

CRYOLITE

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NEWSLETTER #46

January 4, 1979

Boston University will be the location of the next regular meeting of the Micromounters to be held on Sunday, January 21, 1979, from 10AM to 4PM (see enclosed map). Arrangements have been made by John Stewart, of the Geology Department.

A special event has been planned - we will hear about micro (... microgram or larger) chemical analysis that is both qualitative and semi quantitative with methods, procedures, and examples given and enchanced by 15 slides of the home technique of our guest, Mr. Lawrence Pitman, of Sudbury.

We will also have an identification period for Francon material and a chance to view John Stewart's reference collection from there, many of which have been X - rayed.

In case of bad weather the meeting will be held on January 28, 1979.

Alsor held on 2nd date

For those of you looking for something new to view - try snowflakes under the scope. You will have to bring the microscope outside, but under a roof like a porch or garage (unheated) and capture some of the white stuff on a dark background. I think you will be amazed at what you can see.

John + Margaret Stewart

Steve + Janet Cares

Norm Biggart

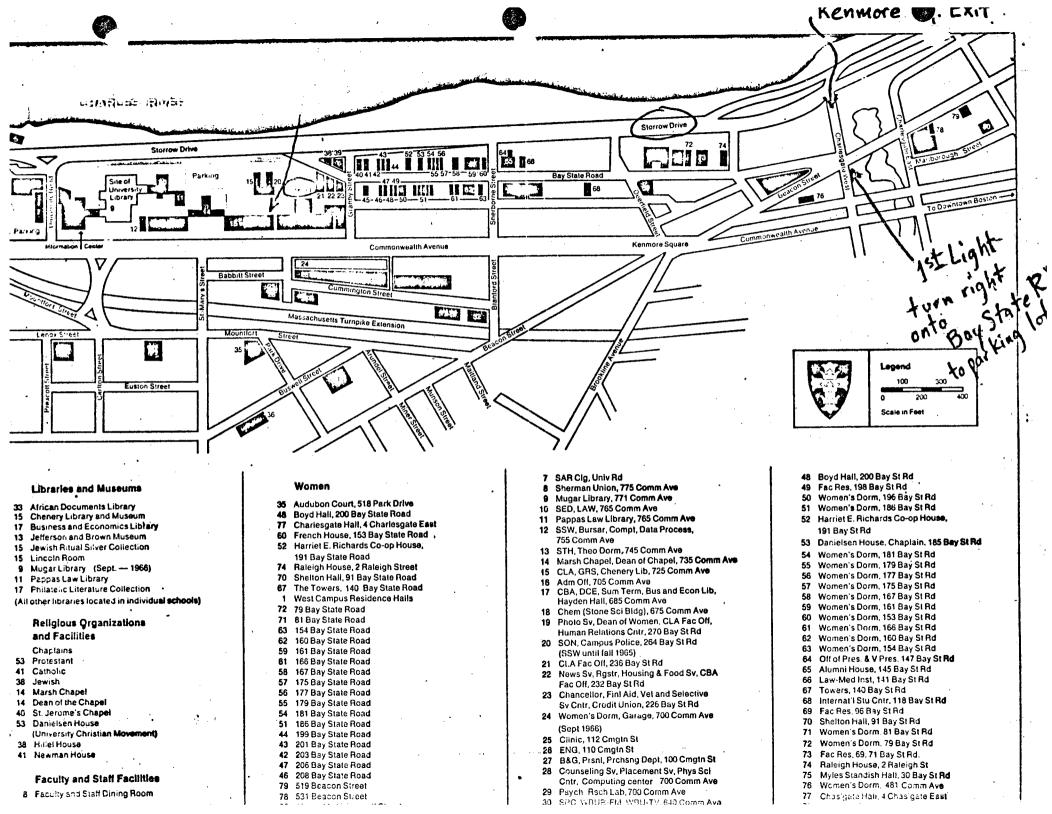
Fred Bass

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Jim & Bothy Taparously
Stew & Jamet Cares
Inex Chick
Park Buker
Palmer Serrami
Robert Kurchbart
MV+Mrs R.Robt Pearlman
Rapph + Violet Corr.

Margaret Such Ray Desicourt John Anderson



Common Courtesy and Visiting Collectors

Early in the month of December, I received a phone call from a California nineral collector who was in town locally on business. It is my desire to be as helf-ful as possible to visitors and with that thought I told him I'd call him back with information he could use. After making a couple of phone calls, I learned that the man was a California mail order dealer. I knew, Fogg & Whitmore of Palermo, also being dealers might also be interested in doing business with another dealer. I obtained confirmation of this and called the visitor back with this information. I made a point of telling the dealers visitor that I was aware of his buisiness dealings and disproved of his approach to local people professing to swap for his personal collection when it is known that most dealers will eventually sell anything they acquire. He maintained his honesty in swapping however I maintain this is misrepresentation. Perhaps if you are called by an out-of-town visitor, the first question night be: "Are you an advertising mineral dealer or do you work for one?". Hopefully an honest answer may lead to another friendship.

Norm Biggart

Cordilleran of Washington in 1975. 184 pages 52x82 paperback \$5.43 including hanling from Bart Cannon, 1041 N.E. 100 Street, Seattle, Wash. 98125. Over 71 pen & ink drawings of minerals including unusual ones such as: leadhillite, forsterite, ferrierite, epistlebite, erionite, anthophyllite, ankerite and thompsonite. Approximately 354 mineral descriptions (reliably dome) with locations (site name, town & county) and associated minerals and deposits. There is no comprehensive index so the pages are both numbered and alphabetized in relation to the alphabetical mineral listing. The intent of the book appears to be useful as a field mineral association guide because it has lengthy descriptions of mineral environments, descriptions of mineral occurences within the provinces of the state, county index of mineral site locations with references to page number also a fairly lengthy explanation of the mineral descriptions used in the book including mineral crystal systems. There is a glossary of mineral & rock terms and a bibliography. The pen & ink drawings are excellent. A good book for anyone interested in the varied mineral occurances of this country. Norm Biggart Dec.1978

MINERALS OF COLORADO - A 100 year record: by E.B. Eckel. 1961 399 pages \$5.00 available from the Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202. This is an excellent reference book for the field and mineral collector which has been out of print but is now available. A great buy!!

THE MINERALS OF MT - ST-HILAIRE

The following is the list of minerals reported to date from Mt. St-Hilaire.

The list was compiled by L. Horvath, 47 Bois Franc, Ste. Julie, Quebec, Canada, JOL 200

BBREVIATIONS: Species underlined Hilairite = First identified from NSH

* Before species *Brockite = Confirmation Required

RARITY:

VC = Very Common

ER = Extremely Rare

C = Common

VR = Very Rare

MC = Moderately Common

MR = Moderately Rare

MINERAL	RARITY	MINERAL	RARITY	MINERAL	RARIT			
ACMITE-AEGIRINE	VC	DONNAYITE	VR	LÖLLINGITE	ER			
ACTINOLITE	MC	EKANITE D	a.VR	= LORENZENITE	MC			
ALBITE	VC	ELPIDITE	MR		1			
ALMANDINE	ER	EPIDIDYMITE	VR	MAGNETIŢE	R			
ANALCIME	VC	EUDIALYTE	MC	MALACHITE	1 "			
ANATASE	VR	EWALDITE	ER	MANGAN-NEPTUNITE	VR			
ANCYLITE	C		•	MARCASITE	VR			
ANDRADITE	R	FLUORITE	C	MICROLINE	2 '			
ANGLESITE	ER			*MINNESOTAITE	VC			
-ANKERITE	R	GAIDONNAYITE	ER	-				
ANTIGORITE	R	GALENA	MC	MOLYBDENITE 3R & 6H	MC			
	MR	GENTHELVITE	VR	MONTEREGIANITE	VR			
"APATITE"	MR	GIBBSITE	VII.	*MONTMORILLONITE				
APOPHYLLITE	ER	_	- TOTA	*MOUNTAINITE	1			
ARAGONITE		GMELINITE - can & illust	ra Tol t by	EstMOSANDRITE (** 10 m side)	V R			
ARFVEDSONITE	HC	GOETHITE TATES FEETE	pagambac	: SEMURMANITE	ER			
SENOPYRITE	VR	GOTZENITE - 12 - 12 - 12 - 12	in ERc [MUSCOVITE TO THE TANK THE	C			
ASHCROFTINE	ER	GROSSULAR From as: lea	ar ER	. fomckelveyite and and a	ER			
ASTROPHYLLITE	C	GRUNERITE ara	Jr. VR ⊤scr	ine. Armomimonaly 35.				
AUGITE	MC	.GYPSUM	ER	NARSARSUKTTE	R			
and the second s			mararri,	NATROLITE	VR			
BARYLITE	ER	HARMOTOME	R	NENADKEVICHTTE	·R			
BARITE	VR	HEDENBERGITE	Ţ, VR	NEPHELINE				
BASTNAESITE	VR	HEMATITE	VR.	- NEPTUNITE	ER			
BEHOITE	ER	HELVITE	ER	NORDSTRANDITE	- R			
BIOTITE	C	HEMIMORPHITE 222	ER		~			
BIRNESSITE	VR-	HILAIRITE	ER	- ORTHOCLASE	C			
*BRITHOLITE		DIORTDAHLITE	TO ER S	- MARTHOOTHOM				
*BROCKITE		HORNBLENDE	rus <mark>c</mark> eptesn	*PALYGORSKITE				
BROOKITE	MR	HYDROGROSSULAR COS CO	ปกโร ธอน	PARISITE	200			
BURBANKITE	ER	HYDROTALCITE	ER		ER			
DOMBANCIE		11121101120112	24,	PECTOLITE	MC.			
CALCITE	ve-	ILMENITE	MC .	PHLOCOPITE	MR			
CANCRINITE	R	TIAMENTIC		POLYLITHIONITE	MC .			
	R	TOAOTTATTED	177D -	PYRITÈ	VC			
CARLETONITE	5	JOAQUINITE 100 year 1	ec 81 c:	by Pyrochlore 1981	VR			
CATAPLEIITE	MR	KAINOSITE the Bran	ch_of I	istPYROLUSITE Company	VR			
CHALCOPYRITE	VR		. Arlin	2 E PYROPHANITE	MR			
"CHLORITES"	MC	- KAOLINITE 4868 Street	,	PYRRHOTITE	MC			
CORDYLITE	ER			1 PRILLIPSITE	ER			
CHABAZITE	1441	: LABUNTSOVITE'S NOW AV		. A STEEL Define t				
•		LAVENITE	ER	QUARTZ	C			
\TOLITE	ER	LEIFITE	ER					
W LAWSONITE	VR	LEMOYNITE	ER	RAITE	ER			
DELHAYELITE	ER	LEUCOPHANITE	R "	RIEBECKITE	R			
DIOPSIDE	VR	LEUCOSPHENITE	.VR	*RIPIDOLITE	**			
DOLOMITE	MR	"LIMONITE"	MC	RUTILE	MD			
MUNICIPALITY	1 ""			WOITE	MR			
•	1			j				
•	1-		,	}	-			

Volume 12 Number

NUMBOR D DESCRIPTION

MINERAL	RARITY	MINERAL	RARITY	MINERAL	RARITY
RHODOCHROSITE	MC	TAENIOLITE	R	VESUVIANITE	
TERITE		*TALC	1 1	(IDOCRASE)	MR
TERITE	1 1	TETRANATROLITE	MC	VILLIAUMITE	ER
SCHEELITE	ER	THAUMASITE	ER	VINOGRADOVITE	
SEPIOLITE	1	THOMSONITE	ER.		
SERANDITE	MR	THORITE	ER	WILLEMITE	VR
SIDERITE	VC	THOROGUMMITE	ER	WÖHLERITE	ER
SODALITE	1 . 1	TITANITE (SPHENE)	MC	WOLLASTONITE	
(HACKMANITE)	VC	*TOBERMORITE	1 1	WURTZITE	ER
SPHALERITE	c	TUNDRITE	ER	WULFENITE	ER
STEENSTRUPINE	}		1 1		1
STILLWELLITE	ER		1 1	YOFORTIERITE	ER
STRONTIANITE	VR	•	1 1		ł
SYNCHYSITE	R		}	ZIRCON	C

Our sincere thanks to Les for the above information....a big job well done! Its a great place to collect micro minerals and 151 minerals is fantastic!

BENITOITE

Benitoite was discovered as a new mineral in San Benito County in 1907. It has been reported as occuring in Belgium in sands in the Owithe Valley, Anten, and in Southwest Texas in Eccene sands. There is a white Benitoite found in Fresno County and grains of Benitoite have been found in Kern County. San Benito County is where it was first found and it comes in colorless or sapphire blue crystals. The first pieces were thought to be sapphire when discovered in the headwaters of the San Benito River. Later they were found to be new minerals. The crystals occur in a zone of narrow veins of natrolite in serpentine and are associated with neptunite and joaquinite.

(Thanks to Juanita Curtis of the Southern California Micro-Mineralogists.)

AUTUNITE

Autunite is a hydrated phosphate of calcium and uranium. A secondary mineral found chiefly in the zone of oxidation and weathering of hydrothermal veins and pegmatites. It is derived by alteration of uranium or other uranium containing minerals. Torbernite is hydrated phosphate of copper anduranium. Although similar in structure to autunite, copper and lime may not substitute for each other. This confirms the conclusion by Hurlbut and the statement in Dana's System, (page 985) that torbernite and autunite are not end members of a series. But barium and magnesium may substitute for calcium. The water content may vary and when doing so may alter to metautunite. This change, under varying conditions, may be reversible or irreversible.

Colour varies from lemon-yellow to sulphur yellow and may be transparent or translucent. It has a green streak and pearly lustre. Fluoresces a yellowish green in ultraviolet light.

(Thanks to the Mineral Mite, bulletin of the Micro Mineralogists of the National Capital Area)