



MICROMOUNTERS OF NEW ENGLAND

NEWSLETTER #73

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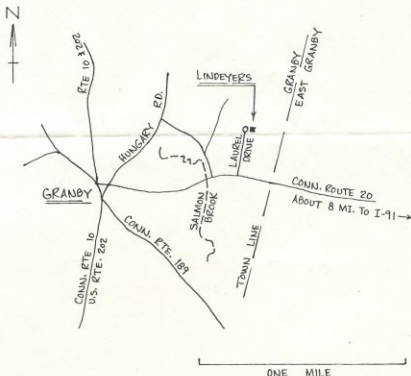
Contributions of news items for the Bulletin are welcome and should be sent to the Bulletin Editor.

The next regular meeting will be held on Saturday, September 11, 1982, at the home of the Lindeyer's, in Granby, CT (see map below). Some time will be spent on the schedule for the upcoming year with some thoughts to field trips.

An Australian micromounter (Bill Sweetman) has sent a list of minerals which he has for trade which includes many of the non-pegmatite phosphates discussed by Bill Henderson at the May meeting. If interested in an exchange contact the Cares for his address and list of over 60 minerals for swap.

New Members:

Mr./Mrs. Herbert (Julia) Fielding
48 Butters Row
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NON PEGMATITE PHOSPHATES - Part 2

This is a continuation of the summary of the lecture given by Bill Henderson at our May 1, 1982 meeting.

Slides of minerals from the Rotlaufchen Quarry in W. Germany were:

1. Pale ivory colored Kidwellite, a sodium iron phosphate, on Rockbridgeite.
2. Yellow Cacoenite on red Beraunite, both iron phosphates.
3. Pink Strengite balls with Cacoenite and Beraunite.
4. Golden yellow Laubmannite, an iron phosphate, at 90 power.

Returning to the United States; minerals from the Bachman Mine in Hellertown, PA were shown as follows:

1. Beraunite
2. Cacoenite, as a solid mass of fibrous radiating material, showing the honey brown color rather than the yellow color of individual needles, due to different optical properties and light scattering.
3. Matulaite, a calcium aluminum phosphate, found also in North Carolina and West Germany.
4. White Matulaite on red Beraunite.
5. Compound tabular diamond shaped Matulaite. This mineral has not been found as a single crystal, so single crystal x-ray work is not yet possible.

Slides of minerals from Indian Mountain, Alabama were:

1. Green Laubmannite with Rockbridgeite and dull reddish-brown Beraunite, all iron phosphates.
2. Bright red Beraunite and pink Strengite.
3. Unusual tabular Rockbridgeite with yellow alterations on each side of the crystal.
4. Yellow Kidwellite coating Beraunite.
5. Strengite

(ed. note: Steve and Janet Cares collected at Indian Mountain this past spring and have donated specimens to the give away box which can be seen at our regular meetings - -check it out.)

The next phosphate location discussed was the Kapunda area of South Australia, which is a metamorphosed bone breccia deposit containing some fluorine minerals; the fluorine being derived from the bones. There are also aluminum minerals; the aluminum being derived from nearby shales and slates.

Slides of minerals from the Kapunda area were:

1. Minyulite and Fluellite, both fluoro-aluminum phosphates.
The iron phosphate minerals Cacoenite, Leucophosphate, and Rockbridgeite are also present, with the iron having been derived from the alteration of pyrite.
2. Minyulite crystals, showing a square cross section, on Wavellite.
3. White Wavellite on Leucophosphate.
4. Fluellite, an aluminum fluoro-phosphate.

TO BE CONTINUED.

NEW AND RARE MINERALS
FRANKLIN-STERLING HILL, NEW JERSEY
GERSTMANN FRANKLIN MINERAL MUSEUM

NAME	CHEMICAL COMPOSITION	SYSTEM	MAG. NAME	VOLUME	
				NUMBER	PAGE
Gerstmannite	$(\text{Mg}, \text{Mn})_2\text{ZnSiO}_4(\text{OH})_2$	Ortho.	Picking Table	18 2	4
Manganpyrosomalite	$(\text{Mn}, \text{Fe}^{+2})_8\text{Si}_6\text{O}_{15}(\text{OH}, \text{Cl})_{10}$	Hex.	"	18 1	10
Nasonite	$\text{Pb}_6\text{Ca}_4\text{Si}_6\text{O}_{22}\text{Cl}_2$	Hex.	"	13 1	12
Schallerite	$(\text{Mn}, \text{Fe}^{+2})_8\text{Si}_6\text{As}(\text{O}, \text{OH}, \text{Cl})_{26}$	Trig.	"	17 2	4
Greenockite	CdS	Hex.	"	20 2	8
Hauckite	$\text{Fe}_3^{+3}(\text{Mg}, \text{Mn})_2\text{Zn}_6(\text{SO}_4)_4(\text{CO}_3)_2(\text{OH})_{81}$	Hex.	"	21 2	6
Akrochordite	$\text{Mn}_4\text{Mg}(\text{AsO}_4)_2(\text{OH})_4 \cdot 4\text{H}_2\text{O}$	Mono.	"	22 2	7
Allactite	$\text{Mn}_7(\text{AsO}_4)_2(\text{OH})_8$	Mono.	"	15 1	8
Brandtite	$\text{Ca}_2(\text{Mn}, \text{Mg})(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$	Mono.	"	17 1	5
Eveite	$\text{Mn}_2(\text{AsO}_4)(\text{OH})$	Ortho.	"	13 2	5
Koettigite	$\text{Zn}_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	Mono.	"	14 1	8
Kollicite	$\text{Mn}_7\text{Zn}_4(\text{AsO}_4)_2(\text{SiO}_4)_2(\text{OH})_8$	Ortho.	"	21 1	6
Pharmacosiderite	$\text{KFe}_4^{+3}(\text{AsO}_4)_3(\text{OH})_4 \cdot 6-7\text{H}_2\text{O}$	Cubic	"	19 2	5
Picropharmacolite	$\text{H}_2\text{Ca}_4\text{Mg}(\text{AsO}_4)_4 \cdot 11\text{H}_2\text{O}$	Tri.	"	20 2	7
Sarkinite	$\text{Mn}_2^{+2}(\text{AsO}_4)(\text{OH})$	Mono.	"	21 2	9
Scorodite	$\text{Fe}^{+3}\text{AsO}_4 \cdot 2\text{H}_2\text{O}$	Ortho.	"	20 2	7
Manganese-Hoernesite	$(\text{Mn}, \text{Mg})_3(\text{AsO}_4)_2 \cdot 8\text{H}_2\text{O}$	Mono.	Amer. Min.	39	159
Hedyphane	$(\text{Ca}, \text{Pb})_5(\text{AsO}_4)_3\text{Cl}$	Hex.	"		
Holdenite	$\text{Mn}_6\text{Zn}_3(\text{OH})_5(\text{AsO}_4)_2(\text{SiO}_4)_9$	Ortho.	Min. Rec.	12 6	373
Ogdensburgite	$\text{Ca}_3\text{ZnFe}_6^{+3}(\text{AsO}_4)_5(\text{OH})_{11} \cdot 3\text{H}_2\text{O}$	"	"	12 6	369
Pyrosaurite	$\text{Mg}_6\text{Fe}_2^{+3}(\text{CO}_3)(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	Trig.	"	12 6	371
Sjogrenite	$\text{Mg}_6\text{Fe}_2^{+3}(\text{CO}_3)(\text{OH})_{16} \cdot 4\text{H}_2\text{O}$	Hex.	"	12 6	371

