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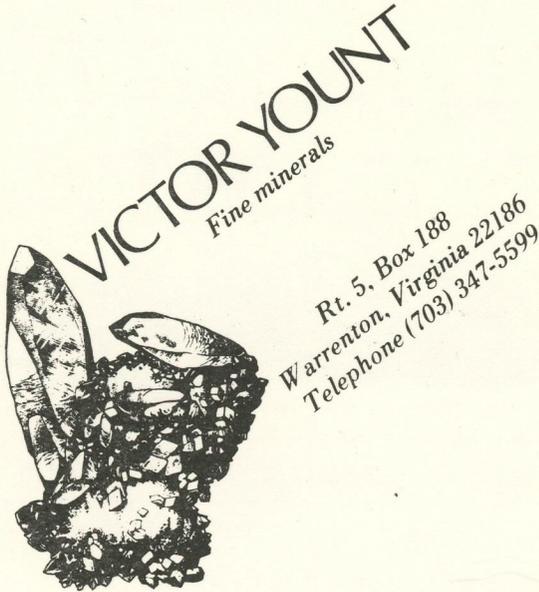
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THOMAS J. WEBB, SR.

We, the Officers and Members of The Franklin Kiwanis Club, express our thanks and appreciation to fellow member, Tom Webb, for the many years of dedicated service to the community in true Kiwanis spirit and principles.

Tom has been a member of the Franklin Kiwanis Club since 1948. As a member for 38 years, he has served as President, Member of the Board of Directors and as Chairman of many of the Club's Fund Raising projects. Most notably, he has distinguished himself for the outstanding performance as chairman of our annual mineral show for the past eleven years. The show and its advance preparation requires talent and many months of labor. Those who attend and participate in our mineral show realize the credit of its success goes to Tom, who is ably assisted by his wife, Helen, whose patience and understanding of our shortcomings is sincerely appreciated.

In addition to the many hours of labor required in preparing the armory for the mineral show, Tom is physically present at the armory for the duration of the show, serving as trouble shooter and supervisor.

In addition to the many hours devoted to the community projects of Kiwanis, Tom and Helen are well known in New Jersey as the most productive beekeepers. Tom is past president of the New Jersey Beekeepers Assn. and Northwest Beekeepers Assn. Tom is presently president of the Sussex County Beekeepers Assn. He is also a member and past president of the Southeastern Beekeepers Club and member of the Empire State Honey Producers Assn.

Added to all the aforementioned, Tom is also a member and past president of the Sussex County Agricultural Society, a Director on the board of Sussex Rural Electric Cooperative, a member of New Jersey Farm Bureau, a member of American Legion, Charles Auberger Post 213, a member of Samaritan Lodge #98 F & AM and annually participates in the Sussex County Farm and Horse Show as an exhibitor and lecturer.

On this 30th Anniversary of the Franklin Kiwanis Mineral Show, we honor Tom Webb for his tremendous contributions to the community and the success of our annual mineral show.



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The FRANKLIN-STERLING HILL MINERALS

Edited from various sources by John L. Baum, Curator of the Franklin Mineral Museum, August, 1986, following the nomenclature of the 1983 Glossary of Mineral Species, and with special thanks to Dr. Pete J. Dunn.

Acanthite	Cahnite	Fayalite
Acmite	Calcite	Feitknechtite
Actinolite	Canavesite	Ferrimolybdate
Adamite	Carrollite	Ferristilpnomelane
Adelite	Caryopillite	Ferroaxinite
Akrochordite	Celestine	Flinkite
Albite	Celsian	Fluoborite
Allactite	Cerussite	Fluorapatite
Allanite	Chabazite	Fluorapophyllite
Alleghanyite	Chalcocite	Fluorite
Almandine	Chalcophanite	Forsterite
Analcime	Chalcopyrite	Franklinite
Anatase	Chamosite	Friedelite
Andradite	Charlesite	
Anglesite	Chlorophoenicite	Gageite
Anhydrite	Chondrodite	Gahnite
Annabergite	Chrysocolla	Galena
Anorthite	Chrysotile	Ganomalite
Anorthoclase	Clinoclase	Ganophyllite
Anthophyllite*	Clinochrysochalcite	Genthelvite
Antigorite	Clinoclase	Gersdorffite
Aragonite	Clinohedrite	Gerstmannite
Arsenic	Clinohumite	Glaucocroite
Arseniosiderite	Clinozoisite	Goethite
Arsenopyrite	Conichalcite	Gold
Atacamite	Connellite	Goldmanite
Augite	Copper	Graphite
Aurichalcite	Corundum	Greenockite
Austinite	Covellite	Grossular
Azurite	Cryptomelane	Groutite
	Cuprite	Grovesite
	Cuspidine	Guerinite
Bakerite		Gypsum
Bannisterite	Datolite	
Barite	Descloizite	Halloysite*
Barium-pharmacosiderite	Devilline	Halotrichite
Barylite	Digenite	Hancockite
Barysilite	Diopside	Hardystonite
Bassanite	Djurleite	Hastingsite
Bastnaesite-group mineral	Dolomite	Hauckite
Baumhauerite	Dravite	Hausmannite
Baumite	Dypingite	Hawleyite
Bementite		Hedenbergite
Berthierite	Edenite	Hedyphane
Biotite	Epidote	Hematite
Birnessite	Epsomite	Hematolite-like-mineral
Bornite	Erythrite	Hemimorphite
Bostwickite	Esperite	Hendricksite
Brandtite	Euchroite	Hercynite
Brochantite	Eveite	Hetaerolite
Brookite		Heulandite
Brucite		Hexahydrite
Bultfonteinite		Hodgkinsonite
Bustamite		

(cont.)



Holdenite	Nasonite	Sonolite
Huebnerite	Natrolite	Spessartine
Humite	Nelenite	Sphalerite
Hyalophane	Neotocite	Spinel
Hydrohetaerolite	Niahite	Starkeyite
Hydrotalcite	Newberyite	Sterlinghillite
Hydroxyapophyllite	Nickeline	Stibnite*
Hydrozincite	Nontronite	Stilbite
	Norbergite	Stilpnomelane
Illite		Strontianite
Ilmenite	Ogdensburgite	Sulfur
	Ojuelaite	Sussexite
Jacobsite	Orthoclase	Svabite
Jarosewichite	Orthoserpierite	Synadelphite
Jennite-like mineral	Oyelite*	
Jerrygibbsite		Talc
Johannsenite		Talmessite*
Johnbaumite	Pararammelsbergite	Tennantite
	Parasymplesite	Tephroite
Kaolinite	Pargasite	Thomsonite
Kentrolite*	Parsettensite*	Thorite*
Kittatinnyite	Pectolite	Thortveitite
Koettigite	Pharmacosiderite	Tilasite
Kolicite	Phlogopite	Tirodite
Kraisslite	Picropharmacolite	Titanite
Kutnohorite	Pimelite	Todorokite
	Powellite	Torreyite
Larsenite	Prehnite	Tremolite
Laumontite	Pumpellyite	Turneaureite
Lawsonbauerite	Pyrite	Tyrolite-like mineral
Lead	Pyroaurite	
Legrandite	Pyrobelonite	Uraninite
Lennilenapeite	Pyrochroite	Uranophane
Leucophoenicite	Pyrophanite	Uranospinite
Linarite	Pyroxmangite	Uvite
Liroconite	Pyrrhotite	
Loellingite		Vesuvianite
Loseyite	Quartz	
		Wallkilldellite
Magnesiohornblende	Rammelsbergite	Willemite
Magnesioriebeckite	Realgar	Wollastonite
Magnesium-chlorophoenicite	Retzian - (La)	Woodruffite
Magnetite	Retzian - (Nd)	Wurtzite
Magnussonite	Rhodochrosite	
Malachite	Rhodonite	Xonotlite
Manganaxinite	Richterite	
Manganberzeliite	Riebeckite	Yeatmanite
Manganese-hoernesite	Roebbingite	Yukonite
Manganhumite	Romeite	
Manganite	Rosasite*	Zinalsite
Manganosite	Roweite	Zincite
Manganpyrosmalite	Rutile	Zinkenite
Marcasite		Zircon
Margarite	Safflorite	
Margarosanite	Sarkinite	
Marsturite	Sauconite	
Mcallisterite	Schallerite	
Mcgovernite	Scheelite	
Meionite	Schorl	
Melanterite*	Scorodite	
Metalodevite	Seligmannite	
Metazeunerite	Sepiolite	
Microcline	Serpierite	
Mimetite	Siderite	
Minehillite	Sillimanite	
Molybdenite	Silver	
Monohydrocalcite	Sjogrenite	
Mooreite	Skutterudite	
Muscovite	Smithsonite	

* reported but not confirmed with certainty.



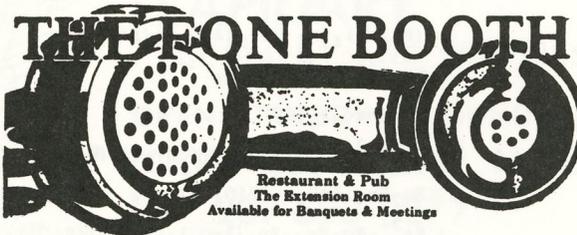
DEFINITION OF THE FRANKLIN-STERLING HILL AREA

Each year the Society publishes a list of the minerals found in the FRANKLIN-STERLING HILL area. This general "area" is, however, undefined and this has led to some ambiguity as to the inclusion or exclusion of collecting areas, and the scope of the list of minerals.

After several years of discussion, we have defined an area which encompasses both ore-bodies, the related magnetite deposits, and the marble quarries which lie between the ore deposits. Although geologic boundaries can be chosen for the east and west sides of the area, there are no clearly defined structures for the north and south limits. After much consideration, we have decided to define the "Franklin-Sterling Hill area", for the purpose of the LIST OF MINERALS, in close conformity with the "Special Map" used in the Franklin Folio. Accordingly, we define the below-noted boundaries for the LIST OF MINERALS from the Franklin-Sterling Hill area:

- East: The base of Hamburg and Sparta Mountains (Hague et al., 1956)
- West: The eastern edge of the Wildcat band of marble to where it plunges beneath the unconformity. The west boundary north of this point is defined by the Wallkill River.
- South: Brooks Flat Road (just a bit south of Sterling Hill). 517
- North: A line east-west from the intersection of Routes 23 north and ~~519~~ east (type locality for the Hardyston quartzite).

John L. Baum and Pete J. Dunn



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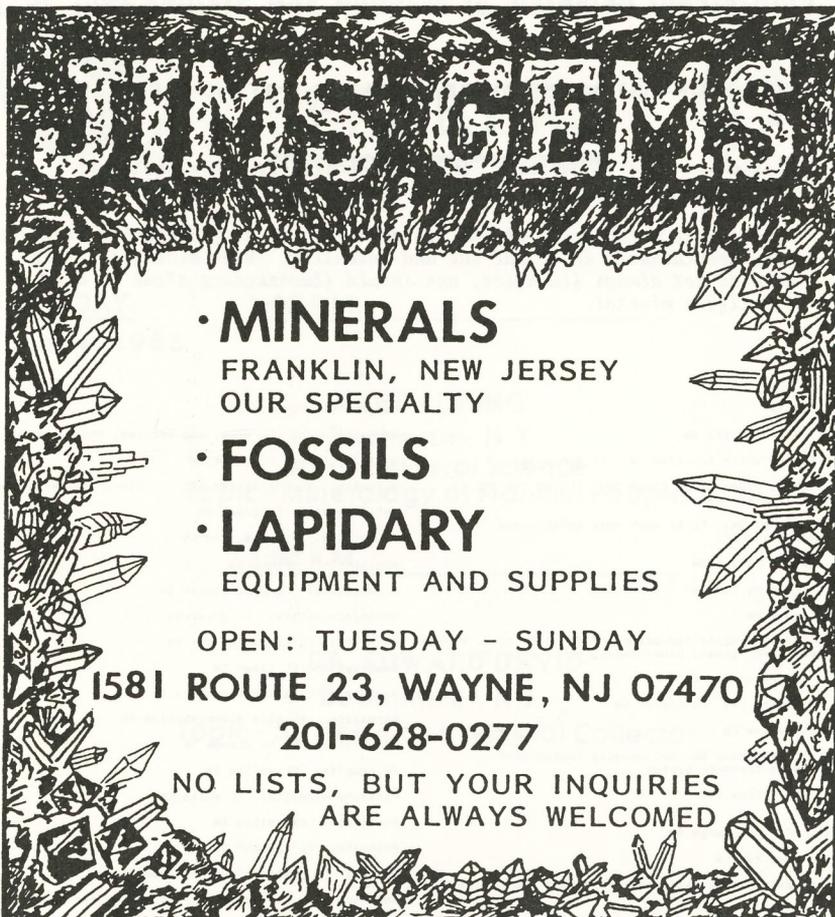
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Minerals Unique To Franklin and Sterling Hill

BAUMITE	$(\text{Mg}, \text{Mn}, \text{Fe}, \text{Zn})_3 (\text{Si}, \text{Al})_2 \text{O}_5 (\text{OH})_4$
BOSTWICKITE	$\text{CaMn}^{3+}_6 \text{Si}_3 \text{O}_{16} \cdot 7\text{H}_2\text{O}$
CHARLESITE	$\text{Ca}_6 (\text{Al}, \text{Si})_2 (\text{SO}_4)_2 [\text{B}(\text{OH})_4] (\text{OH})_{12} \cdot 26\text{H}_2\text{O}$
CHLOROPHOENICITE	$\text{Mn}_3 \text{Zn}_2 (\text{OH})_6 [\text{As}_{0.5} \text{H}_{0.5} (\text{O}, \text{OH})_3]_2$
ESPERITE	$(\text{Ca}, \text{Pb}) \text{ZnSiO}_4$
GERSTMANNITE	$(\text{Mg}, \text{Mn})_2 \text{ZnSiO}_4 (\text{OH})_2$
HANCOCKITE	$(\text{Pb}, \text{Ca}, \text{Sr})_2 (\text{Al}, \text{Fe}^{3+})_3 (\text{SiO}_4)_3 (\text{OH})$
HARDYSTONITE	$\text{Ca}_2 \text{ZnSi}_2 \text{O}_7$
HAUCKITE	$(\text{Mn}, \text{Mg})_{24} \text{Zn}_{18} \text{Fe}^{3+}_3 (\text{SO}_4)_4 (\text{CO}_3)_2 (\text{OH})_{81}$
HENDRICKSITE	$\text{K} (\text{Zn}, \text{Mg})_3 \text{Si}_3 \text{AlO}_{10} (\text{OH})_2$
HODGKINSONITE	$\text{Zn}_2 \text{Mn} (\text{SiO}_4) (\text{OH})_2$
HOLDENITE	$(\text{Mn}, \text{Mg})_6 \text{Zn}_3 (\text{OH})_8 (\text{AsO}_4)_2 (\text{SiO}_4)$
JAROSEWICHITE	$\text{Mn}_2 \text{Mn}^{3+} (\text{AsO}_4) (\text{OH})_6$
JOHNBAUMITE	$\text{Ca}_5 (\text{AsO}_4)_3 (\text{OH})$
KITTATINNYITE	$\text{Ca}_4 \text{Mn}^{3+}_4 \text{Mn}^{2+}_2 \text{Si}_4 \text{O}_{16} (\text{OH})_8 \cdot 18\text{H}_2\text{O}$
KOLICITE	$\text{Mn}_7 \text{Zn}_4 (\text{AsO}_4)_2 (\text{SiO}_4)_2 (\text{OH})_8$
KRAISSLITE	$\text{Fe}^{3+}_2 \text{Mg}_4 \text{Mn}_{44} \text{Zn}_6 (\text{AsO}_4)_6 (\text{AsO}_3)_4 (\text{SiO}_4)_{12} (\text{OH})_{36}$
LAWSONBAUERITE	$(\text{Mn}, \text{Mg})_9 \text{Zn}_4 (\text{SO}_4)_2 (\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
LENNILENAPEITE	$\text{K}_{6-7} (\text{Mg}, \text{Mn}, \text{Zn}, \text{Fe})_{48} (\text{Si}, \text{Al})_{72} (\text{O}, \text{OH})_{216} \cdot 16\text{H}_2\text{O}$
LOSEYITE	$(\text{Mn}, \text{Mg})_4 \text{Zn}_3 (\text{CO}_3)_2 (\text{OH})_{10}$
MAGNESIUM-CHLOROPHOENICITE	$(\text{Mg}, \text{Mn})_3 \text{Zn}_2 (\text{OH})_6 [\text{As}_{0.5} \text{H}_{0.5} (\text{O}, \text{OH})_3]_2$
MARSTURITE	$\text{Mn}_3 \text{CaNaHSi}_5 \text{O}_{15}$
MCGOVERNITE	Complex $\text{Mg}, \text{Mn}, \text{Zn}, \text{Fe}^{3+}$ arsenosilicate
MINEHILLITE	$\text{K}_{2-3} \text{Ca}_{28} [\text{Zn}_4 \text{Al}_4 \text{Si}_{40} \text{O}_{112} (\text{OH})_4] (\text{OH})_{12}$
MOOREITE	$\text{Mg}_9 \text{Mn}_2 \text{Zn}_4 (\text{SO}_4)_2 (\text{OH})_{26} \cdot 8\text{H}_2\text{O}$
NELENITE	$\text{Mn}_{16} \text{Si}_{12} \text{O}_{30} (\text{OH})_{14} [\text{As}^{3+}_3 \text{O}_6 (\text{OH})_3]$
RETZIAN - (La)	$\text{Mn}_2 \text{La} (\text{AsO}_4) (\text{OH})_4$
RETZIAN - (Nd)	$\text{Mn}_2 \text{Nd} (\text{AsO}_4) (\text{OH})_4$
SCHALLERITE	$\text{Mn}_{16} \text{Si}_{12} \text{O}_{30} (\text{OH})_{14} [\text{As}^{3+}_3 \text{O}_6 (\text{OH})_3]$
STERLINGHILLITE	$\text{Mn}_3 (\text{AsO}_4)_2 \cdot 4\text{H}_2\text{O}$
TORREYITE	$(\text{Mg}, \text{Mn})_9 \text{Zn}_4 (\text{SO}_4)_2 (\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
WALLKILLDELLITE	$\text{Ca}_4 \text{Mn}^{2+}_6 \text{As}^{5+}_4 \text{O}_{16} (\text{OH})_8 \cdot 18\text{H}_2\text{O}$
YEATMANITE	$[\text{Mn}_5 \text{Sb}_2] [\text{Mn}_2 \text{Zn}_8 \text{Si}_4] \text{O}_{28}$



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Fluorescent Minerals of Franklin and Sterling Hill, N. J.

A 1986 CHECK-LIST BASED ON OBSERVATIONS BY RICHARD C. BOSTWICK

Glossary: FL = fluoresces; PH = phosphoresces; SW = shortwave ultraviolet radiation; LW = longwave ultra violet radiation

Fluorescent color descriptions are approximate, as fluorescent minerals vary considerably in actual hue and intensity. Many minerals listed here do not always fluoresce, nor should fluorescence alone be used to identify a mineral.

Albite: FL red SW	Margarite: FL blue SW
Apophyllite: FL, PH white SW	Margarosanite: FL blue, red SW/ red, cream, orange LW
Aragonite: FL, PH white to cream LW, (FL green SW)	Mcallisterite: FL cream SW
Barite: FL white, blue-white, cream SW; FL, PH tan SW, LW; (FL pale green LW)	Meionite: FL cherry-red SW, (FL pink, yellow-orange, yellow, cream SW)
Barylite: FL violet SW; FL is much more conspicuous under iron arc	Metalodevite: FL green SW
Bassanite: FL, PH violet SW	Microcline: FL blue, red SW
Bustamite: FL cherry red LW	Mimetite: FL orange SW
Cahnite: FL cream SW	Minehillite: FL pale violet SW
Calcite: FL red with brief red-orange PH SW; (FL pink, orange, cream, tan, green, blue-violet, etc., often PH)	Monohydrocalcite: FL green SW
Canavesite: FL, PH violet LW	Nasonite: FL cream, yellow SW
Celestite: FL cream LW; FL violet SW	Newberyite: FL cream SW
Cerussite: FL yellow LW	Oyelite: FL violet and white SW
Charlesite: FL pale blue SW, but usually coated with SW-LW cream-FL gypsum	Pargasite: FL pale greenish blue SW
Chondrodite: FL yellow SW	Pectolite: FL, PH orange SW
Clinohedrite: FL, PH orange SW	Phlogopite: FL yellow SW
Corundum: FL deep red LW	Picropharmacolite: FL white LW
Cuspidine: FL pale orange-yellow SW with brief red-orange PH	Powellite: FL yellow SW
Datolite: FL cream SW	Prehnite: FL "peach" SW
Diopside: FL blue SW/cream LW	Quartz: FL cream to yellow, green SW
Dypingite: FL, PH blue LW, SW	Roebingite: FL red with brief orange-red PH SW
Epsomite: FL cream LW	Scheelite: FL yellow SW
Esperrite: FL lemon-yellow SW	Smithsonite: FL, PH white SW; also reported to FL yellow, orange-yellow LW
Fluorborite: FL cream SW	Sphalerite: FL, PH orange, blue, yellowish orange LW, (FL yellow LW)
Fluorapatite: FL orange, blue SW	Svabite: FL orange SW
Fluorite: FL, PH green, blue-green LW, SW; FL violet LW	Talc: FL cream LW
Guerinite: FL white SW	Thomsonite: FL cream SW
Gypsum: FL pale blue, cream SW	Tilasite: FL yellow, pink-orange(?) SW
Hardystonite: FL deep bluish violet SW, LW	Titanite: FL tan, orange-tan SW
Hedyphane: FL orange, cream SW	Tremolite: FL blue SW, (FL yellow LW)
Hemimorphite: FL, PH white LW; (FL green SW)	Turneaureite: FL orange SW
Hodgkinsonite: FL deep red LW	Uranospinite: FL green SW
Hyalophane: FL red SW	Uvite: FL yellow SW
Hydrotalcite: FL cream LW	Willemite: FL, PH green SW, (FL, PH yellow, pale greenish yellow, yellow-orange SW)
Hydrozincite: FL blue SW	Wollastonite: FL orange SW, with brief red-orange PH, to FL yellow with longer yellow PH.
Johnbaumite: FL orange SW	Xonotlite: FL violet-blue SW
Magnesio-hornblende: FL pale greenish-blue SW	Zincite: FL yellow LW
Manganaxinite: FL red SW	Zircon: FL orange SW



SPEAKERS



SATURDAY:
October 4, 1986

1:00 P.M.

VANDAL KING
Rochester, N.Y.
Wards Mineral Science
Topic - Mineralogy of Franklin People

3:00 P.M.

DR. EDWARD DAVID
Bedminster, N.J.
Topic - 50 Years as a Mineral Collector

SUNDAY:
October 5, 1986

1:00 P.M.

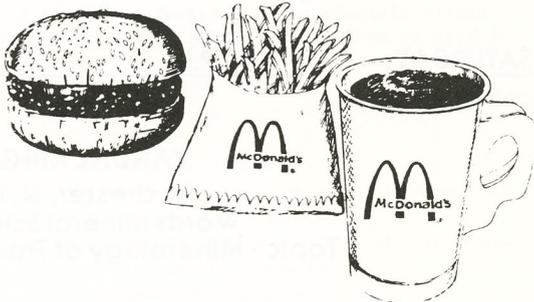
JACK BAUM
Topic - Franklin Observations by a Historian

with Video Micro-screening by Walter Zabinski



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FRANKLIN: Unique in Variety of Ores

Franklin Borough, "The Fluorescent Mineral Capital of the World" continues to excite the interest of mineral collectors, even though mining operations have ceased for over fifteen years. The opportunities to view and perhaps discover new mineral specimens unique to this area continue to attract an even greater stream of visitors to these exhibits (during 1976 two new minerals were recorded).

More than 250 species and more than 280 varieties have been found in the Franklin/Ogdensburg area, the greatest variety ever discovered in one place. As of 1976, twenty-one of these minerals have been found nowhere else in the world.

The wealth of mineral specimens at Franklin owes its abundance to a sequence of geological events never duplicated elsewhere. A billion years ago an ocean covered the area, and in quiet deep spots, iron, zinc and manganese accumulated and were incorporated into a thickening sequence of sediments and submarine lavas. Over 800 million years ago, depth of burial and folding transformed the rocks and their enclosed minerals into the layered materials we see today. Many of the rare minerals were formed during the first period of mountain building.

Subsequently, weathering of the new land down to sea level developed a beach at Franklin some 550 million years ago, and fragments of the newly exposed mineral deposit or ore body were incorporated in the beach sands. Again the land sank in the classic geologic pattern of submergence, deposition, uplift and erosion. Perhaps four periods of mountain building took place during repetitions of the sequence, each with an opportunity for deep fractures to allow introduction of new solutions and vapors to add to and alter the earlier minerals.

For the last 100 million years, the Franklin area has been undergoing erosion as the high ground of New Jersey has washed down the rivers and the coast to form Southern New Jersey and fairly recently, a million to 10,000 years ago, glaciation has aided the process exposing the ore bodies for discovery and mining. Meanwhile, minerals continue to form where weathering can alter the older minerals. The story is far from completed, and new minerals are being discovered continually.

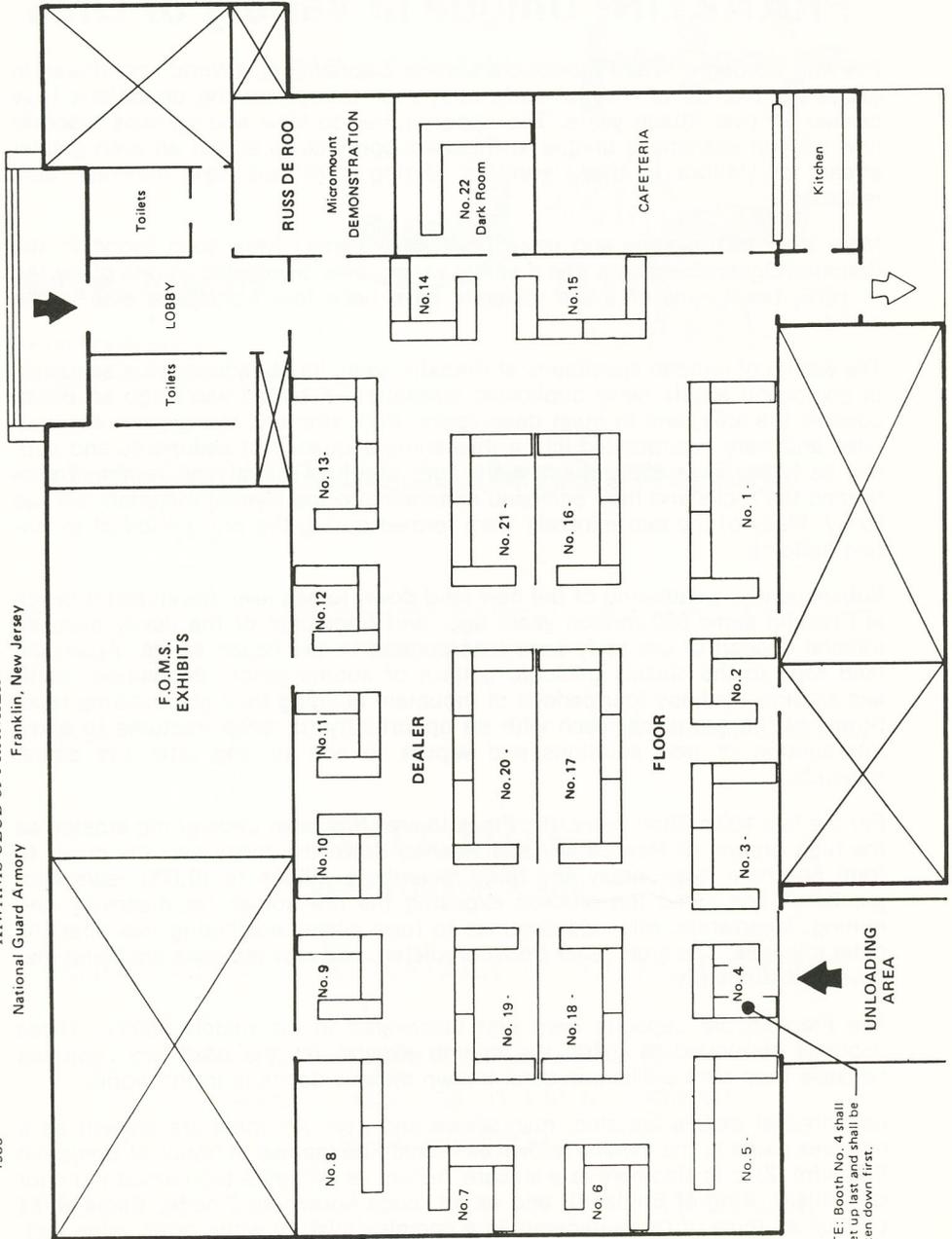
The Franklin ore deposits were first discovered in the middle 1600's. These deposits continued to baffle the mining experts for the next two centuries because they were unlike any other known mineral deposits in the world.

Its principal metals are zinc, manganese and iron. All three are present as a complex oxide in the mineral known as Franklinite (named in honor of Benjamin Franklin). Zinc is also here as a silicate, known as Willimite (so named in honor of William, King of England), and as an oxide known as Zincite. Some veins contain all three of these minerals in a complex mixture while other veins consist of the three minerals in almost their pure form. The ore body is also quite unique in that it is relatively free from other heavy metals such as lead, cadmium and copper which are usually found in zinc ore deposits.

FRANKLIN-STERLING HILL MINERAL SHOW
 KIWANIS CLUB of FRANKLIN
 Franklin, New Jersey
 National Guard Armory

1983

MAIN ENTRANCE



NOTE: Booth No. 4 shall be set up last and shall be broken down first.

Scale: 1/16" = 1'-0" Drill Floor 60' X 120'

BUS PICK-UPS

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16. VICTOR YOUNT, RT. 5, Box 188, Warrenton, Virginia 22186
17. MARTIN'S MINERALS, P.O. Box 392, Millersburg, Pa. 17061
18. THE LESNICKS, 8405 Rawhide Tr., Tuscon, Arizona 85715
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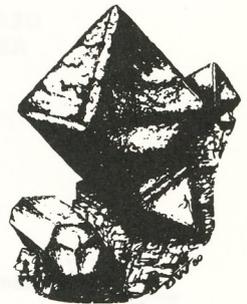
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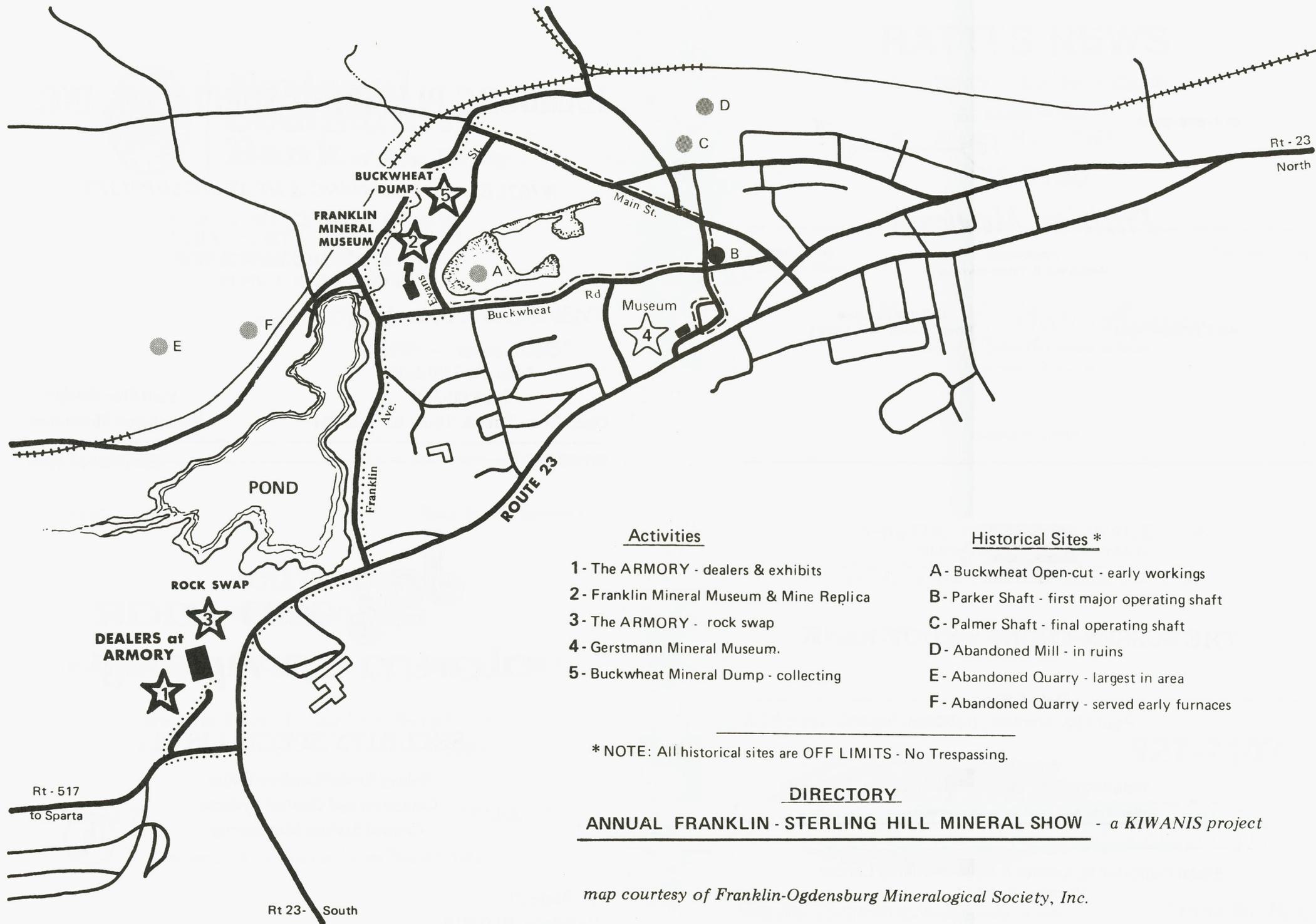
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- 3- The ARMORY - rock swap
- 4- Gerstmann Mineral Museum.
- 5- Buckwheat Mineral Dump - collecting

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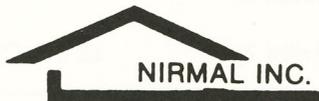
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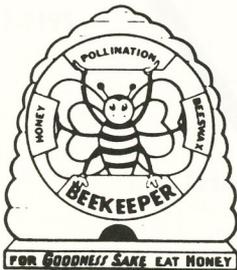
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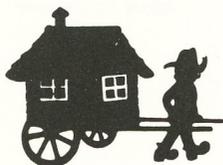
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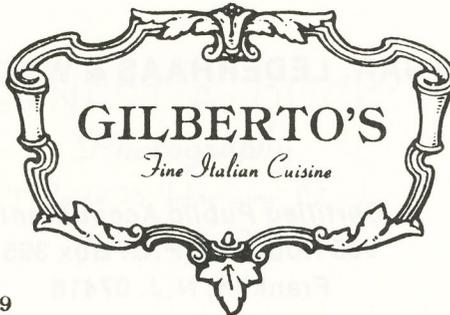
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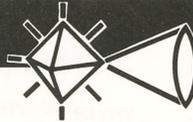
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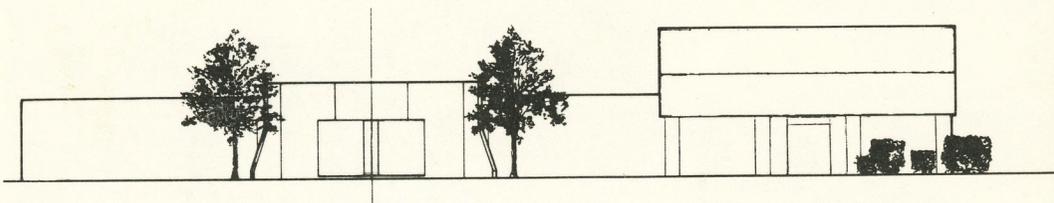
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- *In short to make the Museum a focus for the preservation and understanding of our unique heritage.*

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