SIXTH ANNUAL
FRANKLIN-STERLING
MINERAL EXHIBIT

25c

Presented by the
FRANKLIN KIWANIS CLUB
Franklin, N. J.

OCTOBER 13-14, 1962
FRANKLIN KIWANIS CLUB
MINERAL EXHIBIT

Since the exhaustion of the historic ore body at Franklin and the closing of the world-famous New Jersey Zinc Company mine, mineral collectors have become interested in the rare mineral specimens of the Franklin area. Because it is apparent that these specimens will not be available to collectors for many more years, great interest has arisen in obtaining specimens before it is too late, and in preserving the historic minerals of the area.

In order to make this possible, the Franklin Kiwanis Club has established its annual Mineral Exhibit and replica mine and is actively engaged in a project to establish a permanent mineral museum at Franklin. The annual exhibit makes it possible to assemble specimens of the collections of local collectors in one place and the model replica mine preserves a sample of the working spaces typical of the Franklin mine. Thousands of interested persons have already viewed these exhibits and interest in them continue to increase each year.

The building permanently housing the replica mine has been improved each year so that it now represents an authentic duplicate of a typical working space in the abandoned mine. Most of the hundreds of unique minerals found at Franklin are represented in the collection made available through the mineral exhibit. Of additional interest is our display of fluorescent minerals with their brilliant and unusual coloring under ultra violet light.

Of a special interest to collectors is the opportunity to search for mineral specimens in the mineral dump. This dump provides the only source which will ever be available for finding these mineral specimens, many of which have been found nowhere but in Franklin.

It is the hope of the Franklin Kiwanis Club that the funds raised from these exhibits will make possible the establishment of a permanent mineral museum which will perpetuate the minerology of the Franklin area in a proper locale. Each year the exhibit and museum facilities will be enlarged and, as interest continues, it is expected that a fine permanent museum will be created at Franklin.
Franklin Unique in Variety of Ores

The Boro of Franklin’s history is based mainly on the unique ore deposits which occur in this area. The only other locality in the mineral world, comparable to Franklin, is an area in Sweden.

Franklin has gained world-wide fame in respect to the large number of minerals that are to be found here. There are in excess of 215 different mineral specimens that have been identified; of these 26 are to be found nowhere else in the world.

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 deposit in the world. Its principle 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 slicate, 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.

All attempts to get the Franklin orebody to yield its zinc were unsuccessful and it was not until 1852 that the first satisfactory method of smelting the ores was developed. Since that time, more modern methods of mining and milling have increased to the point where zinc and zinc products are used in almost every phase of modern manufacturing.

Franklin has in recent years become the mecca of the beginner and advanced rock collectors as well as mineralogist. The professional geologist also has a definite interest, in the diversification of minerals to be found in Franklin. Perhaps, one of the main factors of the popularity of Franklin with these rock-collectors is the fact that so many of these minerals are found on the surface of the ground, thus making it a simple matter for the collector to gather his specimens.

For the convenience of the rock collector a list of the minerals to be found in Franklin and a map locating points of interest have been compiled to add to the interest of all those visiting Franklin in search of additions for your collections.
FRANKLIN ARMORY — MAIN FLOOR AREA

Booth Locations by Numbers

1. Highlights — Minerals of Mexico
2. Lawrence Conklin
4. Conley's Rock & Gem Shop
5. John S. Albanese
   Darkroom — Ray Tek Equipment Co. — Fluorescent House
6. Specialty Minerals
7. World Wide Minerals
8. Russ DeRoo
9. Riviera Rock Shop
10. Irvington Lapidary
11. Boardwalk Rock & Shell Shop
12. McMullen's Minerals
13. The Silver Pick
14. Mineral Museum
15. Intercontinental Minerals
16. A & B Mineral Shop
17. Sy Schweitzer

Scan courtesy of the Franklin-Ogdensburg Mineralogical Society, www.FOMSNJ.org
Minerals of the Franklin-Sterling Area

Edited by John Baum

Albite
Allactite
Allanite
Amphibole
Actinolite
Cummingtonite
Edenite
Hornblende
Pargasite
Tremolite
Analcite
Anglesite
Anhydrite
Anorthite
Anorthoclase
Anthophyllite
Apatite
Apophyllite
Aragonite
Arsenic
Arsenonelite
Arsenopyrite
Aurichalite
Axinite
Azurite
Barite
Barylite
Barysilitie
Bementite
Biotite
Manganophyllite
Birnessite
Bornite
Brandlite
Brookite
Brucite
Bustamite
*Cahnite
Calcite
*Calcium-larsenite
Celestite
Cerussite
Chabazite
Chalcolite
*Chalcolpanicite
Chalcopyrite
Chlorite
Chloropar
*Chlorophoenicit
Chondrodite
*Clinohedrite
Copper
Corundum
Corellite
Cryptomelane
Cuprite

Cuspidine
Datolite
Botryolite
Desclazyrite
Dolomite
 Epidote
Epsomite
Erythrite
Ettringite
Fluorocarite
Fluorite
Forsterite
*Franklinite
Friedelite
*Gageite
Gahnite
Galena
Ganophyllite
Garnet
Andradite
Grassularite
Spessartite
Gesdorffite
*Glaucophane
Goethite
Gold
Graphite
Greenockite
Gypsum
Halloysite
*Hancockite
*Hardystonite
Hastingsite
Hausmannite
Hedyphane
Hematite
Hemimorphite
*Hetaerolite
Heulandite
Hexahydrite
*Hodgkinonite
*Holdenite
Hortonolite
Humite
Hyalophane
Hydrohaussmannite
Hydrohetaerolite
Hydrozincite
Idocrase
Cyprine
Illmenite
Johannsenite
Koolinite
Kentrolite

Kutnahorite
Kyanite
*Larsenite
Lead
*Leucophoenicit
Limonite
Loellingite
*Loseyite
*Mg.Cl.phoenicit
Magnetite
Magnussonite
Malachite
Manganberzelite
Manganite
Manganosite
Marcasite
Margarosanite
*McGovernite
Microcline
Millerite
Molybdenite
*Mooreite
Muscovite
Bariite
Hydrumuscovite
Pinite
Nasonite
Natrolite
Niccolite
Norbergite
Oligoclase
Orpiment
Orthoclase
Pararammelsbergite
Pectolite
Phlogopite
Powellite
Prehnite
Pyrite
Pyrochroite
Pyroalasite
Pyrophyllite
Pyrosmalite
Pyroxene
Aegirite
Diopside
Hedenbergite
*Jeffersonite
Schefferite
Pyrrhotite
Quartz
Agate
Chalcedony
Flint
Jasper
Milky

Rock Crystal
Rose
Smoky
Rammelsbergite
Realgar
Rhodochrosite
Rhodonite
Riebeckite
*Roeblingite
Roeppelette
*Roweite
Rutile
Sarkinite
Sauconite
Scapolite
*Schallerite
Serpentine
Antigorite
Chrysolite
Yorkosierite

Siderite
Sideritite
Siliemanite
Silver
Skutterudite
Smithsonite
Sphalerite
Sphene
Spinell
Stilbite
Stilnpermelane
*Sussexite
Svabite
Talc
Tennantite
Tephrine
Thorsonite
Thorite
Todorokite
*Torreyite
Tourmaline
Dravite
Schorl
Wad
Water
Willemite
Wollastonite
Woodruffite
Wurtzite
Xanotite
Yeatsanite
Zineline
Zincite
Zircon
Zoisite

*Found only at Franklin or Sterling
DUTTON HOTEL & MOTOR LODGE
88 ROOMS — MODERN TV — TELEPHONE — DINING ROOM
COFFEE SHOP — COCKTAIL LOUNGE — NEWS STAND ON PREMISES
Phone FO 6-3300 for Reservations
ROUTE 15 & SUSSEX STREET  DOVER, N. J.

FLUORESCENT FRANKLIN-STERLING MINERALS

<table>
<thead>
<tr>
<th>MINERAL</th>
<th>COLOR OF FLUORESCENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anorthite</td>
<td>Blue</td>
</tr>
<tr>
<td>Aragonite</td>
<td>Cream</td>
</tr>
<tr>
<td>Axinite</td>
<td>Red</td>
</tr>
<tr>
<td>Barite</td>
<td>Blue</td>
</tr>
<tr>
<td>Barylite</td>
<td>Blue</td>
</tr>
<tr>
<td>Calcite</td>
<td>Red</td>
</tr>
<tr>
<td>Calcium-larsenite</td>
<td>Yellow</td>
</tr>
<tr>
<td>Clinohedrite</td>
<td>Orange</td>
</tr>
<tr>
<td>Corundum</td>
<td>Red</td>
</tr>
<tr>
<td>Diopside</td>
<td>Blue</td>
</tr>
<tr>
<td>Fluorite</td>
<td>Green</td>
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<tr>
<td>Hardystonite</td>
<td>Purple</td>
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</tr>
<tr>
<td>Norbergite</td>
<td>Cream</td>
</tr>
<tr>
<td>Pectolite</td>
<td>Orange</td>
</tr>
<tr>
<td>Rhodonite-Bustamite</td>
<td>Red</td>
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<tr>
<td>Scapolite</td>
<td>Blue</td>
</tr>
<tr>
<td>Smithsonite</td>
<td>Yellow</td>
</tr>
<tr>
<td>Sphalerite</td>
<td>Red, Blue</td>
</tr>
<tr>
<td>Svakite</td>
<td>Red</td>
</tr>
<tr>
<td>Tremolite</td>
<td>Blue</td>
</tr>
<tr>
<td>Willemite</td>
<td>Green, Yellow</td>
</tr>
<tr>
<td>Wollastonite</td>
<td>Orange</td>
</tr>
</tbody>
</table>

STEPHENS CORNER SUNOCO SERVICE
ROUTE 23 — AT THE POND  FRANKLIN, N. J.
BORDENS ICE CREAM
FOR LOCATION: SEE No. 2 ON MAP
History of The Replica Mine

The Replica Mine was originally constructed by the New Jersey Zinc Co. When the Franklin mine was closed and the properties sold, the Zinc Co. gave the Replica to the Franklin Kiwanis Club with the proviso that it be moved to another location as the building which contained it was an integral part of the property sold.

In the hot summer of 1959, members of the Club started the demolition and moving. The Replica was two stories in height, and as time was short before the third annual Mineral Show in September, it was decided to reconstruct only the second level as this was the most interesting of the two.

Through the cooperation of the officials of Franklin Boro, a building was obtained in which to relocate the Mine Replica. The building available was superbly suited to the purpose both from a practical and historical standpoint. It was the original hoist engine house for the open cut mine. The building, though ancient, was of solid brick construction. Because it was of a different shape than that in which the Replica was first erected, it was necessary to make extensive modifications.

The Zinc Co. was generous in its donation of timbers, rails, wire and cables, drills and much other equipment used in the Franklin mining operation. Also, a quantity of ore and tailings were provided to give the replica an aura of subterranean authenticity.

At the conclusion of the Third Annual Mineral Exhibit, it was decided to rip out all the work done thus far and proceed with the erection of the replica in the original two story design. In order that the work be carried out expeditiously and as authoritatively as possible under the limitations prescribed by the physical structure of the building, the services of retired miners and mine construction workers were obtained. By the date of the Fourth Annual Mineral Show the two floor Replica was ready, even though all the plaster and paint was not thoroughly dry, and many Kiwanians had permanent kinks in their backs and calouses on their hands.

Essentially, this is the Mine Replica as it is today; although additional tunnels were created on the upper level preceding the Fifth Annual Show in 1961.

The Kiwanians who worked on this project derived great satisfaction when one visiting mining engineer commented that the Replica Mine was “The most realistic simulation of mining operations” that he had ever seen above ground.

FRANKLIN SWEET SHOPPE

A REFRESHING STOP — ANY TIME

Main Street

Franklin, N. J.

FOR LOCATION: SEE No. 6 ON MAP
FRANKLIN DINER
GOOD FOOD — FAST SERVICE
7 A.M. to 2 A.M.
FOR LOCATION: SEE No. 9 ON MAP

EXHIBITORS

John Baum  
Richard Hauck  
Fred Cumingham  
Sunny Cook  
William Spencer  
Harry Senchik  
Al Smith  
Norman Morris  

Charles Davidowsky  
Estate of Martin Gabor  
Morris Kopans  
Clarence McEntee  
Louis Sebo  
John Albanese  
Edward Solens  
Arthur Horr

BROWN’S HOTEL & BAR
Accommodations by Day or Week
STOP AND SEE RUTH AND MARTY
ACROSS FROM THE MINERAL DUMP
24 Church Street  
FOR LOCATION: SEE No. 8 ON MAP  
Franklin, N. J.
Viebrock's Motel
Route 26 South of Newton

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Cheery, Comfortable Rooms
Air Conditioned — TV
Room Phones — Lounge
Continental Breakfast
WELCOME ROCK HOUNDS
Make your reservations early.
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FRANKLIN PETROLEUM PRODUCTS CO., INC.
FUEL OIL
GASOLINE
Home Burner Service
Corner High St. & Route 23
VAndyk 7-7660
For Location: See No. 10 on Map

THE FRANKLIN KIWANIS CLUB

wants to express its appreciation to
the exhibitors, dealers and friends
whose continued help, co-operation
and interest made this exhibit possible.

It is our hope that we will continue
to merit your efforts for future exhibits.

We urge you to patronize the advertisers who made this booklet possible.

Minisink Press, Inc.