13th ANNUAL
FRANKLIN - STERLING

MINERAL EXHIBIT

The Fluorescent Mineral Capital of the World

October 11th & 12th, 1969

SPONSORED BY
KIWANIS CLUB OF FRANKLIN
FRANKLIN, NEW JERSEY
THE FRANKLIN MINERAL MUSEUM
and MINE REPLICA

SEE THE WORLD FAMOUS FRANKLIN MINERALS, MINING HISTORY, FLUORESCENT DISPLAY AND A TRUE REPLICA OF THE MINING OPERATIONS HUNDREDS OF FEET BELOW THE SURFACE OF THE EARTH.

SALES AREA: —Mineral Lights, Specimens, Souvenirs and jewelry available.

Open April to December 15th
Daily except on Mondays
9:00 to 12:00 A.M. — 1:00 to 5:00 P.M.
Sundays 1:00 to 6:00 P.M.

After December 15th, groups by appointment

Admission — Adults 75c — Children 25c

This is a Franklin Kiwanis sponsored, non-profit, Community project.

Gifts and donations to the Museum are tax deductible.

6B Evans Street, Franklin, N. J. 07416
(201) 827-3481
A view of the activity at the National Guard Armory. Dealers are swamped by patrons attending the Annual Franklin Kiwanis Mineral Show.

Hunting for Franklin Mineral Specimens at the Buckwheat Dump is a family affair.
Ore Bodies are drilled prior to dynamiting. Here the equipment and the method of mining Franklin Ore is explained to visitors at the Franklin Kiwanis Mine Replica.

THE MINERAL EXHIBIT AND MUSEUM

The Franklin-Sterling Mineral Exhibit is sponsored by the Kiwanis Club of Franklin as a non-profit community project. The Kiwanis Club has also established The Mineral Museum and Mine Replica as a permanent display of the minerology and mining history of the area.

The Museum is operated by the Franklin Mineral Museum Inc. and contains permanent and loaned collections of unusual interest. It also houses a spectacular display of fluorescent minerals whose brilliant colors may be viewed under Ultra-Violet light. The Replica Mine, located in the original Engine House used to hoist ore from the Open Cut, simulates actual mining operations in the Franklin Mine.

Proceeds from the Mineral Exhibit and Museum and Replica Mine are used to maintain and develop the Museum as a permanent repository of Franklin-Sterling minerals in the expectation that it will become the definitive collection of this unique minerology.

The Trustees of the Museum welcome permanent gifts and loans for display. All gifts and contributions are tax exempt. Sponsors, Patrons and Donors are cordially invited to solicit further information.

"The Fluorescent Mineral Capital of the World"
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 now ceased. The opportunity to view and perhaps even discover mineral specimens unique to this area attracts an ever greater stream of visitors to these exhibits.

More than 200 minerals have been found at Franklin, the greatest variety ever discovered in one place. Twenty-six of these minerals have been 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 deposits 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 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.

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.

The Franklin Mineral Museum, Inc. is located on Evans Street. The Museum Building is of Fireproof construction, and is connected with the Mine Replica and Fluorescent display room. The building contains a lobby with sales facilities, off this are rest rooms, Curator's office, with its library of Franklin Literature and records, a laboratory and preparation room for the identification of minerals.
Compliments of

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NEW YORK, N. Y. 10014

Chas. R. Campana, President
MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, N. J.

Albaneseite
Allactite
Allanite
Alleghanyite
Amphibole
Actinolite
Anthophyllite
Cummingtonite
Zinc/Mn
Cummingtonite
edenite
Enstatite
Hastingsite
Hornblende
Riebeckite
Tremolite
Asbestos
Analcime
Anatase
Anglesite
Anhydrite
Apatite
Fluorapatite
Manganese Fluorapatite
Apophyllite
Aragonite
Arsenic
Arsenosiderite
Arsenopyrite
Aurichalcite
Axinite
Ferroan
Manganese
Azurite
Bannisterite
Barite
Barylite
Barysillite
Baumite
Bementite
Berzellite/var.
Manganeseberzelite
Biotite
Birnessite
Bornite
Brandtite
Brookite
Brucite
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Manganbrucite
Bustamite
Caahnite
Calcite
Calcite
Spartaite
Celestite
Cerussite
Chabazite
Chalcocite
Chalcopyrite
Chalcopyrite
Chloroponite Nontronite
Chlorophoenicite
Mag. Chlorophoenicite
Chondrodite
Chryscolla
Clinohedrite
Copper
Corundum
Covellite
Cryptomelane
Cuprite
Cuspidine
Datolite
Datolite
Botryolite
Descloiizite
Djurleite
Dolomite
Epidote
Epistilbite
Erythrite
Esperite
Ettringite
Feitknechtite
Feldspar
Albite
Anorthite
Celsian
Anorthoclase
Barian Anorthoclase
Microcline
Barian Microcline
Oligoclase
Orthoclase
Hyalophane
Fluoroborate
Fluorite
Franklinite
Friedelitite
Gageite
Gahnite
Galena
Ganophyllite
Garnet
Almandine
Andradite
Andradite
Mulanite
Tannanlanite
Polyadelphite
Topazolite
Caswellite
Grossularite
Spessartite
Gersdorfitite
Gerstmannite
Glaucochroite
Glauchophane
Goethite
Gold
Graphite
Greenockite
Groutite var. Antimonian
Gypsum
Halloysite
Hancockite
Hardystonite
Hausmannite
Hedyphane
Hematite
Hemimorphite
Hendricksite
Hetaerolite
Heulandite
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<table>
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MINERALS FOUND ONLY AT FRANKLIN/OGDENSBURG, NEW JERSEY

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<th>Minerals Found Only at Franklin/Ogdensburg, New Jersey</th>
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<td>Zinc Schefferite</td>
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VIEW OF THE FRANKLIN ORE BODY
Looking west, showing levels
Levels or 'Hallways'.

The mine was underground, out of
sight. The upper figure shows how it
would appear as a factory, above
ground. The buildings and mounment
are for comparison.

Numbered levels connect with all shafts,
others only with auxiliary shafts.

Drawing and data courtesy of Clarence Haight, Franklin, N. J.
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RECENT DEVELOPMENT IN FRANKLIN-Sterling Mineralogy

Recent developments in Franklin-Sterling mineralogy have for the most part centered about the study of material available for years but only lately recognized as worthy of further investigation. David Cook at Harvard and Paul Moore at Chicago have worked on the tephroite-related minerals and have added a number to the list of local species. Quite a few of these are new to science and have been named after collectors of Franklin Minerals; such names as Gerstmann, Albanese and Baum are thus memorialized. The studies of Moore on the mineralogy of Langban, Sweden similar in many ways to Franklin, have alerted collectors to seek specific mineral species, and several of these have since been found locally.

Minerals which have long been called by an incorrect name are still being straightened out. Franklin manganophyllite is in large part hendricksite, altered pyrochroite is in part feitknechtite, much of the Buckwheat dump chlorite is stilpnomelane, Sterling stalactitic black sphalerite is voltzite, some of the ganophyllite is bannisterite, desaulesite is pimelite, jeffersonite is augite and there are many more.

Minerals awaiting further study promise additional discoveries. Among these are three different serpentines, altered roeblingite, manganese oxides and more. The Picking Table, journal of the Franklin-Ogdensburg Mineralogical Society publishes accounts of the progress of the Franklin-Sterling studies, generally far in advance of the formal presentation in the technical journals.

Other local developments include installation of the new Franklin Mineral Museum fluorescent display and opening of the Trotter Mine dump to mineral collecting. The position of Franklin, New Jersey as "Fluorescent Mineral Capital of the World" is amply supported by the Museum collection which contains thirty-two different species that will fluoresce under various ultraviolet sources.

While the description of a new mineral is beyond most collectors, there is no difficulty in collecting on the dumps, and in recent years minerals new to the Franklin list and some new to any list have been found there. Amateur and advanced collector alive have been well rewarded.
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5. THE LESNICKS, 1454 Odell St., Wantagh, N.Y. 11793
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7. SPECIALTY MINERALS, Box 232, Scotch Plains, N.J. 07076
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17. MARTIN’S MINERALS, P.O. Box 3537, Harrisburg, Penna.
18. JOSEPH P. STACHURA, 1766 House, Quaker Hwy. Rt. 146, Uxbridge, Mass. 01569
19. RAINBOW GEMCRAFT, 125-11 103rd Ave., Richmond Hill, L.I., N.Y. 11419
20. MUSSELMANS ROCK, GEM & MINERAL HOUSE, 558 Firethorn Dr., Monroeville, Pa.

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Dark Room—ULTRA VIOLET PRODUCTS CO., INC., 5114 Walnut Grove Ave., San Gabriel, California

Dark Room—FLUORESCENT HOUSE, 12 Beach Place, Branford, Conn. 06405

Families who have mineral Collections from this area, who would like to place the collection in the Mineral Museum in memory of someone, please contact the museum.
**FLUORESCENT MINERALS OF THE FRANKLIN-Sterling Area**

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<th>Mineral</th>
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<td>Barite—Blue to Cream</td>
<td></td>
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<tr>
<td>Barylite—Blue</td>
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<tr>
<td>Calcite—Red</td>
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<tr>
<td>*Calciothomsonite—Blue</td>
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<tr>
<td>*Cerussite—Yellow</td>
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<tr>
<td>Clinohedrite—Orange</td>
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<tr>
<td>*Corundum—Red</td>
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<tr>
<td>Diopside—Blue</td>
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<tr>
<td>Esperite—Yellow</td>
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<tr>
<td>(Formerly Ca-Larsenite)</td>
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<tr>
<td>*Fluorite—Green</td>
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<tr>
<td>Gypsum—Cream</td>
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<tr>
<td>Hardystonite—Purple</td>
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<tr>
<td>Hydrozincite—Blue</td>
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<tr>
<td>Margarosanite—Blue</td>
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<tr>
<td>Microcline—Blue-White</td>
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<tr>
<td>Nasonite—Blue</td>
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<tr>
<td>Norbergite—Cream</td>
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<tr>
<td>Pectolite—Orange</td>
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<tr>
<td>Phlogopite—Yellow</td>
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<tr>
<td>Powellite—Yellow</td>
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<tr>
<td>Scapolite—Blue</td>
<td></td>
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<tr>
<td>Scheelite—Yellow</td>
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<tr>
<td>*Smithsonite—Cream</td>
<td></td>
</tr>
<tr>
<td>*Sphalerite—Red &amp; Blue</td>
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<tr>
<td>Svabite—Red</td>
<td></td>
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<tr>
<td>Tourmaline—Yellow</td>
<td></td>
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<tr>
<td>Tremolite—Blue</td>
<td></td>
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<tr>
<td>Willemite—Green &amp; Yellow</td>
<td></td>
</tr>
<tr>
<td>Wollastonite—Orange</td>
<td></td>
</tr>
<tr>
<td>Zircon—Cream</td>
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</tbody>
</table>

* Indicates Long Wave Minerals. All others Short Wave Minerals.

The White House in '68
The State House in '69

**VOTE REPUBLICAN**
General Election, November 4, 1969

**ELECT**

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- ✕ WILLIAM T. CAHILL

**For Assembly:**
- ✕ ROBERT E. LITTELL
- ✕ WALTER E. FORAN

**For Surrogate:**
- ✕ DONALD C. BAIN

**For Freeholder:** (3 year term)
- ✕ EMILY CARDINEAU

**For Freeholder:** (2 year unexpired term)
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Paul Leon
Esther L. Smith
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