18th ANNUAL

Franklin-Sterling

MINERAL EXHIBIT

The Fluorescent Mineral Capitol of the World

October 12 & 13, 1974

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FRANKLIN, NEW JERSEY

PRICE 50¢
This Book is Dedicated To

The ASTRONAUTS and
The NATIONAL AERONAUTICS
and SPACE ADMINISTRATION

The Kiwanis Club of Franklin and the Franklin Mineral Museum express their appreciation and gratitude to the Officers and men of the Goddard Space Flight Center, who granted permission for the loan of the Lunar Sample for our 18th Annual Mineral Show.

We salute with pride, the Apollo 12 Astronauts Gordon, Al Bean and Charles Conrad, who made the successful trip to the moon in the Rocket "Intrepid" and brought back the Lunar Sample displayed at the Museum.

A special salute to Astronauts Virgil Grissom, Ed White and Roger Chaffee who lost their lives in a flash fire prior to their scheduled flight.

The Apollo 12 Moon Mission occurred in November, 1969. The Lunar Sample is a priceless scientific specimen. It is a sample of basic igneous formation and is sealed in a dry, nitrogen atmosphere, viewed through a pressurized optical glass container.

When viewing the Lunar Sample, it should be remembered that it took many years of scientific research, billions of dollars, the combined efforts of the greatest minds in scientific research, many early failures, (witnessed by the world on Satellite T.V.), before a trip to the moon and return was successful.

As you look at the "Moon Stone", you see an insignificant, dirty looking piece of stone, that if you should see it on a dirt road, you would kick it aside, but, it is priceless evidence that the United States of America has achieved the greatest Scientific Solar Achievement.
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, proyexene, 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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Adamite
Allactite
Albanite
Alleganyite
Almandine
Amphibole
Actinolite
Anthophyllite
Barkevikite
Byssolite
Cummingtonite
Edenite
Fluoredenite
Enstatite
Hastingsite
Magnesioriebeckite
Pargasite
Riebeckite
Tremolite
Asbestos
Analcime
Anatase
Andradite
Anglesite
Anhydrite
Anna bergite
Anorthoclase
Barian Anorthoclase
Antimonian Groutite
Apatite
Fluorapatite
Hydroxyapatite
Apophyllite
Aragonite
Arsenic
Arseniosiderite
Arsenolite
Arsenopyrite
Aurichalcite
Axinite
Ferrocian
Manganoan
Azurite

Bannisterite
Barite
Barylite
Borysilite
Bementite
Berthierite
Bianchite
Biotite
Birnessite
Bixbyite
Borneite
Brandite
Brochantite
Brookite
Bustamite
Cahnite
Calcite
Carminite
Celestite
Celsian
Cerussite
Chabazite
Chalcocite
Chalcopyrite
Chloanthite
Chloropal
Chlorophoenicite
Chondrodite
Chrysocolla
Clinochlore
Clinohedrite
Conichalcite
Copper
Corundum
Covellite
Cryptomelane
Cuprite
Cuproadamite
Cuspidine
Datolite
Datolite
Botryolite

Desclouizite
Devilline
Djurleite
Dolomite
Epidote
Epsomite
Erythrite
Esperite
Epsomite
Ettringite
Eveite
Feitknechtite
Ferroschallerite
Flinkite
Fluoborite
Fluorite
Franklinite
Friedelite
Gageite
Gahnite
Galena
Ganophyllite
Gersdorftite
Glaucocrine
Goethite
Gold
Graphite
Greenockite
Grimaldite
Grussular
Groutite
Gypsum
Hancockite
Hardystonite
Hausmannite
Hedyphane
Hematite
Hemimorphite
Hendricksite
Hetaerolite
Heulandite

Cont.
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<thead>
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<th>MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, N. J.</th>
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<tr>
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<td>Zircon</td>
<td>Golden Yellow</td>
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<table>
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<tr>
<th>Mineral Name</th>
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</table>

Anyone having unusual mineral specimens of the Franklin-Sterling Area and would be interested in exhibiting them at the Franklin Mineral Museum, on a loan basis, or permanent basis, we would enjoy hearing from you.

Just off the Press

A GUIDE TO MINERAL COLLECTING AT FRANKLIN AND STERLING HILL, NEW JERSEY

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Dedicated to the memory of the men who worked in the world famous Franklin and Sterling mines. Dedicated May 7, 1972.

This statue, mounted on a concrete base, that was used for a hoist that drew crude ore from the Parker Shaft, was the work of Sculptor Jarvis Boone. It depicts the miner of early days, wearing a checked flannel shirt, heavy underwear to combat the coldness of the mine, he wears boots because of the constant presence of water in the mines. On his head he wears the original "hard hat" with a candle for illumination. In his right hand he carries a sledge hammer and drill bit. In his left hand is his lunch bucket which sustained him for the day's work in the mine.

The statue, paid for by public contributions, stands on the lawn outside the Franklin Mineral Museum, facing the visitors as they walk to the museum entrance. He also faces the setting sun, symbolical of the end of the day and the end of mining in Franklin.
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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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Looking west, showing levels
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The mine was underground, out of
sight. The upper figure shows how it
would appear as a factory, above
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are for comparison.

Numbered levels connect with all shafts,
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Drawing and data courtesy of Clarence Haight, Franklin, N. J.
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