

26th ANNUAL

Franklin - Sterling

MINERAL EXHIBIT

The Fluorescent Mineral Capitol of the World

Sat. & Sun., October 2nd & 3rd, 1982



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Our 1982 Mineral Weekend Booklet
is dedicated to:

DONALD "Don" McKECHNIE

1895-1982

Donald McKechnie retired from the New Jersey Zinc Company on December 31, 1962, after a mining career of more than forty years.

Don was the Zinc Company Superintendent of Mines and regarded as a key person in the company's operations. In addition to his contribution to the company, he was also regarded as one of the leading citizens of his community. Included in his activities were: Service on the Franklin Borough Council for two terms; four terms on the Board of Education of Franklin, including being President of the School Board for two terms; two terms on the Executive Committee of the State Federated Boards of Education; member of the New Jersey Chamber of Commerce; officer and member of the Board of Trustees of the Franklin Hospital; member of the Executive Committee for the Sussex Trust Company; director of the Wallkill Country Club; director of the Newton Country Club; member of the Sussex County Peace Officers; member of the Sussex County Field Trail Club; member of the Branchville Business Men's Club. He served in World War I and was a Second Lieutenant on his discharge in 1917.

With due respect for all his other accomplishments, we, in the Franklin Kiwanis, remember him as a charter member of our club. His leadership and personal efforts resulted in the mine replica being built for our first "Mineral Weekend" and the replica is still an important part of our weekend and our museum. He was President of the Kiwanis Club of Franklin in 1954-1955. His contributions to the club remain as part of our policies and part of our pride in being a "Franklin Kiwanian".

At his retirement dinner, Don was described as "everybody's friend". We Franklin Kiwanians regard him as a special friend of Kiwanis and the Franklin Mineral Museum. His death during the past year leaves a void which, for many of us, will be filled only by memories of his generosity and accomplishments.

The FRANKLIN - STERLING HILL MINERALS

Edited from numerous sources by John L. Baum, Curator of the Franklin Mineral Museum, May, 1982, following the nomenclature of the 1980 Glossary of Mineral Species, and with special thanks to Pete J. Dunn.

Acanthite	Cahnite	Forsterite
Acmite	Calcite	Franklinite
Actinolite	Caryopilite	Friedelite
Adamite	Celestite	
Adelite	Celsian	Gageite
Akrochordite	Cerussite	Gahnite
Albite	Chabazite	Galena
Allactite	Chalcocite	Ganomalite
Allanite	Chalcophanite	Ganophyllite
Alleghanyite	Chalcopyrite	Gersdorffite
Almandine	Chlorophoenicite	Gerstmannite
Analcime	Chondrodite	Glaucochroite
Anatase	Chrysocolla	Goethite
Andradite	Chrysotile	Gold
Anglesite	Clinochlore	Goldmanite
Anhydrite	Clinochrysotile	Graphite
Annabergite	Clinohedrite	Greenockite
Anorthite	Clinozoisite	Grossular
Anorthoclase	Conichalcite	Groutite
* Anthophyllite	Connellite	Grovesite
Antigorite	Copper	Guerinite
Apophyllite	Corundum	Gypsum
Aragonite	Covellite	
Arsenic	Cryptomelane	* Halloysite
Arsenopyrite	Cuprite	Hancockite
Augite	* Cuspidine	Hardystonite
Aurichalcite		Hastingsite
Austinite	Datolite	Hauckite
Azurite	Descloizite	Hausmannite
	Devilline	Hawleyite
Bannisterite	Diopside	Hedenbergite
Barite	Djurleite	Hedyphane
Barium-pharmacosiderite	Dolomite	Hematite
Barylite	Dravite	Hemimorphite
Barysilite	Dypingite	Hendricksite
Bassanite		Hercynite
Baumite	Edenite	Hetaerolite
Bementite	Epidote	Heulandite
Berthierite	Epsomite	Hexahydrite
Biotite	Erythrite	Hodgkinsonite
Birnessite	Esperite	Holdenite
Bornite	Eveite	Hornblende
Brandtite		Huebnerite
Brochantite	Fayalite	Humite
Brookite	Feitnechtite	Hyalophane
Brucite	* Ferroaxinite	Hydrohetaerolite
Brunsvigite	Flinkite	* Hydromica
Bultfonteinite	Fluoborite	Hydrotalcite
Bustamite	Fluorapatite	Hydrozincite
	Fluorite	
		* Illite
		Ilmenite



Jacobsite	Ogdensburgite	Starkeyite
Jarosewichite	Ojuelaite	Sterlinghillite
Jerrygibbsite	Orthoclase	*Stibnite
Johannsenite	*Oyelite	Stilbite
Johnbaumite		Stilpnomelane
	Pararammelsbergite	Strontianite
Kaolinite	Parasymplesite	Sussexite
* Kentrolite	Pargasite	Svabite
Koettigite	Pectolite	Synadelphite
Kolicite	Pharmacosiderite	
Kraisslite	Phlogopite	Talc
Kutnohorite	Picropharmacolite	*Talmessite
	Pimelite	Tennantite
Larsenite	Powellite	Tephroite
Lawsonbauerite	Prehnite	Thomsonite
Lead	Pumpellyite	*Thorite
Legrandite	Pyrite	Thortveitite
Leucophoenicite	Pyroaurite	Tilasite
Linarite	Pyrobelonite	Tirodite
Loellingite	Pyrochroite	Titanite
Loseyite	* Pyromorphite	Todorokite
	Pyroxmangite	Torreyite
Magnesioriebeckite	Pyrrhotite	Tremolite
Magnesium-chlorophoenicite		
Magnetite	Quartz	Uraninite
Magnussonite		Uranophane
Malachite	Rammelsbergite	Uranospinite
Manganaxinite	Realgar	Uvite
Manganberzeliite	Retzian - (Nd)	
Manganese-hoernesite	Rhodochrosite	
Manganosite	Rhodonite	Vesuvianite
Manganpyrosomalite	Richterite	
Marcasite	Riebeckite	Willemite
Margarite	Roebingite	Wollastonite
Margarosanite	Romeite	Woodruffite
Marialite	* Rosasite	Wurtzite
Marsturite	Roweite	
Mcallisterite	Rutile	Xonotlite
Mcgovernite		
* Melanterite	Safflorite	Yeatmanite
Metalodevite	Sarkinite	Yukonite
Microcline	Sauconite	
Mimetite	Schallerite	Zinalsite
Molybdenite	Scheelite	Zincite
Monohydrocalcite	Scorodite	Zinkenite
Mooreite	* Sepiolite	Zircon
Muscovite	Serpierite	
	Siderite	
Nasonite	Sillimanite	Total = 286 species.
Natrolite	Silver	
Neotocite	Sjögrenite	
Newberyite	Skutterudite	
Nickeline	Smithsonite	
Nontronite	Sonolite	
Norbergite	Spessartine	
	Sphalerite	
	Spinel	

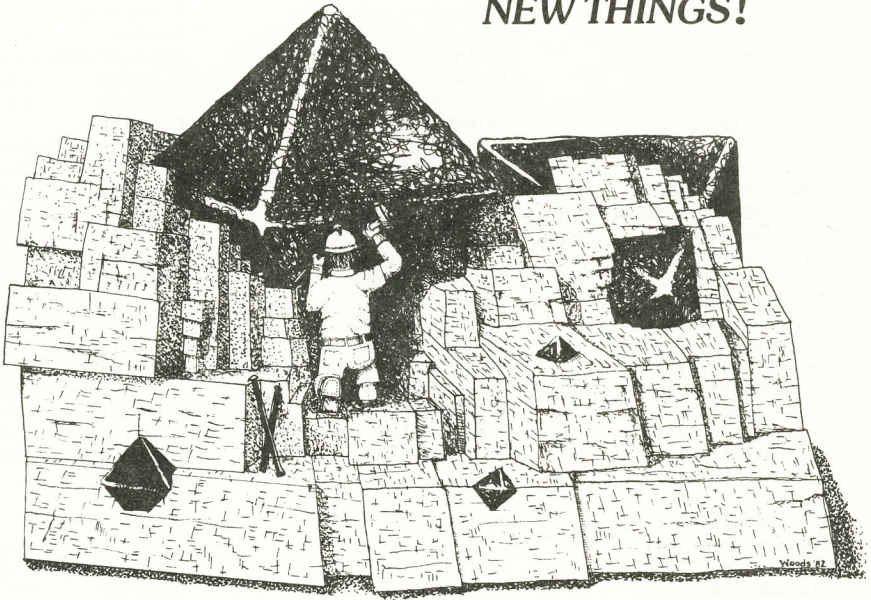
* = reported but not confirmed with certainty.



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

A 1982 CHECK-LIST BASED ON OBSERVATIONS BY RICHARD C. BOSTWICK

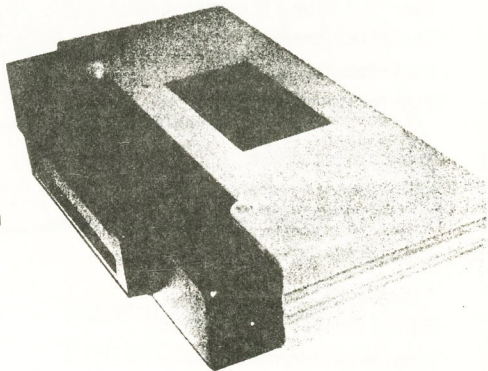
*The fluorescence of most local minerals is brightest under short wave ultraviolet light (SW). Species marked with an *asterisk fluoresce brighter under long wave ultraviolet light (LW) Certain minerals fluoresce two colors under different wave-lengths; these are noted as follows: blue SW/cream LW. Unusual or rare fluorescent responses are listed in parentheses.*

- | | |
|---|---|
| *Aragonite: white to cream, (green SW) | Margarite: blue |
| Barite: white, blue-white, cream, tan,
(pale green LW) | Margarosanite: blue, red SW/red,
cream, orange LW |
| Barylite: pale blue | Marialite: red, (pink, yellow-orange,
yellow, cream) |
| *Bustamite: red | Microcline: blue, red |
| Cahnite: cream | Mimetite: orange |
| Calcite: red, (pink, orange, cream, tan,
green, blue-violet, etc.) | Monohydrocalcite: green |
| *Celestite: cream | Norbergite: yellow |
| *Cerussite: yellow | Oyelite: violet and white |
| Chondrodite: yellow | Pectolite: orange |
| Clinohedrite: orange | Phlogopite: yellow |
| *Corundum: red | *Picroparmacolite: white |
| Diopside: blue SW/cream LW | Powellite: yellow |
| *Dypingite: blue | Prehnite: "peach" |
| Edenite: blue, greenish-blue | Scheelite: Yellow - Red |
| *Epsomite: cream | *Smithsonite: yellow, orange-yellow |
| Esperite: lemon-yellow | *Sphalerite: orange, golden orange,
blue, yellow |
| *Ettringite: pale blue, but coated
with cream-fl. gypsum | Svabite: orange |
| Fluorborite: cream | *Talc: cream |
| Fluorapatite: orange, blue | Thomsonite: cream |
| *Fluorite: green, blue-green, violet | Tilasite: yellow, pink-orange (?) |
| Guerinite: white | Titanite: tan, orange-tan |
| Gypsum: pale blue | Tremolite: blue, (yellow LW) |
| Hardystonite: violet-blue | Uranospinite: green |
| Hedyphane: orange, cream | Uvite: yellow |
| *Hemimorphite: white, (green SW) | Willemite: green, (pale greenish
yellow to orange) |
| *Hodgkinsonite: red | Wollastonite: orange to yellow |
| Hyalophane: red | Xonotlite: blue |
| *Hydroalcite: cream | *Zincite: yellow |
| Hydrozincite: blue | Zircon: orange |
| Johnbaumite: orange | |
| Manganaxinite: red | |

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BAUMITE	$(\text{Mg}, \text{Mn}, \text{Fe}, \text{Zn})_3(\text{Si}, \text{Al})_2\text{O}_5(\text{OH})_4$
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	$\text{Mn}_3\text{Mn}^{3+}(\text{AsO}_4)(\text{OH})_6$
JERRYGIBBSITE	$\text{Mn}_9(\text{SiO}_4)_4(\text{OH})_2$
JOHNBAUMITE	$\text{Ca}_5(\text{AsO}_4)_3(\text{OH})$
KOLICITE	$\text{Mn}_7\text{Zn}_4(\text{AsO}_4)_2(\text{SiO}_4)_2(\text{OH})_8$
KRAISSLITE	$\text{Fe}_2^{3+}\text{Mg}_4\text{Mn}_{44}\text{Zn}_6(\text{AsO}_4)_6(\text{AsO}_3)_4(\text{SiO}_4)_{12}(\text{OH})_{36}$
LAWSONBAUERITE	$(\text{Mn}, \text{Mg})_5\text{Zn}_2(\text{SO}_4)(\text{OH})_{12} \cdot 4\text{H}_2\text{O}$
LEUCOPHOENICITE	$\text{Mn}_7(\text{SiO}_4)_3(\text{OH})_2$
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	a complex Mg, Mn, Zn, Fe, As ³⁺ , As ⁵⁺ , Si, (OH) compound.
MOOREITE	$\text{Mn}_{16}\text{Si}_{12}\text{O}_{30}(\text{OH})_{14}[\text{As}_3^{3+}\text{O}_6(\text{OH})_3]$
OGDENSBURGITE	$\text{Ca}_3\text{ZnFe}_6^{3+}(\text{AsO}_4)_5(\text{OH})_{11} \cdot 5\text{H}_2\text{O}$
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	$(\text{Mg}, \text{Mn})_5\text{Zn}_2(\text{SO}_4)(\text{OH})_{12} \cdot 4\text{H}_2\text{O}$
YEATMANITE	$[\text{Mn}_5\text{Sb}_2][\text{Mn}_2\text{Zn}_8\text{Si}_4]_{28}$

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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.

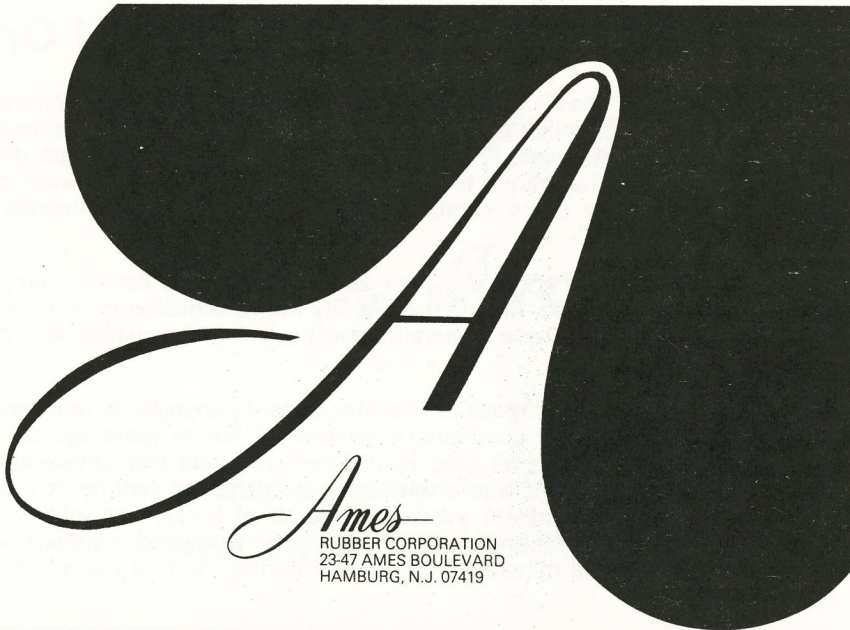
The wealth of mineral specimens at Franklin owes its abundance to a sequence of geological events never duplicated elsewhere. A billion years ago an ocean covered the area, and in quiet deep spots, iron, zinc and manganese accumulated and were incorporated into a thickening sequence of sediments and 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.



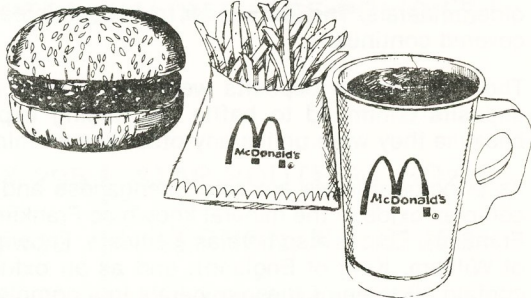
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Exhibits courtesy of the Franklin-Ogdensburg Mineralogical Society, Inc.
John Cianciulli - Exhibits Chairman



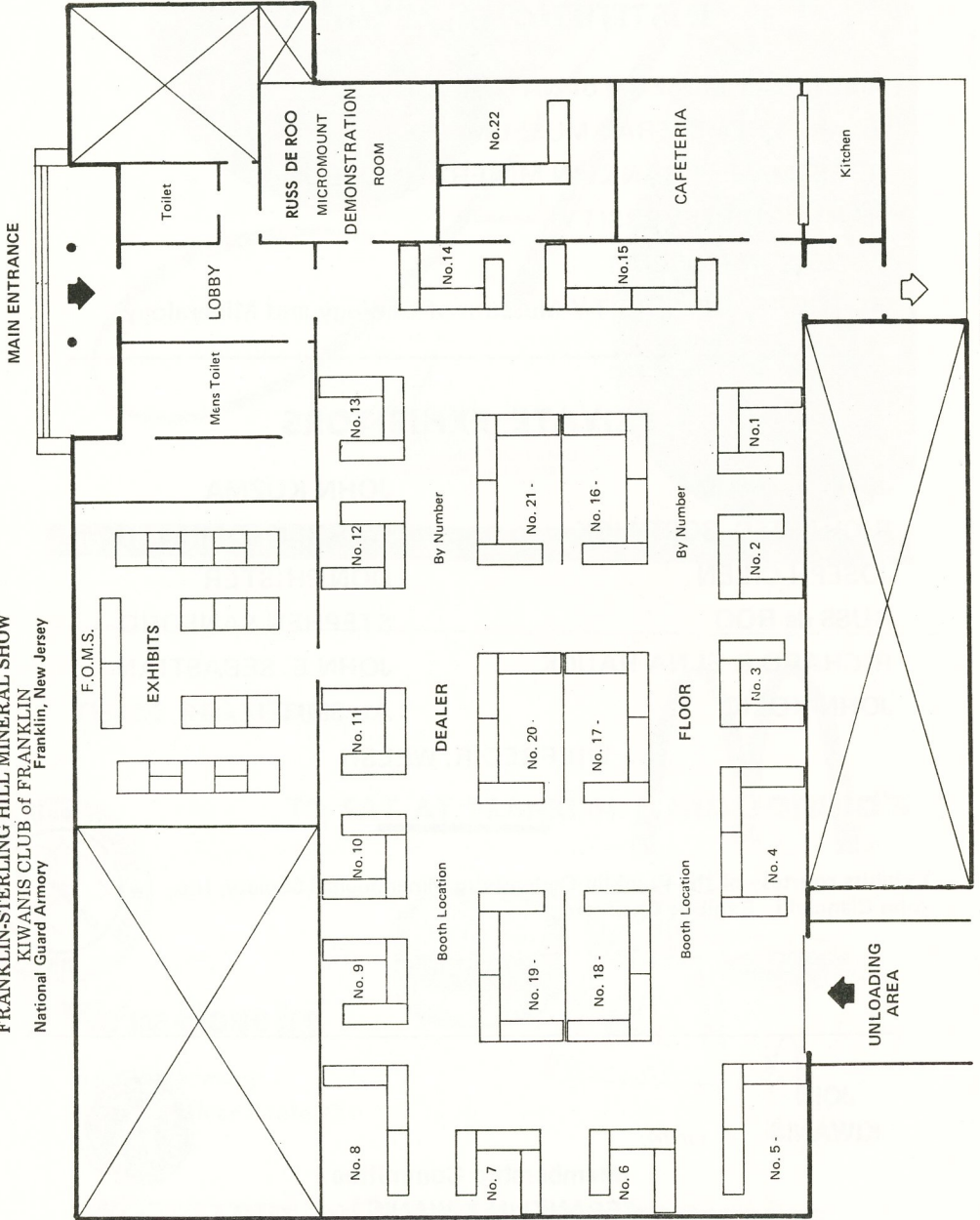
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**Membership Committee
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FRANKLIN-STERLING HILL MINERAL SHOW
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MEN OF WALLKILL VALLEY:

The Kiwanis Club of Franklin is seeking men who wish to be active in community projects that will add to the enjoyment of being in Sussex County, particularly the Wallkill Valley.

For over a quarter of a century, Franklin Kiwanians have sponsored scouting organizations; aided the elderly; given strength to the weak; encouraged the academic development of the young; have given physical support to agencies such as hospitals; and have always sought ways to have all people appreciate the freedom and advantages in living within the boundaries of the United States of America.

The development of the Franklin Mineral Museum, from an idea to an institution, with somewhere between \$250,000 and \$500,000 and which is known world wide for its collections and research, has been a major achievement of our club. The museum will continue to attract thousands of school children and students from such educational centers as West Point, Lehigh University, University of Pennsylvania, Smithsonian Institute and other people from Europe and Asia as well as from every state in our country.

This next year will see the Kiwanis Club of Franklin pay the final payment of the mortgage on the Franklin Museum and insure, through proper management and support, the continuation of our famous local institutions.

With the mortgage paid off, the Franklin Kiwanians will be developing projects for our four town service area. We will need ideas, we will look for challenges and we will need members who have ideas and would like to help us meet the new challenges.

If you desire to contribute to the general good and welfare of Franklin, Hamburg, Hardyston, Ogdensburg and surrounding areas, we encourage you to drop a note to:

Membership Committee
Franklin Kiwanis
Box 76
Franklin, N. J. 07416



SPEAKER PROGRAM

Saturday: October 2, 1982

1:00 P.M. Pete J. Dunn, Department of Mineral Sciences,
Smithsonian Institution, Washington, DC
"Franklin-Chemistry : Little Crystals"

3:00 P.M. Alice L. Kraissl, Hackensack, NJ
"Micro-Minerals of Franklin and Sterling Hill"

Sunday: October 3, 1982

1:00 P.M. Dr. Warren E. Miller, Spex Industries, Metuchen, NJ
"Fluorescent Minerals of Franklin and Sterling Hill"



*Speaker program courtesy of
the Franklin-Ogdensburg Mineralogical Society, Inc.*

MICROMOUNT DEMONSTRATION

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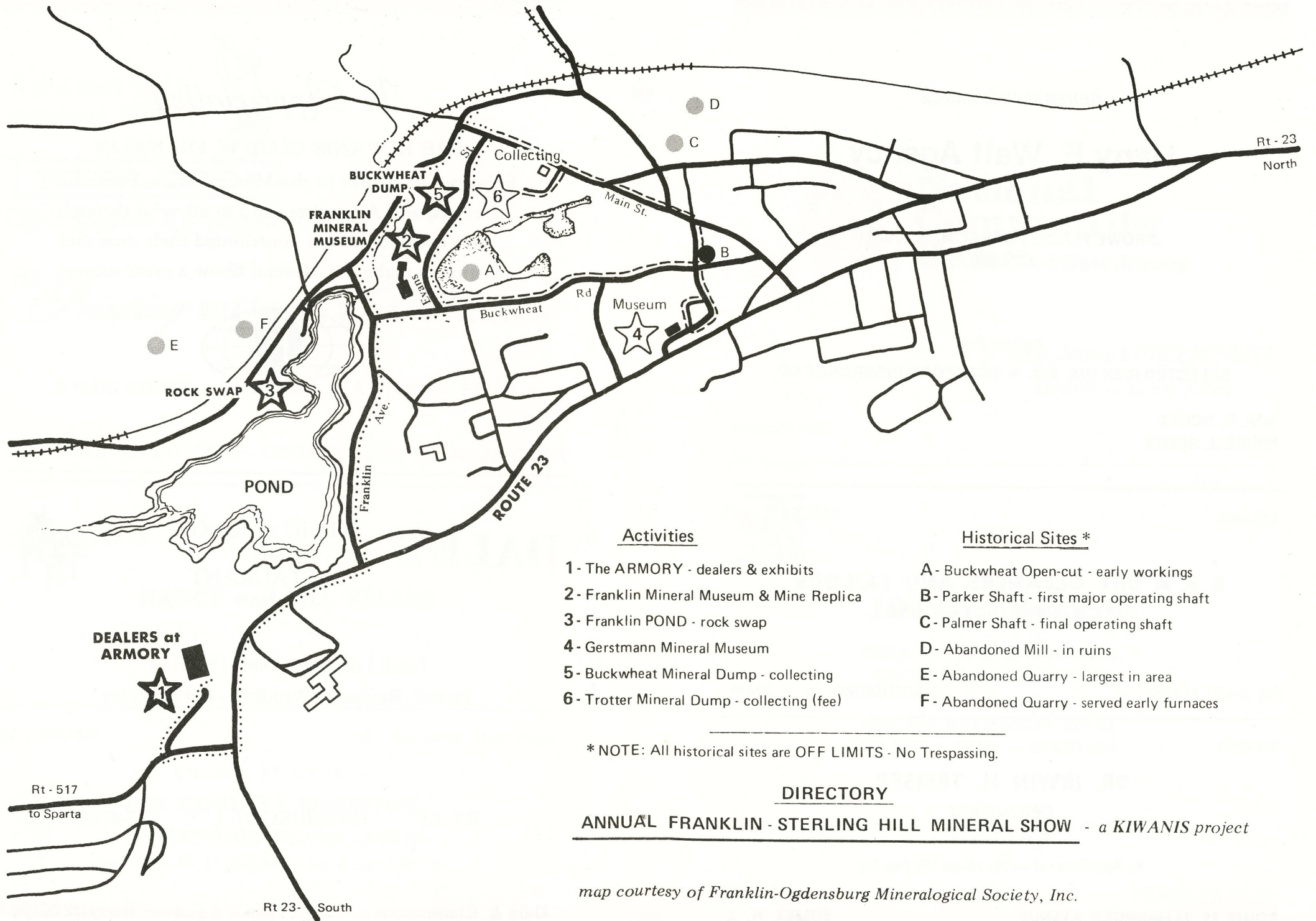
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Activities

- 1 - The ARMORY - dealers & exhibits
- 2 - Franklin Mineral Museum & Mine Replica
- 3 - Franklin POND - rock swap
- 4 - Gerstmann Mineral Museum
- 5 - Buckwheat Mineral Dump - collecting
- 6 - Trotter Mineral Dump - collecting (fee)

Historical Sites *

- A - Buckwheat Open-cut - early workings
- B - Parker Shaft - first major operating shaft
- C - Palmer Shaft - final operating shaft
- D - Abandoned Mill - in ruins
- E - Abandoned Quarry - largest in area
- F - Abandoned Quarry - served early furnaces

* NOTE: All historical sites are OFF LIMITS - No Trespassing.

DIRECTORY

ANNUAL FRANKLIN - STERLING HILL MINERAL SHOW - a KIWANIS project

map courtesy of Franklin-Ogdensburg Mineralogical Society, Inc.

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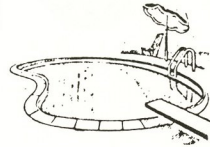
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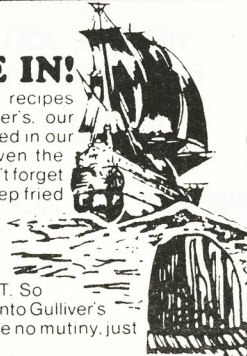
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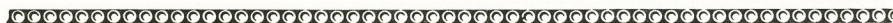
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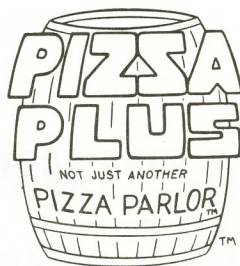


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HISTORY OF THE FRANKLIN KIWANIS FRANKLIN-STERLING MINERAL EXHIBIT

In 1957 the Board of Directors of the Franklin Kiwanis Club, after extensive deliberation, authorized a mineral show as an official fund raising project. Permission was obtained to use the Neighborhood House and the Boro Council further approved the operation of the Buckwheat Mineral Dump by the Kiwanis Club for the two days of the show. Members canvassed the townspeople for old dining room china cabinets and any other furniture suitable for the display of minerals. Local mineral collectors were asked to display their prize possessions. The lack of knowledge on how to conduct a mineral show was offset by the enthusiasm of the club members and townspeople. Even a light snowstorm on the final day of the show failed to dampen the spirits. The show was pronounced a great success by all who participated, and the club immediately decided that it should become an annual affair. At this point it was all too evident that standardized display cases would be a necessity for any future shows. A Committee was set up to work on this project. After much discussion a simple but adequate design was evolved and as the date of the second show drew near, club members met in a basement workshop and mass produced plywood parts for two dozen cases. These were assembled, glass covers attached, fluorescent fixtures installed, and on the eve of the second annual show a coat of stain was applied. The excellence of design and construction are attested to by the more than twelve years these cases have been in use. The second show drew a larger crowd than the first, but due to the cost of materials for the cases, the profit was small.

The Exhibit became too large for the Neighborhood House and in 1959 it was decided that the Franklin Armory was the most suitable location and appropriate arrangements were made.

Also, in 1959 the Replica Mine was erected at its present location with enlargements and improvements being made each year. For four successive years the popularity of the show increased.

After the 1963 show, sufficient funds were on hand to undertake the erection of a Mineral Museum. Plans were made, mortgage money obtained and the construction contract was let. Unfortunately, delays in construction prevented the Museum from being completed in time for the 1964 show.

Each year a bigger and better show has had the Armory bursting at its seams and in 1968 the traffic congestion was so bad that plans were made for the 1969 show to have a central parking and free shuttle bus service to the various places included in the exhibit. This feature proved so popular that it is to be expanded.

MINING AT FRANKLIN AND STERLING HILL — SYNOPSIS

Clarence Haight, *former Mine Superintendent*

A mine is mysterious to many people because it cannot be seen in its entirety. If the Franklin mine was inverted and placed on the surface, it would require a building about a mile long, five hundred feet wide and one thousand feet at its peak to enclose it.

The "floors" are known as levels, and they are fifty or one hundred feet apart rather than the eight — ten feet of office buildings. There were eighteen levels at Franklin and twenty-five at Sterling Hill. The levels are connected by shafts containing the mining version of elevators for men and materials as well as wate and air pipes, and phone and electric cables.

The hallways from the elevators to the working areas were tunnels, called drifts. Tram cars were frequently operated in the drifts to haul materials and men. The drifts are occasionally intersected by cross-cuts, which are tunnels extending from the footwall to the hanging wall to provide access, remove broken ore, etc. (If drifts were the avenues, cross-cuts were the streets.)

Ore bodies do not occur in rectangular blocks as buildings do. The outerlimits of the ore bodies are usually at an angle with the horizontal. Standing within the ore body, the outer side of the body which would be above your head (has an acute angle with the horizontal) is the hanging wall; that which would be beneath your feet (forms an obtuse angle with the horizontal) is the footwall.

The method of mining is determined largely by the thickness and strength and attitude of the ore. At Sterling Hill, the long thin stringers of ore lend themselves to longitudinal stopes. Stopes are the working areas where the ore is being drilled, blasted and mined. At Sterling hill, they usually project upward at an angle, following the veins of ore. When the ore is thick, as at Franklin, it is usually mined by transverse stopes. Franklin was first mined by tunnels at fifty foot levels. After consolidation of the various mining companies, engineering studies led to mining by transverse stopes. In essence, this comprised removing ore in sections seventeen feet wide running from the foot wall to the hanging wall. Between each stope, a pillar was left. Each pillar was about thirty feet wide and ran from footwall to hanging wall (as much as 300 feet) and to the top of the mine (up to one thousand feet high).

When all the ore was removed except for the pillars, a system of top slicing was introduced to utilize the ore in the pillars. This comprised taking ten foot deep slices from the pillar, starting at the top of the pillar, across from footwall to hanging wall. In essence, a narrow opening of full height was first cut through the center of the drift to the hanging wall. The opening was then opened up to full (thirty feet) width from the far end and worked back to the original opening. As the load on the supports became too heavy, (at about ten foot intervals), the supports for the cleared area were blasted and the load above caved to minimize the load on the working area.

Franklin ore averaged about a ton for each seven cubic feet. Some twenty million tons of ore were removed at Franklin. The ore averaged 20% zinc. At Sterling Hill, the ore averaged about 17% zinc, with the probability that it may be higher in the future due to operational changes.

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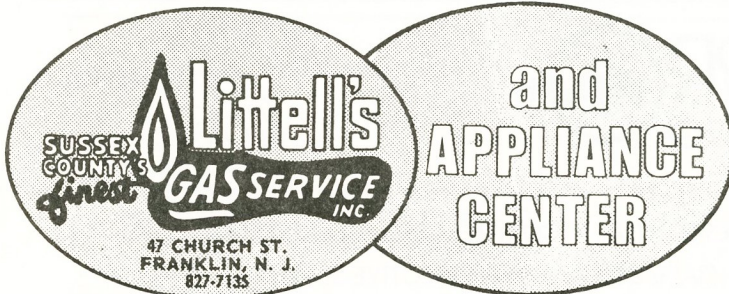
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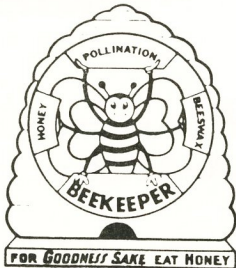
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