsiaite
Ussingite
Vaterite
Vesuvianite (UK21)
Villiaumite
Vinogradovite (UK28)
Vitusite-(Ce)
Vuonnemite
Wadeite
Wagnerite
Weloganite
Willemite
Wöhlerite
Wollastonite
Wulfenite
Wurtzite (2H, 4H & 8H)
Xenotime-(Y)
Yofortierite* (UK25 & UK31)
Zakharovite (UK38) (+ Terskite = UK49)
Zeophyllite
Zircon

UK32
UK33A
UK37A
UK48 & UK48A
UK51
UK52
UK53 ,UK53A & UK53B
UK55 grp.
UK56
UK57 nearing completion
UK60 & UK60A
UK61 nearing completion
UK65 in press
UK67
UK68
UK69
UK70
UK72
UK73 grp.
UK75 nearing completion
UK77 grp.
UK78
UK79
UK80
UK82 & UK82A
UK83
UK86
UK87
UK89
UK90 nearing completion
UK91
UK92
UK93
UK94
UK95
UK96
UK97
UK98
UK99
UK101
UK103 nearing completion
UK104 nearing completion

NOTES:

This list was compliled from various sources including the following, whom we gratefully acknowledge:

Mineralogical Record, Vol. 21, No. 4, 1990
Rocks & Minerals, Vol. 70, No. 2, 1995. Mont Saint-Hilaire Revisited, Part 2.
Mr. Les Horvath
Mr. Tony Steede

The most recent additions to the list are in **bold** type.

Please forward any additions, deletions or corrections to the editors of this list.

First Name	Last Name	Address	City	State	Postal Code	Home Phone
George	Anderson	62 Diane Drive	Vernon	CT	06060-6237	(203) 646-4475
John	Anderson	17 Ginley Road	Walpole	MA	02081	(508) 668-2008
Patricia	Barker	PO Box 810	Campton	NH	03223	(603) 536-2401
Robert	Barker	PO Box 810	Campton	NH	03223	(603) 536-2401
Gene	Bearss	33 North Avenue	Sanford	ME	04073-2943	(207) 324-3610
Phil	Betancourt	410 Chester Avenue	Moorestown	NJ	08057	
Norman	Biggart	4 Baron Park Lane, Apt. 1	Burlington	MA	01803-5431	(617) 272-1537
Robert	Brackley	2099 Sanford Road	Wells	ME	04090	(207) 646-7374
Russell	Buckingham	1859 Baldwin Road	Yorktown Heights	NY	10598	(914) 962-3216
John S.	Buckley	95 Green Street	Wakefield	MA	01880	(617) 245-8365
Jim	Cahoon	31 Parker Street	Maynard	MA	01754	
Steve & Janet	Cares	18 Singletary Lane	Sudbury	MA	01776-2402	(508) 443-9180
Ralph & Violet	Carr	25 Farnum Road	Warwick	RI	02888-3911	(401) 467-3823
Richard	Champlain	15 Burr Road	Old Lyme	CT	06371	(203) 434-5092
James	Clark	18 Central Street	Topsfield	MA	01983-1802	(508) 887-5881
Jeremy	Cook	319 North Main Street	Middleton	MA	01949	(508) 739-4043
Chris	Coolen	56 Wyman Street, Apt. #2	Boston	MA	02130	(617) 522-9479
Marilyn	Dodge	72 Woodbury Street	Providence	RI	02906-3510	(401) 751-5217
Harold	Doller	22 E. Shore Drive	Massapequa	NY	11758	(516) 799-6309
John C.	Ebner, Jr.	PO Drawer J	Manasquan	NJ	08736-0640	(908) 681-3451
Alfred	Elvin	2 Cambridge Circle	New Milford	CT	06776	(860) 798-5531
Herbert	Fielding	48 Butters Row	Wilmington	MA	01887-3341	(508) 657-7463
Forrest & Vera	Fogg	1040 Gorham Pond Road	Dunbarton	NH	03045-4508	(603) 774-6450
James	Grandy	524 Brooksvale Avenue	Hamden	CT	06518-1232	(203) 227-2669
William A.	Henderson	47 Robin Ridge Drive	Madison	CT	06443	(203) 245-0489
Harold	Herard	2 Betty Street	Auburn	MA	01501	(508) 755-5947
Les & Marge	Hitchings	10 Church Street	Saugus	MA	01906-2474	(617) 233-4968
Ken	Hollman	PO Box 134	Center Rutland	VT	05736-0134	(802) 747-1443
Muriel	Hopkins	370 High Street	Somersworth	NH	03878-1408	(603) 692-2256
Bob	Janules	17 Woodward Road	Merrimack	NH	03054	(603) 424-9269
Inga Burggraf & Dan	Jewell	100 Lynn Fells Parkway	Melrose	MA	02176	(617) 665-2756
William	Kelly	4 Lawndale Road	Stoneham	MA	02180	(617) 245-2014
Michael W.	Kieron	38 Merritt Road	E. Providence	RI	02915-3805	(401) 434-0281
Walter & Carolyn	Lane	RD 1, Box 245B Gore Road	Alfred	ME	04002	(207) 324-5934
Frank & Phyllis	Leighton	10 Templeton Road	Phillipston	MA	01331-9704	(508) 249-4261
Edna	Lerer	68 Pompositticut Road	Stow	MA	01775-1107	(508) 897-2630
Eugene	Mechler	RD #1, Box 1132	Bridgton	ME	04009-9758	(207) 647-2640
Eugene	Mechler	640 Orange Blossom Lane	Deland	FL	32724-7533	
Thomas	Minnich	PO Box 419	West Swanzey	NH	03469	(603) 357-3688
Shelley & Bob	Monaghan	12 Conant Drive	Brockton	MA	02401-4518	(508) 586-3541
Dana	Morong	117 Piscataqua Bridge Road	Madbury	NH	03820-6805	(603) 742-0270
Frances & George	Morrison	182 Pine Street	Pawtucket	RI	02860-3918	(401) 726-2931
James	Parella	32 Pattison Street	Worcester	MA	01604	(508) 756-6619
John	Pawloski	42 Squash Hollow Road	New Milford	CT	06776	(860) 354-0296
Richard	Pershken	150 Surrey Drive	Bristol	CT	06010-7261	(203) 583-3909
Meredith & Armand	Porro	55 Bulfinch Street	Lynn	MA	01904-3107	(617) 592-1481
Doug	Rambo	17 North Avon Drive	Claymont	DE	19703	(302) 798-4163
George	Rambo	17 North Avon Drive	Clayton	DE	19703	(302) 798-4263
Emile	Rappa	15 Spring Street	Chicopee	MA	01013-2610	(413) 594-4847
David	Redfield	30 Clapp Pond Road, PO Box 627	Marlborough	NH	03455	(603) 876-4034
Violet	Robinson	15 Walnut Avenue	E. Rochester	NH	03868-8427	(603) 332-0519
Robert	Rothenberg	9 Watkins Avenue	Oneonta	NY	13820	(607) 432-6814
Marjorie	Saums	24 Joseph Street	Manchester	CT	06040	(203) 649-5443

First Name	Last Name	Address	City	State	Postal Code	Home Phone
Palmer and Betty	Sevrens	PO Box 397	Plymouth	NH	03264	(603) 536-2050
Elaine	Sole	188-02 89th Avenue	Hollis	NY	11423-1906	(718) 776-3823
Richard E.	Spellman	108 Oakland Street	Manchester	CT	06040	
Richard	Stenberg	185 Redlands Street	Springfield	MA	01104	
Margaret & John	Stewart	244 Mill Street	Burlington	MA	01803-1838	(617) 272-0854
Michael	Swanson	29 Chestnut Hill	Greenfield	MA	01301-3003	(413) 773-3867
Johannes	Swarts	PO Box 246	E. Randolph	VT	05041	(802) 728-3336
Bettee	Taparowsky	404 Westford Drive	Southport	CT	06490-1479	(203) 254-2508
Jim	Warner	23 June Street	Auburn	MA	01501	(508) 752-8328
Marcelle & Charles	Weber	1172 West Lake Avenue	Guilford	CT	06437-1342	(203) 457-9810
Robert	Whitmore	Route 2	Weare	NH	03281	(603) 529-2621
Scott	Whittemore	8 Goldfinch Lane	Nashua	NH	03062	(603) 888-1174
Anna & Robert	Wilken	32 Red Cedar Drive	New Milford	CT	06776	0
Kerry	Yellin	112 Old Ridge Road	New Milford	CT	06776	(860) 210-0072

Micromounters of New England
16th Annual Northeast Meeting
Saturday, May 10, 1996
4-H Conference Center
Chestnut Street, Ashland, MA

SCHEDULE:		
	9:00 - 12:00	Registration, informal session
	12:00 - 1:00	Lunch
	1:00 - 2:00	Speaker
	2:00 - 4:00	Informal session

PROGRAM
LÁSZLÓ HORVÁTH will speak on the minerals of the DeMix Quarry, Varennes, Quebec, Canada

Bring your microscopes, lights, extension cords and micromounts (for discussion, sharing or swapping).

Giveaway material will be available (please bring some of your own to share) as well as some choice micromounts for sale. Door prizes will be given away.

Registration fee of $16.00 includes light refreshment, lunch, and a souvenir program.

The following overnight lodgings are available. Make your own reservations as needed:

4-H Center (Ashland, MA) (508) 881-1243 $32 - $60
Second floor, no elevator, air conditioning, phone, or TV
Campers (self-contained only) may park in rear of building. Notify the 4-H Center at the number listed above prior to arrival to guarantee a space. There is a charge of $8.75/vehicle.

Red Roof Inn (Southboro, MA) (800) 843-7663/(508) 481-3904
I-495 & Rte 9. Air conditioning, TV, coffee, no restaurant

Holiday Inn (Marlboro) (800) 465-4329/(508) 481-3000
I-495 & Rte 20. Air conditioning, TV, restaurant

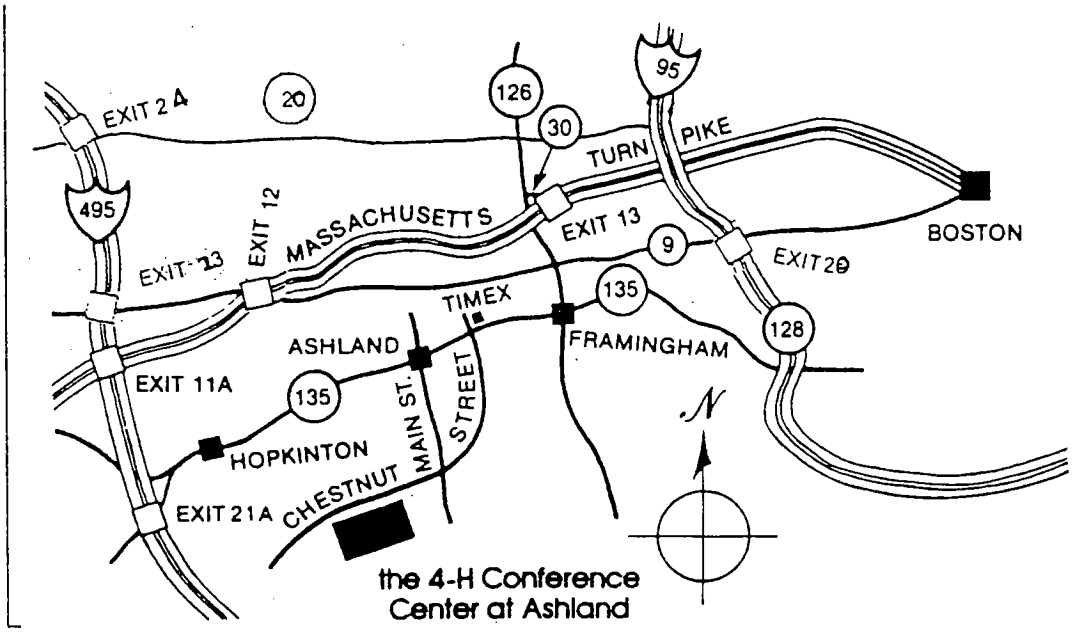
A map is on the back of this page.

MEETING REGISTRATION FORM

REGISTRATION FEE: $16.00
MAKE CHECKS PAYABLE TO: MICROMOUNTERS OF NEW ENGLAND
RETURN TO: MARGARET STEWART
244 Mill Street, Burlington, MA 01803-1838

NAME (S):_____ **@ $16 each = $**_____
ADDRESS: _____
_____

PLEASE RETURN BY APRIL 25, 1997 AS SPACE IS LIMITED
24 NOTICE IS REQUIRED FOR REFUND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