15th ANNUAL
Franklin-Sterling

MINERAL EXHIBIT

The Fluorescent Mineral Capital of the World

October 9th & 10th, 1971

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THE ORIGIN OF FRANKLIN-Sterling MINERALS

The wealth of mineral species found in the Franklin-Sterling area owes its abundance to an assortment of geological events seldom if ever duplicated elsewhere. A billion years ago sand, silt and carbonate were deposited on the bottom of a great sea reaching from New Jersey nearly to Hudson Bay. With these sediments were submarine lavas and accompanying hot springs. In quiet deep spots, iron, zinc and manganese accumulated and were incorporated into the thickening sequence. Over 800 million years ago, depth of burial and folding transformed the rocks and their enclosed ores into the layered materials we see today.

It was during this initial period of mountain building that such locally abundant minerals as franklinite, willemite, tephroite, rhodonite, feldspar, proyksene, hendricksite, magnetite, and much of the zincite was formed. Following elevation of the new land above the sea, erosion took place until the land was nearly level and the great cover of rock over the Franklin ore was removed. Some of the ore was incorporated into the beach sand that was deposited over the ore some 500 million years ago, and could be seen underground in the fossil beach prior to closing of the Franklin mine in 1954.

The new period of rock deposition starting with the beach at Franklin continued as the surface sank in the classic geologic pattern of submergence, deposition, uplift and erosion. Perhaps four periods of mountain building took place during the repetitions of the sequence, each with an opportunity for deep fractures to allow introduction of new liquids and vapors to add and alter the earlier minerals. Volcanos flourished in the vicinity 400 million years ago, and again 160 million years ago.

It is no wonder that the number of mineral species in the area continued to increase as various elements were added by solutions circulating through the interconnecting fault pattern. The deepest part of the ore at Sterling was invaded successively by magnesium, boron and sulfur giving origin to a host of additional minerals. The magnesium produced dolomite and serpentine, and zinc was released from the serpentinized willemite to recrystalize as zincite, and dissolved willemite formed radiating white willemite in dolomite veins.

For the last 100 million years or more, the Franklin-Sterling 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, continental glaciation has aided the process exposing the ore bodies for discovery and mining. Meanwhile, minerals continue to form. Until it was dried up by mining, the mud zone at Ogdensburg was growing aragonite crystal clusters, chalcophanite, and other exotic manganese oxides. At present, greenockite, hydrozincite and hemimorphite are forming underground and in the surface dumps.

While the greater part of nature's work in forming Franklin-Sterling minerals has been finished, the story is far from completed. New discoveries are being made and amateur and professional working together are writing the next chapter in Franklin-Sterling mineralogy.
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THE MUSEUM, MINE REPLICA AND BUCKWHEAT DUMP

The Kiwanis Club has established the Mineral Museum and Mine Replica as a permanent display of the mineralogy 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, which used to hoist ore from the Open Cut, simulates actual mining operations in the Franklin Mine.

Operation of the Buckwheat Dump has been turned over to the Museum Corporation by the Boro of Franklin under a three year lease.

Admission fees to the Museum are kept at a minimum and help to cover the cost of staffing and operation. Profit from the sale of merchandise makes up the operating deficit. The annual mortgage commitment is raised by the Kiwanis Club through revenues from the annual Mineral Exhibit.

Trustees of the Museum welcome gifts and loans of minerals for display. All gifts and contributions are tax exempt.
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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 possess-
sions. 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
errection 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 on again in 1970.
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### MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, N. J.

Prepared by Frank Z. Edwards, August 1, 1968 and published in "The Picking Table," journal of the Franklin-Ogdensburg, Mineralogical Society. Rev. 9-71

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VOTE DEMOCRATIC

Richard V. Laddey - For Senate

David Clauss - For Assembly

Michael Martin - For Assembly

Alan Casey - For Sheriff

Russell Ortman - For Freeholder

"Men of Action -- Not Alibis"

Paid for by Sussex County Democratic Committee
Donald Richards, Chairman
<table>
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<tr>
<th>Mineral Species Found at Franklin/Ogdensburg, N. J.</th>
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Anyone having unusual mineral specimens of the Franklin-Sterling Area that would be interested in exhibiting them at the Franklin Mineral Museum, on a loan basis, or permanent basis, we would enjoy hearing from you.
Mineral Dealers attending the 1971 Franklin-Sterling Mineral Show

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12. DAN’S DIGGINGS, 13 Lowell St., Arlington, Mass. 02174

13. FRED B. JONES, Lounsbury Rd., Ridgefield, Conn. 06877

14. MARTIN MINERALS, 586 So. 2nd St., Highspire, Pa. 17034

15. JOSEPH P. STACHURA, Rt. 146, Uxbridge, Mass. 01569

16. RAINBOW GEMCRAFT, 125-11 103rd Ave., Richmond Hill, N. Y. 11419

17. BOB’S MINERALS, 251 Nut Swamp Rd., Red Bank, N. J. 07701

18. MERKER’S MINERALS, 416 Bowen St., Dayton, Ohio 45410

19. LAWRENCE H. CONKLIN, 2 West 46th St., N. Y., N. Y. 10036

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Dark Room B — RAYTECH INDUSTRIES, INC., River Rd., Stafford Springs, Conn. 06076
### MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, N. J.

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<tr>
<th>Jasper</th>
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FLUORESCENT MINERALS OF THE FRANKLIN-STERLING AREA

*Aragonite—Cream
Axinite—Red
Barite—Blue to Cream
Barylite—Blue
Calcite—Red
*Calciothomsonite—Blue
*Cerussite—Yellow
Clinohedrite—Orange
*Corundum—Red
Diopside—Blue
Esperite—Yellow
(Formerly Ca-Larsenite)

*Fluorite—Green
Gypsum—Cream
Hardystonite—Purple
*Hodgkinsonite—Red
Hydroxapatite—Yellow
Hydrozincite—Blue
Margarosanite—Blue
Microcline—Blue-White
Nasonite—Blue
Norbergite—Cream
Pectolite—Orange
Phlogopite—Yellow

Powellite—Yellow
Scapolite—Blue & Red
Scheelite—Yellow
*Smithsonite—Cream
*Sphalerite—Red & Blue
Svabite—Red
Tourmaline—Yellow
Tremolite—Blue
Willemite—Green & Yellow
Wollastonite—Orange
Zircon—Cream

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

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HAMBURG — OGDENSBURG — STOCKHOLM — LAFAYETTE

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VIEW OF THE FRANKLIN ORE BODY
Looking west, showing levels and "Hallsays". The mine was underground, out of sight. The upper figure shows how it would appear as a factory, above ground. The buildings and monuments are for comparison.

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

Drawing and data courtesy of Clarence Haight, Franklin, N. J.

Scale approximately 1 inch equals 400 feet.
IN MEMORY OF

Alfred (Bike) Littell

Charter Member and Past Secretary of Franklin Kiwanis Club
Charter Member and First Secretary of the Franklin Mineral Museum

"A Dedicated Servant who loved his Fellowman"

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SUSSEX-WANTAGE
SUSSEX SHOPPING PLAZA
RT. 23, WANTAGE
### MINERALS FOUND ONLY AT FRANKLIN/OGDENSBURG, NEW JERSEY

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<th>Albaneseite</th>
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<tr>
<td>Esperite</td>
<td>Larsenite</td>
<td></td>
</tr>
<tr>
<td>Franklinite</td>
<td>Leucophoenicite</td>
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<tr>
<td>Gageite</td>
<td>Loseyite</td>
<td></td>
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<tr>
<td>Gerstmannite</td>
<td>McGovernite</td>
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<tr>
<td>Glaucochroite</td>
<td>Magnesium</td>
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<td>Chlorophoenicite</td>
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</table>

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.

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