

MICROMOUNTERS OF NEW ENGLAND NEWSLETTER

The MMNE was organized on November 8, 1966 for the purpose of promoting the study of minerals that require a microscope

No. 236

March 2002

OFFICERS 2001-2002

President Jim Cahoon (978) 897-8221 jcahoon@ geochronlabs.com

Vice-President
Jim Warner
(508) 752-8328
buckybaggera@
yahoo.com

Treasurer
Anita Hubley
(203) 644-9600
hubley264@cox.net

Secretary - Recording Chris Hubley chubley@snet.net

Secretary - Corresponding
Patricia Barker
(603) 536-2401
barker@connriver.net

Next Meeting
Saturday, March 23
Westford, MA
Public Library
Doors open at 10_{AM}

Map and directions are on the back page

Dues are \$10/person or \$15/family for the calendar year, payable by Dec. 31 for the new year.

Mail payment to the Membership Chairperson Brian Porter 355 Walsh Ave.,

Newington, CT 06111

MEMBERSHIP NEWS

Your updated membership list is enclosed. Only members who are paid up for fiscal year 2002 are included on the list. Those of you who have received a Newsletter but are not on the membership list are not paid up and will not receive any further Newsletters. Please send any additions, subtractions or corrections to Brian Porter, Membership Chairperson.

An absentee ballot is enclosed for paid up members. The annual business meeting is in April. If you cannot attend the April meeting and wish to cast a ballot, return the ballot to the Corresponding Secretary: Chris Hubley, 95 Naubuc Ave., East Hartford, CT 061 18. Absentee ballots must be signed.

FROM THE EDITOR

Beginning with the next issue I am going to try and run a new column on "Micromounting Tips and Techniques." Ideally this will consist of contributions from members reporting on their tips and techniques - including labeling, mounting, cleaning, testing, etc. They may consist of a couple of lines or a couple of pages. I will be able to add some articles from other newsletters as well, but I do want input from the membership so please write about something that works for you. The first article will be from Bill Henderson on a technique for optimal use of the microscope light.

We do not have a policy for notification of members in the case of meeting cancellation. This should be brought up for discussion.

BY-LAWS COMMITTEE

An ad hoc by-laws committee consisting of Jim Cahoon, Bob Janules, Pat Barker and Mike Swanson has been set up to review and update the by-laws which have not been revised since 1966.

MEETING NEWS

The next meeting will structured around the mineralogy of the Palermo Mine(s) in North Groton, NH. Most of the membership have either collected at Palermo or acquired specimens from there over the years. If members would bring in good specimens for show and tell, unknowns for cooperative attempts at identification, and material either for trade or give-away, it might make for a very interesting session. If anyone has slides, either of the site or the species found there, please contact Pat Barker so that arrangements can be made for a slide projector.

If anyone has a current Palermo species list, it would be nice to be able to distribute it at the meeting.

At the February meeting a Program Committee was established . John Stewart, Norm Biggart and Pat Barker are the committee members. John and Norm will arrange for meeting sites as they have doing. Pat will set up speakers, workshops, thematic programs, and other programs for the monthly meetings. If you have suggestions for formats or wish to give a talk at a monthly meeting, please contact Pat. We all some area of expertise, be it a particular locality, mineral species, micromounting technique, identification technique, or perhaps even a piece of micromounting history. The rest of the membership would like to hear what you have to say!

At the February meeting it was agreed that specimen material could be donated to the club and sold at the monthly meetings with all proceeds going to the club. (Gene Bearss donated some nice material to start the process off!) The possibility of members selling specimens or micromount related items at meetings with a percentage of the proceeds going to the club will be further discussed at the March meeting.

Micromounters of New England Newsletter

The Newsletter is the official publication of the Micromounters of New England (MMNE). The last by-laws revision was 1966. The MMNE is a member of the Eastern Federation of Mineralogical and Lapidary Societies (EFMLS) (cf http://www.amfed.org/efmls) and the American Federation of Mineralogical Societies (AFMS) (http://www.amfed.org). Material from the Newsletter may be copied in other rock and mineral publications if credit is given to the author and the Newsletter unless the author has reserved all rights in which case written permission must be obtained from the author. If there are questions regarding copying contact the editor. The club address is c/o the Corresponding Secretary. Meetings are held monthly, September through May, except for December, and usually on an informal basis in July and August. Sites rotate and will be posted in the Newsletter as far in advance as possible. Visitors are welcome to attend all meetings. Bring a microscope and light source if you have one.

Officers for 2001/2002

President: Jim Cahoon, 31 Parker St., Maynard, MA 01754 Vice President: Jim Warner, 23 June Street, Auburn, MA 01501 Treasurer: Anita Hubley, 90 Valley View Drive, S. Windsor, CT 06074-2829 Recording Secretary: Chris Hubley, 95 Naubuc St., Hartford, CT 06118 Corresponding Secretary: Pat Barker, PO Box 810, Campton, NH 03223-0810

Membership Chairperson: Brian Porter, 355 Walsh Ave., Newington, CT 06111 Editor: Mike Swanson, 29 Chestnut Hill, Greenfield, MA 01301-3003;

(978)897-8221 jca (508) 752-8328 bud (203) 644-9600 hul

jcahoon@geochronlabs.com buckybaggera@yahoo.com hubley264@cox.net chubley@snet.net

(603) 536-2401 barker@conriver.com

(860) 666-4505 (413) 773-3867 bporter@ziplink.net msmicros@crocker.com.

CALENDAR OF UPCOMING EVENTS

The North Shore Rock & Mineral Club Micromounters meet the 2nd Wednesday of every month at the home of John and Margaret Stewart, 244 Mill Street, Burlington, MA.

Call (781) 272-0854 for more information.

March 2002

- 9 Saturday. 26th Micromount Show. 10_{AM} to 3_{PM}. Rock & Mineral Club of Lower Bucks County, PA Contact Richard Tillett, Croydon, PA (215) 785-2642
- 23 Saturday MMNE meeting at Westford, MA Public Library. Doors open at 10_{AM}

April 2002

- 5-7 30th Annual Atlantic Micromounters Conference. Tyson's Westpark Hotel, McLean, VA. Contact Steve Weinberger, PO Box 301, Glyndon, MD 21071
- 18-21 29th Rochester Mineralogical Symposium Contact: Dr. Helen Chamberlain, PO Box 85 Manlius, NY 13104-0085
- 20 Saturday MMNE meeting at Shrewsbury, MA Public Library.
- 27-28 EFMLS Convention and Show, Franklin, NJ May 2002
 - **3-5** CMMA Annual Conference, Brock University, St. Catherines, Ontario
 - 4-5 39th Annual New England Gem a& Mineral Show North Shore Rock & Mineral Club, Topsfield Fairgrounds, Rte 1N, Topsfield, MA
 - 10-12 Maine Mineralogical Symposium Senator Inn, Augusta, ME Contacr: Woodrow Thompson (207) 287-7178 e-mail: woodrow.b.thompson@state.me.us
 - 18 Saturday MMNE Annual Meeting, Moose Lodge, Marlborough, MA

June 2002

21-23 Northern California Mineralogic Assoc. Contact: Sugar White, 2 Summit Ave. Redlands, CA 92373-6848 (909) 798-3635 e-mail: rbwhite@gte.net

WEB SITES AND OTHER REFERENCES OF MINERALOGICAL INTEREST

Want to find a picture of a mineral on the net? Type in http://www.google.com./images - then the mineral name.

Full text articles from the 1998-2000 volumes of the American Mineralogist can be freely downloaded as pdf files. Volumes from 2001 and 2002 can only be down loaded by MSA members. Go to http://www.minoscam.org/MSA/AmMin/TOC/TOCpage.html and check out the individual issues. Articles on new mineral names are free in all volumes - for instance http://www.minsocam.org/MSA/AmMin/TOC/Abstracts/2002_Abstracts/Jan02_Abstracts/Jambor_p181_02.pdf. (From Dr. Uwe Kolitsch, Institut fur Mineralogie und Kristallographie, Geozentrum, Universitat Wein, Althanstr. 14, A-1090 Wein, Austria via micromounts@yahoogroups.com.

A new internet group geared towards the photography of micromounts and the sharing of these efforts has been started at http://groups.yahoo.com/group/microphoto/.

A good source for replacement bulbs of all types—no minimum order, prices are good, and a large selection. Gray Supply Company. "Topbulb" catalog No. F01. www.topbulb.com. 800topbulb (1-800-867-2852).

A source for basic science supplies, including optics, magnifiers, some mineral related supplies.

Edmund Scientific. www.scientificsonline.com

Customer service: 1-800-728-6999.

Handbook of Mineralogy, Vol. II—Silicates. Free on web @ http://www.minsocam.org/MSA/Handbook/Handbook/lasso.

BALLOT FOR OFFICERS

OFFICE	NOMINEE	IN FAVOR	WRITE-IN CANDIDATE
President	Jim Cahoon		
Vice-President	Bob Janules		
Corresponding Secretary	Chris Hubley		
Recording Secretary	Pat Barker		
Treasurer	Anita Hubley		
Membership Chairperson	Brian Porter		
Editor of the Newsletter	Mike Swanson		
OR - A <i>single</i> vote for the s	late as presented		
Opposed to revision Item 2. Article 4, Section 1 In favor of deletion	ed officers. n of Article 3, section 1 n of Article 3, section 1		committee.
	,		
Please mail this ballot to th	e Corresponding Secreta	ry:	
	Chris Hubley 95 Naubuc Aver	iue	

Ballots must be received by the corresponding secretary on or before Thursday, April 18, 2002 in order to be counted. *Please see the front of this sheet for details*.

East Hartford, CT 06118

MICROMOUNTERS OF NEW ENGLAND ABSENTEE BALLOT FOR 2002-2003 OFFICERS

This ballot is intended for members of the Micromounters of New England who wish to cast ballots for the officers of the MMNE and for proposed by-laws changes and who are unable to attend the annual business meeting on Saturday, April 20, 2002. Several proposed by-law changes will be voted on at the same time. Ballots must be received by the corresponding secretary on or before Thursday, April 18, 2002 in order to be counted.

The MMNE by-laws state that the nominating committee shall generate a slate of officers which is then presented to the membership in the *Newsletter*. The slate, along with nominations from the floor, shall be presented to he membership at the annual business meeting held each year in April. All members have the right to vote, either in person or via an absentee ballot. 10% of the total membership, but not less than 10 members shall form a quorum for the purpose of elections or the transaction of business.

Currently the membership chairperson and editor of the Newsletter are appointed by the president and are not members of the executive committee. A by-laws change is proposed to add these two offices to the executive committee and eliminate the two directors from the executive committee.

Nominees:

President: Jim Cahoon

Vice President: Bob Janules
Treasurer: Anita Hubley
Corresponding Secretary: Chris Hubley
Recording Secretary: Pat Barker
Membership Chairperson: Brian Porter
Editor: Mike Swanson

All nominees have agreed to serve if elected.

ARTICLE 3 Officers and Their Duties

Section 1. The officers of this Club shall consist of a President, Vice-President, a Recording Secretary, a Corresponding Secretary and a Treasurer, all of whom shall be elected at the annual meeting and shall hold office until their successors are elected.

Change to read: The officers of this club shall consist of a President, Vice-President, Recording Secretary, Corresponding Secretary, Treasurer, Membership Chairperson, and the Editor of the *Newsletter*, all of whom shall be elected at the annual business meeting and shall hold office for a term of one year until the next annual meeting or until their successors are elected.

ARTICLE 4 Executive Board

Section 1. The Executive Board shall consist of the officers of the Club and two members at large called Directors. One Director shall be elected annually to serve a two-year term, or until a successor is elected.

Delete this section so as not to increase the size of the executive committee.

Please see the back of this sheet for the actual ballot.

MICROMOUNTERS OF NEW ENGLAND 21st ANNUAL NORTHEAST MEETING Saturday, May 18, 2002

Moose Lodge 67 Fitchburg Street, Marlborough, MA

Schedule:

9:00 - 12:00 Registration, informal session
12:00 - 1:00 Lunch
1:00 - 2:00 Speaker
2:00 Door Prize drawings
2:00 - 4:00 Informal session

PROGRAM

Gene Bearss will speak on Micromounting in the Maine Granite Pegmatites

Bring your microscope, light, extension cord and specimens for discussion, identification, swapping or give-away.

Give-away material will be available but please bring some of your own to spice up the selections.

There will be a sales table. Please consider bringing some choice micromount material to donate to the sales table to help defray the cost of the meeting.

A registration fee of \$20 for members and \$25 for non-members includes light refreshments, lunch and a souvenir program.

Note: No private sales of mineral specimens may be conducted in the Moose Lodge.

The following lodging sites are available nearby. Make your own reservations.

Hampton Inn, Framingham, MA 1-800-426-7866 Rte 20, 1 mile east of I-495

Super 8 Motel, Marlborough, MA 1-800-848-8808 On the road into Solomon Pond Mall from I-295

Red Roof Inn, Southboro, MA 1-800-843-7663 I-495 & Rte 9

Holiday Inn, Marlborough, MA 1-800-465-4329 I-495 & Rte 20

A map to the meeting site is on the reverse of this page.

REGISTRATION FORM

REGISTRATION FEE: Members \$20, Non-members\$25

MAKE CHECKS PAYABLE TO: MICROMOUNTERS OF NEW ENGLAND
RETURN TO: Margaret Stewart

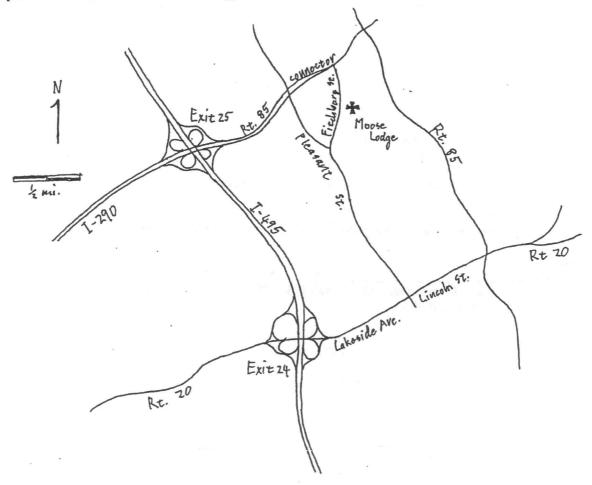
244 Mill Street, Burlington, MA 01803-1838

NAME(S):	
ADDRESS:	

PLEASE RETURN BY MAY 1, 2002 AS SPACE IS LIMITED 48 HOUR NOTICE IS REQUIRED FOR REFUND

Moose Lodge, Marlborough, MA

The map shown has been modified to show all approaches, so that compass directions and distances are distorted.



Last Name	First Name	Address	City	State	Postal Code	Home Phone	Email Address
Anderson	John & Susan	17 Ginley Road	Walpole	MA	02081	(508) 668-2008	jraanders@erols.com
Anderson	George	62 Diane Drive	Vernon	СТ	06066-6237	(860) 646-4474	gander323@aol.com
Barker	Robert	PO Box 810	Campton	子	03223-0810	(603) 536-2401	barker@connriver.com
Barker	Patricia	PO Box 810	Campton	Ξ	03223-0810	(603) 536-2401	barker@connriver.com
Bearss	Gene	33 North Avenue	Sanford	Ē	04073-2943	(207) 324-3610	
Betancourt	Philip	410 Chester Avenue	Moorestown	Z	08057-2502	(609) 234-8284	pbetancourt@worldnet.att.n
Biggart	Norman B.	4 Baron Park Lane, Apt. #1	Burlington	¥	01803-5431	(781) 272-1537	normviking@juno.com
Boggs	Robert	10434 22 Avenue SW	Seattle	WA	98146-1333	(206) 242-7485	
Brackley	Robert	2099 Sanford Road	Wells	Ě	04090-6439	(207) 646-7374	
Cahoon	Jim	31 Parker St.	Maynard	M	01754	(978) 897-8221	jcahoon@geochronlabs.co
Cantor	Harve'	11 Carr Lane	Sicklerville	Z	08081	() - 0	
Cares	Steve & Janet	18 Singletary Lane	Sudbury	MA	01776-2402	(978) 443-9180	
Champlain	Richard	15 Burr Rd.	Old Lyme	CT	06371	(203) 434-5092	
Charman	Alfred	571 Forest Road	West Suffield	СТ	06093		
Dodge	Marilyn	534 Salem Street	Wakefield	MA	01880-1238	(781) 224-7326	assoc9069@aol.col
Ebner, Jr.	John	PO Box 1169	Wall	Z	07719-1169	(732) 681-3451	jcebnerjr@cs.com
Elvin	Alfred	52 Second Hill Road	New Milford	CT	06776	(860) 355-3837	(860) 355-3837 al-lauren-lucie@worldnet.att.
Fielding	Herbert	48 Butters Row	Wilmington	MA	01887-3341	(978) 657-7463	(978) 657-7463 hlfielding@netzero.net
Fogg	Vera	1040 Gorham Pond Road	Dunbarton	Z	03045-4508	(603) 774-6450	de un sons america homogrampioni productivo (vinadoptipa america cumbigato bullente service de productivo de companyo e su
Goldberg	Murray & Shirley	2 Tropicana Court	Toms River	Z	08757-6445	(732) 505-6860	murrgold@juno.com
Hakesley	Edward	511 E 13th Street	Mountain Home	AK	72653		edscamp@aol.com
Henderson, Jr.	William A.	47 Robin Ridge Dr.	Madison	CT	06443-2044	(203) 245-0489	willhenderson@cshore.com
Herard	Harold	2 Betty Street	Auburn	MA	01501	(508) 755-5947	
Hitchings	Les & Marge	10 Church Street	Saugus	M	01906-2474	(781) 233-4968	is the extract parties in this free flagshift characteristic and included in the extraction of the ext
Hollmann	Ken	PO Box 134	Center Rutland	≤	05736-0134	(802) 747-1443	1
Hubley	John and Anita	90 Valley View Drive	South Windsor	CT	06074-2829	(203) 644-9600	hubley264@cox.com
Hubley	Christopher	95 Naubuc Ave	East Hartford	CT	06118	(860) 985-3076	chubley@snet.com
Jackson	Gordon & Pamela	PO Box 600	Canterbury	壬	03224-0600	(603) 783-4493	gsj8544@aol.com
Janules	Bob	17 Woodward Rd.	Merrimack	壬	03054	(603) 424-9269	janules@worldnet.att.net
Jewell	Inga & Dana	100 Lynn Fells Parkway	Melrose	MA	02176-2610	(781) 665-2756	
Kieron	Michael W.	38 Merritt Rd.	Riverside	꼰	02915-3805	(401) 434-0281	mkieron@cox.net
Landers	Joan	PO Box 58	Vernon-Rockville	CT	06066-0058	(860) 872-4795	jlanders@yahoo.com
Lane	Walter & Carolyn	673 Gore Road	Alfred	ME	04002-3019	(207) 324-5934	
Leighton	Phyllis	10 Templeton Road	Phillipston	MA	01331-9794	(978) 249-4261	
Lerer	Edna	68 Pompositticut Street	Stowe	MA	01775-1107	(978) 897-2630	The second secon
MacIndewar	Josephine	72 Ryder Avenue	Melrose	MA	02176	(781) 665-9107	A TO THE
McCulloch	Dr. Hugh	211 Howe Street	Point Pleasant	Z	08742-4522	() - 0	

Last Name	First Name	Address	City	State	State Postal Code	Home Phone	Email Address
Morrison	Frances & George	182 Pine Street	Pawtucket	굔	02680-3918	(401) 726-2931	
Mortimer	Tom	3 Roberts Road	Amherst	丢	03031	(603) 673-4039	tjmort@aol.com
Norbut	Mary	122A New State Road	Manchester	5	06040	0 - ()	
Pershken	Richard	150 Surry Drive	Bristol	CT	06010-7261	(860) 583-3909	deltapapaw@aol.com
Porter	Brian L.	355 Walsh Ave.	Newington	C	06111	(860) 666-4505	bporter@ziplink.net
Rambo	George & Doug	17 North Avon Drive	Claymont	吕	19703-1501	(302) 798-4163	drambo@wserv.com
Reutlinger	Steve	PO Box 39	Greenfield	丢	03047-0039	(603) 547-3648	sjrprime@aol.com
Saums	Marjorie	24 Joseph Street	Manchester	다	06040	(860) 649-5443	
Sevrens	Betty	PO Box 397	Plymouth	丢	03264-0397	(603) 546-2050	
Sole	Elaine M.	188-02 89th Avenue	Hollis	×	11423-1906	(718) 776-3823	enementation de régimentation de la maigne de présent de la constitue de la co
Spellman	Richard	122A New State Road	Manchester	C.	06040	(860) 643-6843	respellman@snet.net
Stanescki	llene & Ted	25 Woodside Crossing	Enfield	5	06082	(860) 749-1064	iweins@hotmail.com
Stenberg	Richard	185 Redlands Street	Springfield	MA	401104	(413) 733-9309	
Stewart	Margaret & John	244 Mill Street	Burlington	MA	01803-1838	(781) 272-0854	micromount@juno.com
Swanson	Michael	29 Chestnut Hill	Greenfield	MA	01301-3003	(413) 773-3867	msmicros@crocker.com
Swarts	Johannes	PO Box 846	Bradford	5	05033-0846	(802) 222-4875	johannes_swarts@gdt1.co
Taparowsky	Bettee	404 Westford Drive	Southport	5	06490-1479	(203) 254-2508	
Teixeira	Angie	25 Chappell Street	Seekonk	MA	02771-4107	(508) 336-5561	angietex@aol.com
Warner	D. James	23 June St.	Auburn	MA	01501-1744	(508) 752-8328	buckybaggera@yahoo.com
Weber	Marcelle & Charles	1172 West Lake Avenue	Guilford	72	06437-1342	(203) 457-9810	mhweber35@mac.com
Whitmore	Robert	Route 2	Weare	돌	03281		
Whittemore	Scott	8 Goldfinch Lane	Nashua	王	03062-2243	(603) 888-1174	cyrtolite@aol.com
Wilken	Anna & Robert	32 Red Cedar Drive	New Milford	CT	92.290	(860) 355-4010	microxl@att.net

Continued from last issue

Silver (Ag): Dissolve a pinch of powdered mineral in a drop or two of HNO3, add a drop of HCl. If Ag is present it will yield a white precipitate of silver chloride (AgCl) which turns dark on exposure to light. The precipitate will not dissolve in hot water (see test for Cr in the previous post) but will dissolve in NH4OH. (Same test shows Hg, but it won't dissolve in NH4OH. To confirm, add 2 or 3 drops of potassium chromate – if you get a brick red precipitate it's silver chromate (Ag2CrO4) and Ag is confirmed.

Sulfate (SO4): For water-soluble minerals, dissolve a pinch of powdered mineral in a few drops of distilled water, then add a few drops of barium chloride solution — BaCl2.2H2O. If SO4 is present it will yield a white precipitate of BaSO4.

Sulfate (SO4): For non water-soluble minerals, first dissolve the powdered mineral in HCl, then evaporate most of the acid by heating until the solution is almost gone. Then add a few drops of distilled water. This gets you to the same place as the start of the test described above, with the SO4 disassociated from the metallic ion(s) – proceed with that test.

Sulfur (S)/Hydrogen Sulfide (H2S): Suspected sulfide minerals can be easily tested by crushing to a powder and then adding a drop of HCl to a pinch of the powder. Sniff (gingerly!) – a "rotten egg" odor indicates the presence of hydrogen sulfide gas being released by the reaction. Sometimes this will even work with a crystal or chip that hasn't been powdered. And sometimes the process of grinding the mineral to powder produces the odor – such as with pyrite. So, you may not even have to add the acid!

Tantalum (Ta): Same test as for niobium – see above. (Unfortunately, I don't know of any "home lab chemistry" test that will distinguish between the two...)

Tin (Sn): Dissolve a pinch of powdered mineral in a few drops of HCl, add small shavings of zinc and heat over a flame; if Sn is present it will form a white precipitate on the Zn shavings.

Tin (Sn): Use the tests as for bismuth (see previous post). Sn will produce the same result, but the Sn-hydroxide will re-dissolve in excess NH4OH – and Sn-sulfide is a lighter brown color.

Uranium (U): Mix a pinch of the powdered mineral in a drop or two sulfuric acid (H2SO4), then heat the solution carefully to evaporate the liquid away until the remaining powder is almost dry. Add several drops of distilled water to make a yellow solution. Draw off the solution from the powder. Add tiny shavings of zinc to the

solution. If U is present the solution will turn from yellow to green, and in time a yellow precipitate will form on the remaining zinc. (Note: If large amounts of iron or vanadium are also present, they will interfere with this test.) [WARNING: Do not breath powdered U minerals or the fumes from the solution! Do this test in a well-ventilated area. U can cause radiation burns and cancer if breathed in. Use all due precautions. Exhaust all other possible means of identification – fluorescence, crystallographic, physical, geiger counter, etc. - before trying chemical ones.]

Vanadium (V)/ Vanadate (VO4): Dissolve a pinch of powdered mineral in a few drops of HCl, add zinc shavings and heat strongly for several minutes. If V is present the solution will turn first yellow, then green, and finally bluish-violet.

Vanadium (V): Another test is to slowly add NH4OH to the test solution until it is slightly basic (use litmus paper), then add two additional drops of NH4OH and one drop of fresh Na2S solution. If V is present the solution will turn a violet-red color. (Note: This test will not work if molybdenum is also present.)

Zinc (Zn): Dissolve a pinch of powdered mineral in a few drops of HCl, add several drops of fresh Na2S solution. If Zn is present it will form a white precipitate of ZnS.

From Alan Plante - June 01, 2001

This concludes Alan Plante's Chemistry series, but there are a number of comments and additions which have come out in various formats since publication of this article in micromounting@groups.yahoo.com. These will be presented in subsequent Newsletters.

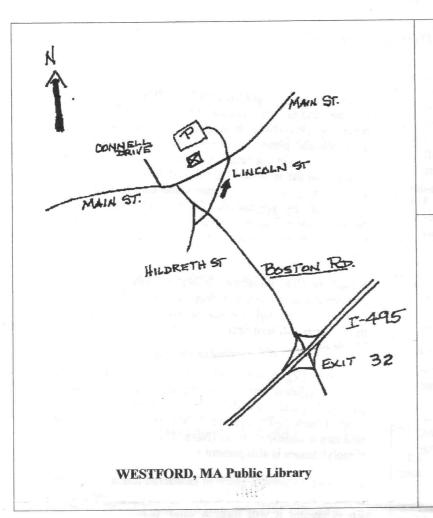
MMNE Treasurer's Report August 31 - December 31, 2001

Opening Balance

August 31, 2001 \$5,634.04 Income 279.00 Expenses 1,765.02

Expenses

Ending balance
December 31, 2001 \$4,148.02



Directions to Westford, MA Public Library

From I-495, coming from north or south, take exit 32 and head north towards Westford on Boston Rd. Go approximately one (1) mile to fork in road and take Lincoln St. to the right. At the intersection of Lincoln and Main Sts. The entrance to the parking lot in directly across the street, and the library is across the street to the right. Enter through rear door and go down several steps to meeting room on the left. Doors open at 10 AM.

MMNE Meeting Schedule

Saturday, April 20 Annual business meeting Shrewsbury, MA Public Library.

Saturday, May 18 Annual Northeast meeting with speaker Moose Lodge,, Marlborough, MA

Micromounters of New England Michael W. Swanson, Editor 29 Chestnut Hill Greenfield, MA 01301-3003





Tom Mortimer 02 3 Roberts Road Amherst, NH 03031