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❖ Dedication ❖

The 1976 Mineral Show Booklet is dedicated to
FLORENCE HANSEN (Retired)
First Lady of Minerals

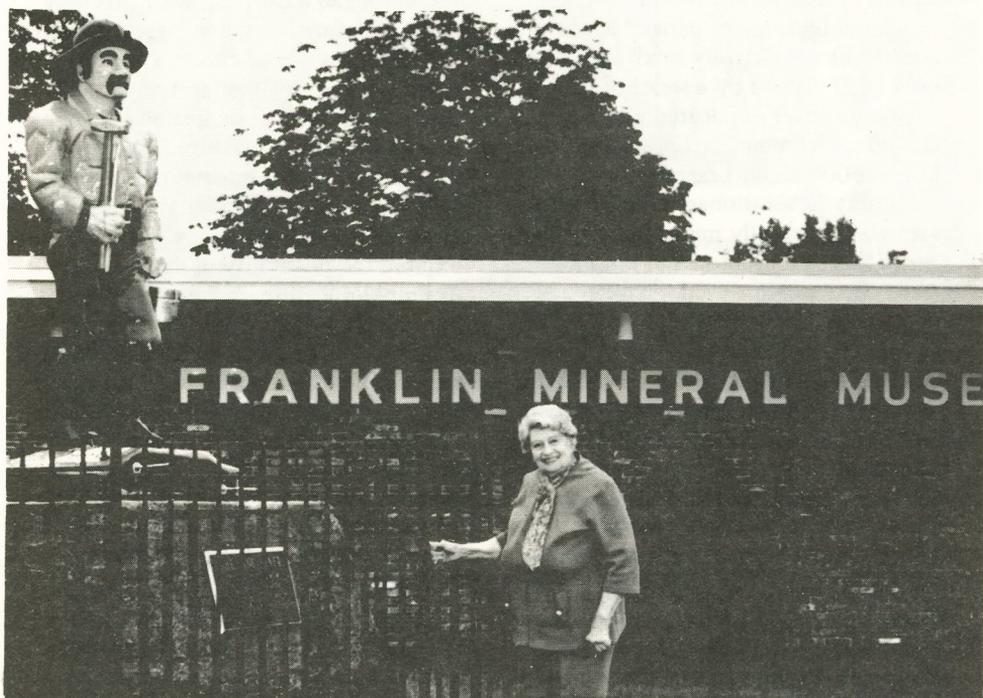


Illustration 1: Florence Hansen at the statue of "The Zinc Miner" which is dedicated to the men who toiled in the world famous mines at Franklin, New Jersey.

By COLONEL ERVAN F. KUSHNER, B.S.
LL. B.
5 Colt Street
Paterson, New Jersey 07505

It is now 10 years since the Franklin, New Jersey Kiwanis Club, as one of its service projects, established the Franklin Mineral Museum. In that short period of time, it has become the premier attraction in the Borough of Franklin and a great source of pride to all of its citizens.

The facility is open daily, including Sundays and Holidays, from March 15th to December 15th. Its operations are financed through admissions, sales

and donations by the Kiwanis Club from the proceeds of the Annual Mineral Show held in early October.

The museum now houses one of the most comprehensive collections of Franklin minerals in the world and its talented manager, Mrs. Florence Hansen, is known to all who have visited the institution. Her graciousness and the personal interest she shows to each patron accounts in no small measure for the success achieved by the venture. She is perhaps, the only woman in the United States, today, managing a major-mineral museum.

Franklin, New Jersey has been a

mecca for mineral collectors since the beginning of the nineteenth century and by 1975 over 250 minerals have been identified as being indigenous to the three mile area stretching from Franklin to Ogdensburg. In no other area can this wealth of minerals be found.

This abundance of mineral specimens, confined to a relatively small area, can only be explained by a series of geological events never duplicated elsewhere in the past. The sequence began about one billion 500 million years ago.

During Revolutionary War days the area was principally mined for iron since the pioneer prospectors did not understand the nature or even the extent of the huge orebody which lay within the country rock known as the Franklin Limestone Formation. Only a small portion of the rich zinc ore lay exposed, in a buckwheat field, close by the Wallkill River, as the result of erosion and the scouring action of the glaciers.

A local physician, Dr. Samuel Fowler, in the early nineteenth century, learned in matters of natural science, recognized the true nature of the orebody and it was his unflinching interest which led to the development of the zinc mining industry at Franklin.

While Dr. Fowler may be credited with initiating the mining operations at Franklin, it remained for the New Jersey Zinc Company to efficiently exploit the huge zinc deposits following extensive litigation which ultimately led to the merger and consolidation of the smaller mining companies at Franklin.

By 1954, the world's richest zinc orebody had been completely mined out and the entire operation at Franklin ground to a halt. The area underwent a change from a bustling industrial center to a somnolent suburban area. There was an appreciable drop in the population.

However, rockhounds still continued to visit the area and to attend the annual Franklin Kiwanis Mineral Show which was first started in 1954. There was

nothing permanent, however, in Franklin to remind the collector, both serious and amateur, of the dramatic geological and mineralogical history of the area.

Notable collections of Franklin minerals had been assembled in the past but these, for the most part, were privately owned or were housed in large metropolitan museums whose curators were either too busy or disinclined to spend much time in assisting the dedicated amateur in his quest for knowledge.

The unqualified success of the first Kiwanis Mineral Show led its founding father Edward Selems, now deceased, to explore the possibility of establishing at Franklin a museum which would not only house a definitive collection of Franklin minerals but which would also include mining memorabilia, historical items and literature all relating to Franklin's illustrious past.

Colonel Kushner is the author of two books, *A Guide to Mineral Collecting at Franklin and Sterling Hill, N.J.*, and *A Guide to Mineral Collecting at Ouray, Colorado*.

The Museum was started modestly enough, as the replica of an old zinc mine, in what was once the original engine house which supplied the power to hoist the mined ore from the Buckwheat Open Pit. The venture was an immediate success. Thereafter a small mineral collection was added to the exhibit but it quickly became apparent that larger and more commodious quarters would be required to house the ever increasing contributions which were being made to the newly established museum.

The Franklin Kiwanis Club rose to the task and land was acquired adjacent to the mine replica building. An architect and builder were engaged, a fund drive undertaken and mortgage money



Illustration 2: A well stocked museum shop is another feature to be found at The Franklin Mineral Museum.

PHOTOS BY HARRY SENCHUCK

acquired. On October 9, 1965 the new museum was opened to the public.

During the first year of operation volunteers were used to supervise the activities of the Museum but the need for continuity and the direction necessary for the proper development and operation of the project led to the search for a full-time manager for the new museum.

Alfred B. Littell, Kiwanis official, member of the New Jersey State Legislature and a descendant of an old-time Franklin family, was designated by the organization to interview and select the most qualified individual for the position.

"Florence, we want you to run the Mineral Museum for us," was the way he broached the subject to Mrs. Hansen as she was sitting on her porch, at Franklin, one sunny spring day. Florence Hansen was no stranger to the Franklin scene when she accepted the offer and assumed her duties as manager.

Years previously, she permitted her only child, a son of fourteen and four of his friends to use a room in her home for purposes of nature study. Since none of the lads was old enough to drive an automobile, Mrs. Hansen acted as their chauffeur. Throughout the 1930s many visits were made to the mining sites at Franklin and a rather respectable collection of Franklin minerals was acquired by young Hansen and his fellow collectors. It was during this period of time that Mrs. Hansen made the acquaintance of the L. H. Bauer, Chief Chemist for the New Jersey Zinc Company, who delighted in explaining the composition of the minerals which the boys had found on the mine dumps.

Immediately prior to the outbreak of World War II, Mrs. Hansen was prematurely widowed. Shortly thereafter, tragedy struck again when her only son died at the age of 24 after being bedridden and in and out of the hospitals for more

than 18 months.

With the declaration of war, Mrs. Hansen sought and obtained employment in a machine shop in nearby industrial Paterson.

The transition from the sheltered life which she had led to that of operating a heavy drill press used for fabricating machinery vital to the war effort was not easy. Florence Hansen labored at the job for nearly a year until her own health failed.

Determined to continue, she next accepted the position as manager of the Y.W.C.A. cafeteria also in Paterson. What with rationing and war-induced shortages, these new duties were indeed a challenge.

It was here that Mrs. Hansen demonstrated the marked business acumen which was to characterize her subsequent activities as manager of the Franklin Mineral Museum. In a relatively short time, she was able to improve the quality of the service and food; and during the same period was able to wipe out an operating deficit substituting instead a substantial profit which was speedily donated to a servicemen's canteen which had been established in Paterson.

The war's end found Mrs. Hansen in retirement but not for long. The New Jersey Zinc Company was in dire need of a hostess to manage its Club House at Franklin. With her reputation preceding her, she started her third career on the very day of her initial interview. Guests of the company, in those days, included world famous geologists and mineralogists who periodically visited the area in furtherance of their professions. Mrs. Hansen got to know them all and once again her interest in Franklin minerals, long dormant, was rekindled. This pleasant association with the Zinc company

was brought to a close when the mining operations ceased.

It was this valuable background of experience which made Florence Hansen the logical choice to manage the Franklin Museum.

Particularly pleasing to her are the hundreds of school children from Pennsylvania, New Jersey and New York who visit the museum annually. In them she sees, perhaps, some future Dana, Palache or Baum. In their youthful eyes is expressed the same intense interest once exhibited by her own son.

Franklin has been proclaimed "The Fluorescent Mineral Capital of the World" and the museum's impressive collection of Fluorescent minerals gives substance to that boast. It resembles on first viewing a grotto of drab rocks of varying sizes and textures, in dull brown, greys, rust and sand. But when Mrs. Hansen switches on the ultraviolet lights, it becomes alive . . . a kaleidoscope of glowing, vibrant colors of the rainbow.

A complete and well appointed mineral shop is another facility to be found at the Franklin Museum and it is to Mrs. Hansen's credit that she insists in stocking merchandise of the highest quality. Thus the collector may find choice Franklin mineral specimens, mineral literature authored by accepted authorities, fluorescent supplies and the collecting tools of the rockhound.

Under Mrs. Hansen's management, the Franklin Mineral Museum has perpetuated the mineral heritage of historic Sussex County and exposed thousands of adults and school children to the wonders of minerals and the joys of collecting. A visit to the Franklin Mineral Museum is a must for all mineral collectors if only to meet Florence Hansen . . . "The First Lady of the Franklin Mineral Museum."

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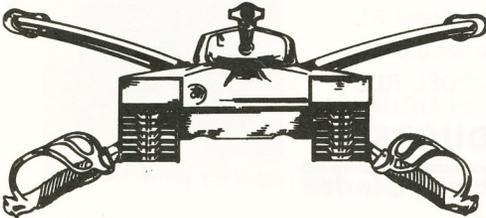
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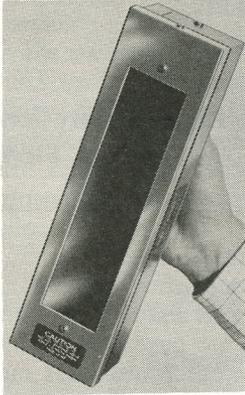
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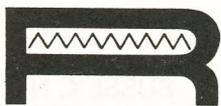
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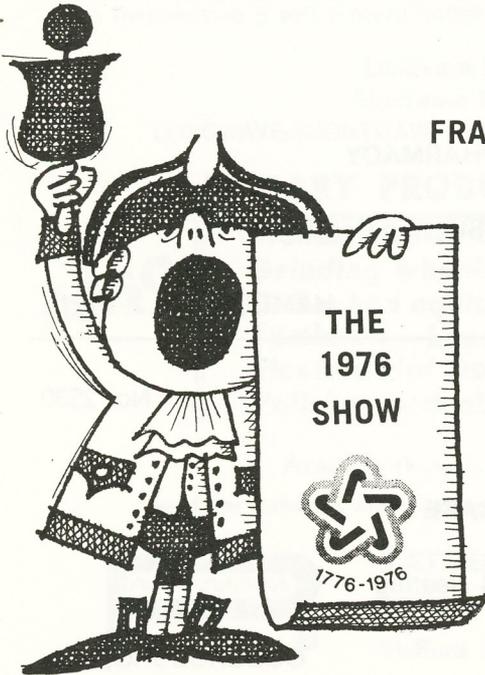
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*"The Fluorescent Mineral Capital of the World"**

In 1968, by official resolution of the New Jersey State Legislature, the Borough Council and the Sussex County Board of Freeholders, Franklin Borough has now been officially designated as "The Fluorescent Mineral Capital of the World."

Franklin Mayor, William Hodas explained that "We in Franklin were blessed with many specimens, when properly displayed, that glow with a tonality of colors never to be forgotten. Many of these specimens are not found elsewhere in the world. Rightfully, Franklin, through this phenomena of mineral wonders is in reality the Fluorescent Mineral Capital of the World."

This resolution and designation is the first step taken by the officials of Franklin Borough to publicize and promote the mineral deposits of Franklin as an attraction for mineral collectors and tourists.

It all began when Amos Phillips, owner of the Trotter Mineral Dump, hosted a dinner in February to which he invited members of the Borough Council, the Sussex County Board of Freeholders and other county officials, Franklin businessmen, the Franklin Kiwanis and other Franklin service clubs, and members of the F.O.M.S. Through various speakers, particularly a guest from Franklin, N.C., "Gem Capital of the World", Mr. Phillips was able to show his guests that Franklin Borough had a great natural attraction yet was doing nothing to promote or publicize it for the benefit of the community. The meeting did serve its purpose. Mayor Hodas appointed a five member committee to promote the Fluorescent title for Franklin, prepared pamphlets and publicized the Franklin mineral deposits with particular emphasis on the areas open to the public — the Franklin Mineral Museum. The Gerstmann Private Mineral Museum, the Buckwheat Dump and the Trotter Mineral Dump.

Mayor Hodas claims that "Adventure is not lost or only to be found in books — just discover or rediscover Sussex County, the four season county, and visit the Fluorescent Mineral Capital of the World, Franklin, New Jersey."

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*Corundum - red
Diopside - blue, cream
Esperite - yellow
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*Fluorite - green, cream
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Hemimorphite - white, green
*Hodgkinsonite - red
Hydrozincite - blue white

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Powellite - yellow
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Scapolite - blue, red
Scheelite - yellow, blue
*Smithsonite - cream
*Sphalerite - apricot
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HISTORY OF THE FRANKLIN KIWANIS FRANKLIN-STERLING MINERAL SHOW

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 snow-storm 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 still being used.

In 1972 the life size status of a typical Zinc Miner, carved by Jarvis Boone, was dedicated to the Museum. And the show continued growing. In 1974, the Mineral Exhibit featured a "free showing" of the Apollo 12 Moon Rock.

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This year, the twentieth Mineral Show is larger than ever with 23 dealers, and 11 exhibitors. The Museum has also been expanded to include Kraissl Hall which will be featuring several educational exhibits on Fluorescents and Franklin Minerals and Buckwheat Dump has been "turned over" to make available more mineral specimens. And even more unique — prices are still \$1.50 for adults and \$1.00 for children.

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THE ZINC MINER

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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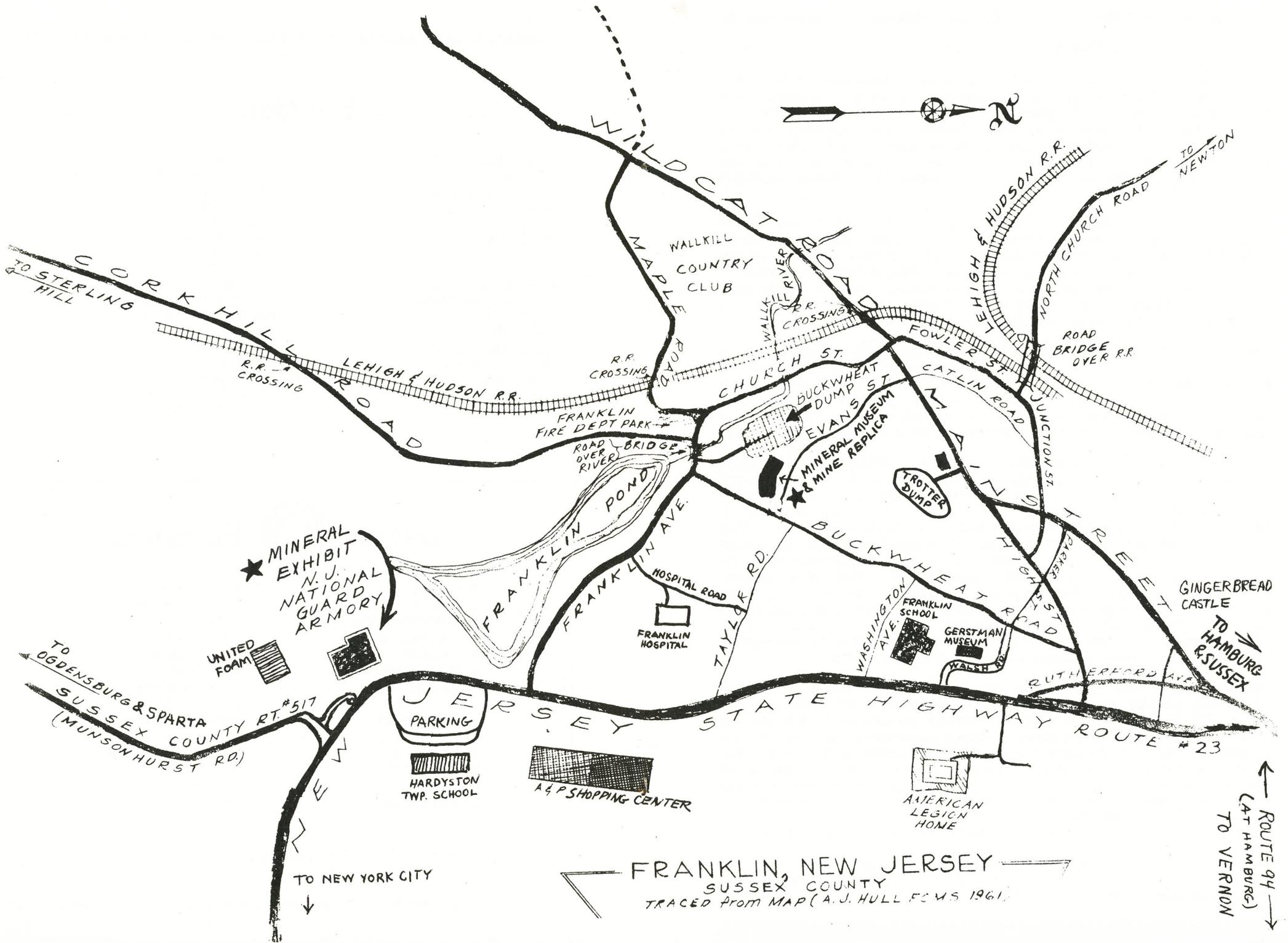


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 TRACED FROM MAP (A. J. HULL FCMS 1961)

FRANKLIN MINERAL MUSEUM

On October 9th, 1975, the Franklin Mineral Museum celebrated its 10th birthday. In that short period this institution has become the premier attraction in the Borough of Franklin and a great source of pride to its citizens. It has also become essential to the Franklin mineral collector. The Franklin-Ogdensburg Mineralogical Society, F.O.M.S., meets at the museum on the third Saturday of each month at 1:00 p.m. The following history of the museum, written by Jack Baum, Museum Curator, was adapted from the August 1975 issue of F.O.M.S.'s "The Picking Table."

"The Franklin Mineral Museum was originated by the Franklin Kiwanis Club to boost the fortunes of the town of Franklin. Following the close of the Franklin mine in 1954, the area underwent a change from industrial to suburban and Franklin lost population for a number of years. People came to Franklin to collect minerals and once a year to attend the Kiwanis Mineral Show, started in 1956, and the Museum was founded as a permanent attraction adjacent to the popular Buckwheat Dump, a noted mineral collecting area.

The Founding Father of the Mineral Show and later of the Museum, was Ed Selems, and the success of the Shows encouraged the development of the Museum. Meetings were held and interested individuals were invited to contribute ideas. Kiwanis had earlier obtained the mine replica building in which it has installed the replica and a modest mineral collection. Land was obtained adjacent to the replica mine building and the Museum was on its way.

An architect and builder were engaged, a fund drive undertaken, and a mortgage negotiated by Franklin Kiwanis. Display cases were built to order and mineral loans were obtained to fill the cases. The Museum opened and was dedicated on October 9th, 1965. Members of the Franklin Ogdensburg Mineralogical Society have been active from the start and the Museum owes much to their enthusiasm and generosity. The initial collection was that of Mrs. E. Packard (Sonny) Cook, donated to the Mineral Society and later presented to the Museum. It is rich in the number of species and in fluorescent specimens. About halfway through the first ten years, it became obvious that more space was needed. The mortgage was renegotiated and the building enlarged by the fluorescent display, needed storage space and additional lobby area. Arrangements were also made to operate the Buckwheat Dump for the Borough of Franklin and improvements were made to that attraction as well.

Operating of the Museum is financed through admissions and sales, and the mortgage is paid by the Kiwanis Club from proceeds of the Annual Mineral Shows. The Museum could not operate without the dedicated staff and the generosity of those who have given or loaned specimens as well as the consideration of those who have made available through purchase, often at very low prices, specimens for acquisition or resale. Florence Hansen is known to all who have visited the Museum and as former Manager for 11 years she has devoted nearly all her time to the venture. Space prevents acknowledgement of all who have contributed their time to the operation; either paid or volunteer including Trustees of the Corporation. The venture owes them a great debt.

Collections and display items continue to be acquired by donations and purchases. Among them are the following: The Kraissl-Lemanski comprehensive wall display; the Kraissl collection of mounted gem stones; the Kraissl prize

winning collection of micromounts; the Convery and Haight mining diagrams; the Lord Stirling indenture from the Sussex County Historical Society, the Cherepy historical items; the Hauck miniatures; the Hauck mine lamps; the Hauck coppers; the Hauck specimens and photos; the J.B. Gouger, Jr. specimens, the Bolitho-Gouger wall display; the Edwards Palache specimens and 21 identified mystery minerals; the Phillips fluorescent artwork and the new mineral they discovered; the Fisher specimen memorial to Bauer and Ball; the Prall specimen memorial to Ross and Prall; the Smith specimens; the Klem specimen; and the Chorney memorial collection. Other names to be seen are Knoll, Frondel, Down, Chapman, Sheldon, Sedlock, Leonhard, Merics, Clyne, Riebman, Anderson, and the New Jersey Zinc Company.

On May 2, 1976, the Museum's latest addition — Kraissl Hall — was dedicated. Donated by Fred and Alice Kraissl, the new facility will serve as an education hall for the advancement of Fluorescents and Franklin area minerals, a meeting place for the F.O.M.S. and an expanded sales area for museum minerals and lapidary equipment. In addition to donating the facility, Fred and Alice Kraissl, with the help of friends in the Eastern Federation of Mineralogical and Lapidary Societies (EFMLS) have also donated several slide/tape shows on Fluorescent Minerals to begin the "educational" capabilities of the Mineral Museum.

Important purchases of materials for resale, from which specimens may have been selected for display, include the following: The Hauck-Hendricks specimens; Hauck calamine and fluorescent bulk; the Jack Rowe collection; the Gouger-Dolan material; the Totten and Melson collections; the Edwards specimens and bulk material. In addition, Alice Kraissl has made available specimens in quantity from numerous collections which she has acquired in the process of upgrading her own collection and that of the Museum. Fred Kraissl was an important contributor to the fluorescent collection.

Executives of the Museum corporation have rendered distinguished service. The Presidents have been Ed Selems, Alfred Littell, Fred Kraissl, Robert Meyers and Warren Walters. Under the guidance of these men continued improvement has taken place, a favorable tax status as a New Jersey Historical Site was established, and, with the encouragement of Mayor Hodas, excellent relations have been maintained with the Borough.

Behind the scenes the Museum continues to grow. The archives contain literature on the area from the early 1800's to the present, old and modern maps, pictures from many sources including Kushner and the Harri-Ann Studio, and old correspondence as well as records from the New Jersey Zinc Company laboratory covering analyses. Equipment includes a spectroscope, binocular and petrographic microscopes and a diamond saw. In cooperative investigations with Harvard University, seven minerals have been added to the Franklin list of which four are new to science.

In short, the Franklin Mineral Museum which has specialized exclusively in the mineral heritage of the Franklin-Ogdensburg area of Sussex County, New Jersey, has accumulated and preserved Franklin minerals, has helped to improve knowledge of them, has exposed thousands of adults and school children to the wonders of minerals and the joys of collecting, and has made specimens available to others. The officers, staff and friends of the Museum can justly take pride in the Museum's first ten years.

John L. Baum

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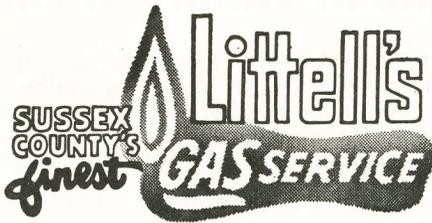
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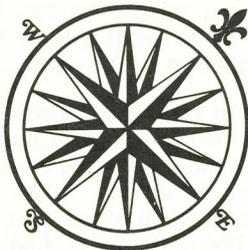
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FRANKLIN: Unique in Variety of Ores

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.

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 town of Franklin turned over to the Museum the administration of the historic Buckwheat Dump. Admittance to the Dump is now from the upper museum level, and the Franklin Mineral Museum, Inc. is privileged to offer collecting in such a richly mineralized area. The Museum is continually acquiring new specimens of superior grade so that visitors will always be able to study the best in Franklin minerals. The Museum has its own laboratory for the identification and preparation of minerals for display.

MINERAL SPECIES FOUND ONLY AT FRANKLIN/OGDENSBURG, NEW JERSEY

Baumite	Holdenite
Chlorophoenicite	Leucophoenicite
Clinohedrite	Loseyite
Esperite	Mcgovernite
Gageite	Magnesium Chlorophoenicite
Gerstmannite	Mooreite
Claucochroite	Roweite
Hancockite	Schallerite
Hardystonite	Torreyite
Hendricksite	Yeatmanite
Hodgkinsonite	

(21 Species)

Certified by John L. Baum FMM, Inc. Curator — September 1976

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- To the staff of the Franklin Mineral Museum for the fantastic effort and 'value' they have given and added to the museum by their untiring, loyal ten years of support.
- To Florence Hansen, who retired this year as Museum Manager, for ten years, for helping to build the Museum to its present world-known position.
- To Joan Sanders, a special welcome as new Museum Manager.
- and to Fred and Alice Kraissl for donated Kraissl Hall as an educational facility for the advancement of Franklin and Fluorescent Minerals.

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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 water and air pipes, and phone and electric cables.

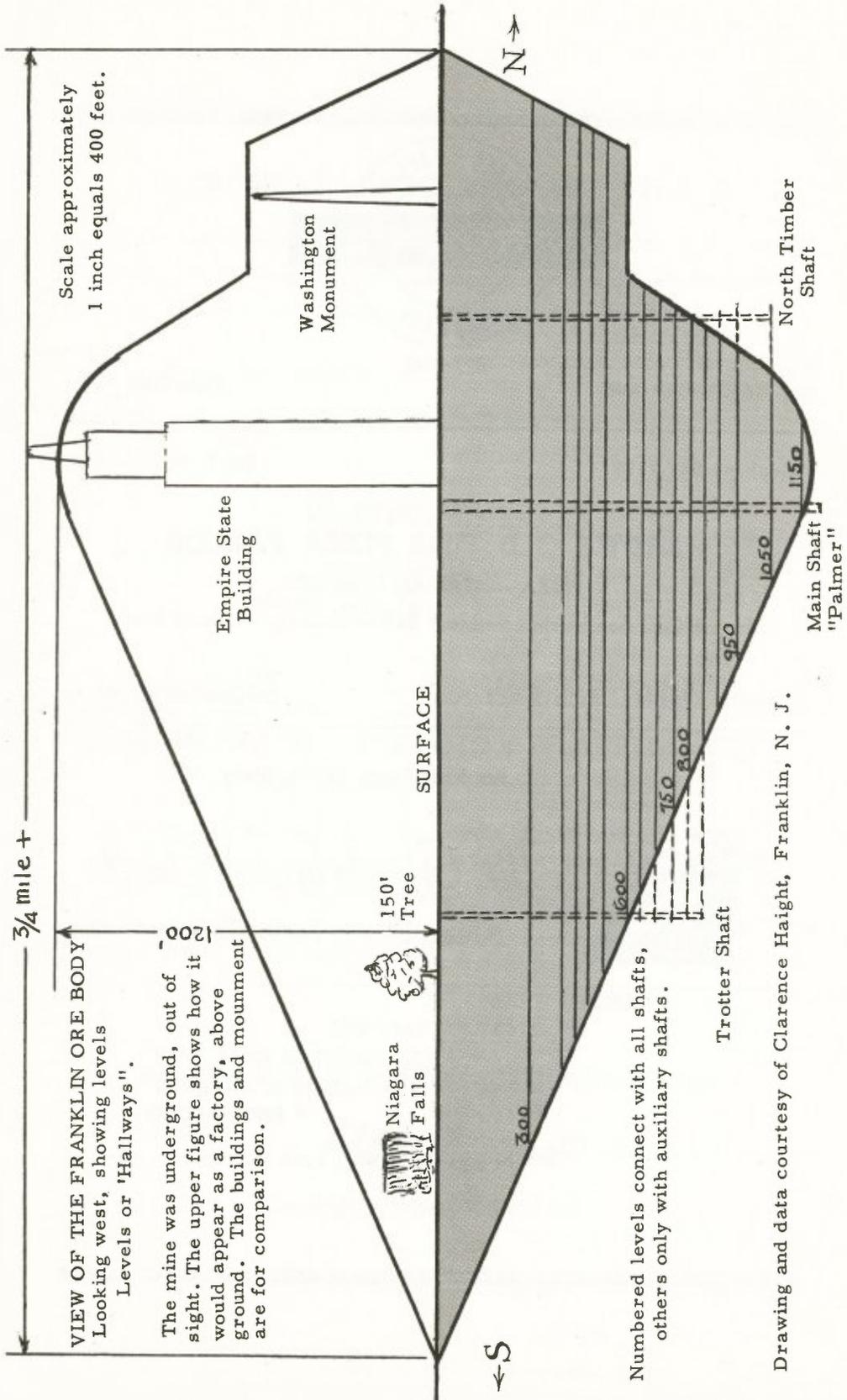
The hallways from the elevators to the working areas were tunnels, called drifts. Tram cars were frequently operated in the drifts to haul materials and men. The drifts are occasionally intersected by cross-cuts, which are tunnels extending from the footwall to the hanging wall to provide access, remove 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 outer limits 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.



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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MINERAL SPECIES FOUND AT FRANKLIN/OGDENSBURG, NEW JERSEY

Edited from numerous sources by John L. Baum, Curator of the Franklin Mineral Museum, September 1976, following the nomenclature of the 1975 Glossary of Mineral Species.

<p>Acanthite Actinalite Adamite Cuproadamite Allactite Allanite Alleghanyite Zinc Alleghanyite Almandine Analcime Anatase Andradite Hydroandradite Anglesite Anhydrite Annabergite Anorthoclase Anthophyllite Apophyllite Aragonite Arsenic Arsenolite Arsenopyrite Augite Aurichalcite Azurite Bannisterite Barite Barkevikite Barylite Bassanite Barysilite Baumite Bementite Berthierite Bianchite Biotite Birnessite Bixyite Bornite Brandtite Brochantite Brookite Brookite Bucite, manganese Brunsvigite, Zinc Manganese Bustamite Cahnite Calcite Carminite Celestite</p>	<p>Celsian Cerussite Chabazite Chalcocite Chalcophanite Chalcopyrite Chloropal Chlorophoenicite Chondrodite Chrysocolla Clinoclone Penninite, Zinc Manganese Clinichrysotile Clinohedrite Conichalcite Copper Corundum Covellite Cryptomelane Cummingtonite Cuprite Cuspidine Datolite Botryolite Desclazite Devilline Diopside Manganese Diopside Djurleite Dolomite Edenite Flouredenite Enstatite Epidote Epsomite Erythrite Esperite Epsomite Ettringite Eveite Fayalite, Manganese Zinc Feitknechtite Ferroaxinite Flinkite Fluoborite Fluorapatite Fluorite Forsterite, Zinc Franklinite Friedelite</p>	<p>Gageite Gahnite Galena Ganophyllite Gersdorffite Gerstmannite Glancrochroite Geothite Gold Graphite Greenockite Grimaldiite Grossular Mangangrossular Grounite, anitmonian Gypsum Hancockite Hardystonite Hastingsite Hausmannite Hedyphane Hematite Hemimorphite Hendricksite Hetaerolite Henlandite Hodgkinsonite Holdenite Hopeite Hortonolite Humite, Zinc Manganese Hyalophane Hydrohausmannite Hydrohetaerolite Hydromica Hydroxy, apatite Hydrozincite Illite Ilmenite Jacobsite Johannsenite Kaolinite Kentrolite Koninckite Kittigite Kutnohorite</p>
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MINERAL SPECIES (Continued)

Larsenite	Prehnite	Spinel
Lead	Psilomelane	Stibnite
Legrandite	Pyrite	Stilbite
Leucophoenicite	Pyroaurite	Stilphomelane
Limonite	Pryochroite	Sulfur
Linarite	Pyrolusite	Sursassite
Loellingite	Pyromorphite	Sussexite
Loseyite	Pryophyllite	Svabite
Magnetite	Pyrrhotite	Symplesite
Magnesium	Quartz, Agate	Synadelphite
chlorophoenicite	Chalcedony	Talc
Magnesianriebeckite	Flint	Tennantite
Manganberzeliite	Jasper	Tenorite
Manganhedenbergite	Rock Crystal	Tephroite
Manganite	Rose	Zinc Tephroite
Manganaxinite	Smoky	Thomsonite
Manganosite	Rammelsbergite	Thorite
Manganpyrosomalite	Realgar	Titanite
Marcasite	Rhodochrosite	Todorokite
Margarite	Rhodonite	Torreyite
Margarasanite	Riebeckite	Tremolite
Mcgovernite	Roebbingite	Asbestos
Mellanterite	Rosasite	Byssolite
Metastrengite	Roweite	Uraninite
Microcline Barian	Rutile	Uranophane
Microcline	Sarkinite	Uvarovite
Millerite	Sauconite	Uvite
Molybdenite	Scapolite	Vesuvianite Cyprine
Mooreite	Schallerite	Willemite
Muscovite	Ferroshallerite	Wollastonite
Fuchsite	Scheelite	Woodruffite
Oellacherite	Scorodite	Wurtzite
Nasonite	Serpierite	Xonotllite
Natrolite	Serpentine, Antigorite	Yeatmanite
Neotocite	Chrysotile	Zinalsite
Nicolite	Siderite	Zincite
Nickel-skutterudite,	Sillimanite	Zircon
chloanthite	Silver	Zoisite
Norbergite	Skutterudite Smaltite	
Orpiment	Smithsonite	
Orthoclase	Sonolite Zinc Sonolite	
Pararammelsbergite	Spessartine	
Pargasite	Sphalerite	
Pectolite		
Pharmacolite		
Pharmacosiderite		
Phlogopite		
Plagioclase, Albite		
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FRANKLIN ATTRACTIONS AND INFORMATION

[A review of current facilities]

There are only two public collection areas, the Buckwheat Dump and the Trotter Mineral Dump. All other localities are privately owned and permission to collect must be previously obtained — generally only to organized groups for supervised field trips.

Buckwheat Dump is located behind the Franklin Mineral Museum on Evans Street, Franklin, N.J. Entrance is gained through the Mineral Museum and is always open to collectors. The daily fee for adults is \$1.50. During the summer of 1976, the Trustees of the Franklin Mineral Museum authorized the dump to be "turned over" to unearth more specimens.

The nearby Trotter Mineral Dump is located on Mine Hill and access is off of Main Street, Franklin, N.J. (behind the bank). It is privately operated and is open all year except in inclement weather. If no one is at the dump, a phone call to the manager, Nick Zipco, will bring the appropriate information. A daily collecting fee of \$2.00 for adults is charged.

The town of Franklin also has two Mineral Museums. The Franklin Mineral Museum, Evans St., is a community project originated and sponsored by the Franklin Kiwanis Club. It features a well rounded exhibit of minerals, a fascinating, two-story mine replica, mining relics and other memorabilia, and one of the world's largest fluorescent displays. It sells minerals, lapidary equipment, fluorescent equipment, reference material and jewelry. It is a most important repository for information and relics of Franklin History and in this aspect is aided most generously by the F.O.M.S. and its publication "The Picking Table" and museum curator Jack Baum. The season for the Franklin Mineral Museum begins April 1 and closes November 30. There is a nominal daily fee. Various Memberships are available beginning with an Annual Membership (\$5/yr.) to a Lifetime Membership (\$50). Consult the museum manager or curator.

The GERSTMANN Franklin Mineral Museum, 14 Walsh Road, is open year round on weekends or weekdays by previous arrangement, courtesy of Ewald and Helen Gerstmann. A prior telephone call is greatly appreciated. There is no admission fee and the owners have some minerals for sale.

For those who wish to purchase minerals by mail, we suggest those dealers exhibiting at the Franklin Mineral Show and those advertising in this booklet. These people, along with those advertising in Lapidary Journals are equipped to handle such business. The local sources above rarely accept mail business.

At present, neither the New Jersey Zinc Company nor the Franklin Chamber of Commerce handle unsolicited requests for mineral specimens and permission to visit the mine workings.

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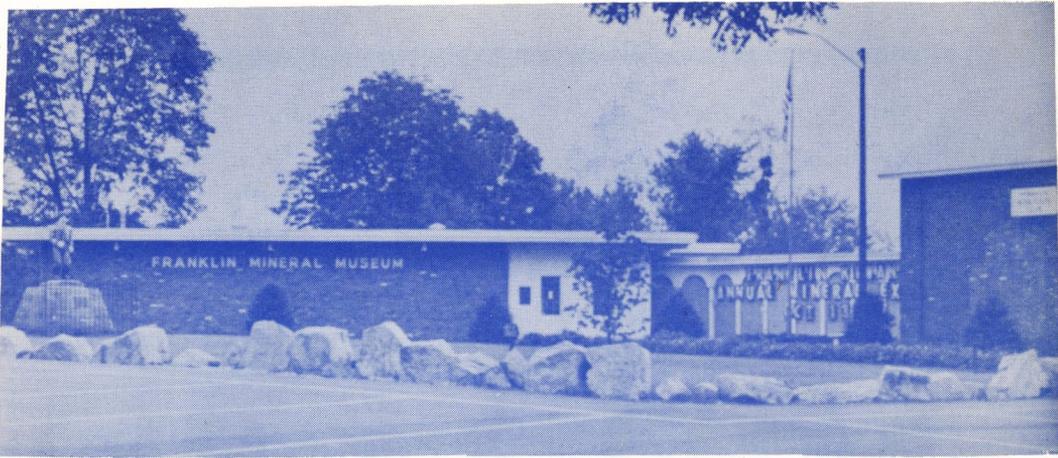


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THE FRANKLIN MINERAL MUSEUM and MINE REPLICA

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Groups by appointment

Admission: Adults 1.50 - High School .75 - Grade School



*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

JOIN - Be a member of the Franklin Mineral Museum