

MINERAL

OCT. 8th & 9th, 1966



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FRANKLIN UNIQUE IN VARIETY OF ORES

The Town 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 194 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 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.

FRANKLIN UNIQUE IN VARIETY OF ORES

Ample parking is available on the property which overlooks the Upper Wallkill Valley and the noted Buckwheat Open Cut.

To date, a comprehensive collection of Franklin minerals and a large number of pamphlets and other publications, photographs, maps and the like have been received. A years membership card, cost \$5.00, entitles the bearer to unlimited visiting privileges for one year.

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Actinolite
Cummingtonite
Hornblende
Edenite
Tremolite

Tremolite
Analcime
Anglesite
Anhydrite
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Arsenopyrite

Aurichalcite
Axinite
Ferroan
Manganoan
Azurite
Barite

Barylite
Barysilite
Bementite
Biotite
Birnessite

Bornite
Brandtite
Brookite
Bustamite
Cahnite

CalcioThomsonite

Calcite
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Celestite
Cerussite
Chabazite
Chalcocite
Chalcophanite
Chalcopyrite
Chlorite

Chloropal, Nontronite

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MINERALS OF THE FRANKLIN-STERLING AREA, 1966

Chlorophoenicite Fluorite Hastingsite
Chondrodite Franklinite Hausmannite
Chrysocolla Friedelite Hedyphane
Clinohedrite Gageite Hematite
Copper

CopperGahniteHemimorphite(Calamine)CorundumGalenaHendricksiteCorelliteGanophylliteHetaerolite

Heulandite Cryptomelane Garnet Hexahydrite Almandite Cuprite Hodakinsonite Andradite Cuspidine Holdenite Grossularite **Datolite** Hortonolite Spessartite **Botryolite** Hyalophane Gersdorfite Desgulesite **Hydrohetaerolite** Glaucochroite Descloizite

Dioptase Goethite (Limonite) Hydrozincite
Dolomite Gold Idocrase (Vesuvianite)

Epidote Graphite Cyprine

Erythrite Greenockite Ilmenite

Esperite Gypsum Johannsenite

(formerly Ca-Larsenite) Halloysite, Zinalsite Kaolinite
Ettringite Hancockite Kentrolite
Feitknechtite Hardystonite Kutnahorite
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MINERALS OF THE FRANKLIN-STERLING AREA, 1966

Lead Muscovite Pyroxene Leucophoenicite **Oellacherite** Augite (Jeffersonite) Lingrite Damourite Diopside Lollingite Hedenbergite Nasonite Loseyite Natrolite Schefferite Magnesium-chlorophoenicite Neotocite **Pyrrhotite** Magnetite Niccolite Quartz Magnussonite Norbergite Agate Malachite Oligoclase Flint Manaanberzeliite Orpiment Jasper Manaanbrucite Orthoclase Milky **Pararammelsbergite** Manganite Rock Crystal Manganosite **Pectolite** Rose Manganpyrosmalite **Phlogopite** Smoky Marcasite **Powellite** Rammelsbergite Margarite Prehnite Realaar Margarosanite Psilomelane Rhodochrosite Mcgovernite Pyrite Rhodonite

Pyroaurite

Pyrochroite

Pyrophyllite

Pyrolusite

Melanterite

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MINERALS OF THE FRANKLIN-STERLING AREA, 1966

Sarkinite Scapolite Schallerite Scheelite

Serpentine Antigorite

Vorhauserite Chrysotile Siderite

Sillimanite Silver

Skutterudite Smithsonite Sphalerite

Cleiophane Marmatite Sphene (Titanite)

Spinel Stilbite

Stilpnomelane

Sussexite Svabite

Talc Tennantite

Tephroite Picrotephroite

Thorite
Todorokite
Torreyite

Tourmaline Dravite Schorl Uraninite Voltzite

Vredenburgite
Willemite
Wollastonite
Woodruffite

Wurtzite Xonotlite Yeatmanite Zincite

Zircon Zoisite

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*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)

Fluoborite—Purple

*Fluorite-Green

Hardystonite—Purple

Hydrozincite-Blue

Margarosanite-Blue

Microcline-Blue-White

Nasonite-Blue

Norberaite—Cream

Pectolite-Orange

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

Phlogopite-Yellow

Powellite-Yellow

Scapolite-Blue Scheelite-Yellow

*Smithsonite—Cream

*Sphalerite-Red & Blue

Svabite-Red

Tourmaline-Yellow

Tremolite-Blue

Willemite-Green & Yellow

Wollastonite-Orange

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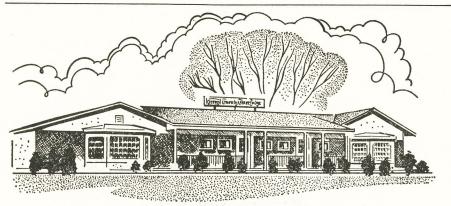
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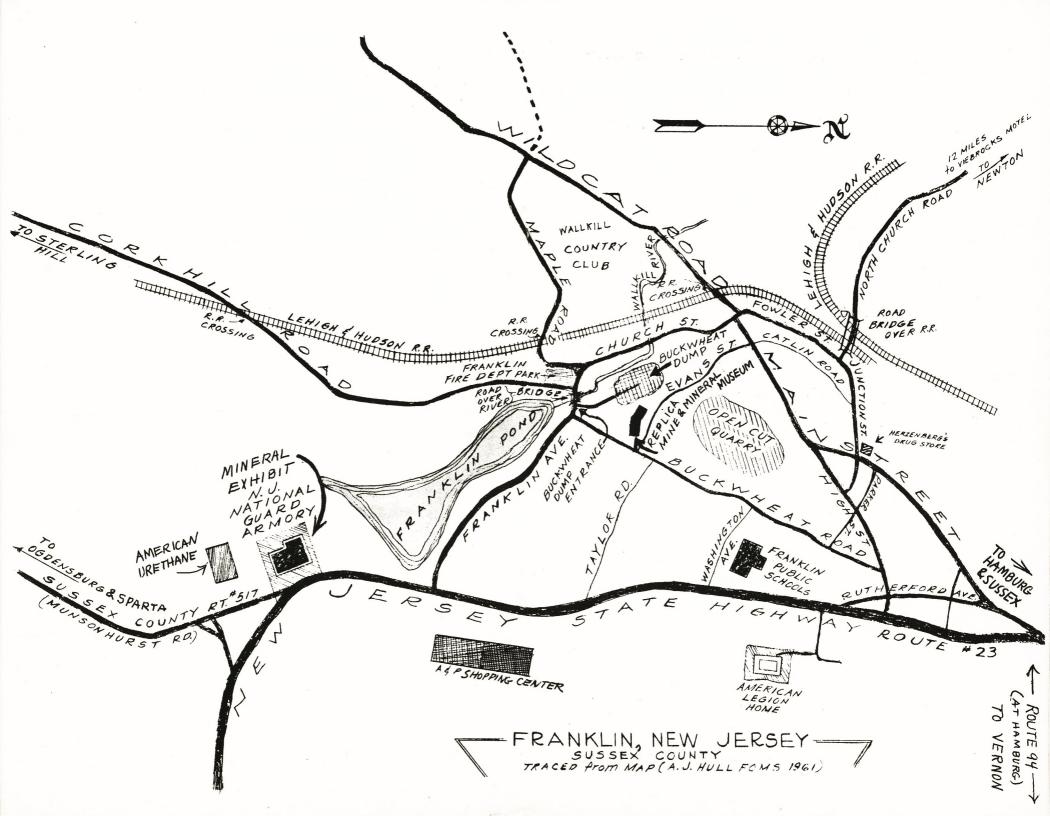
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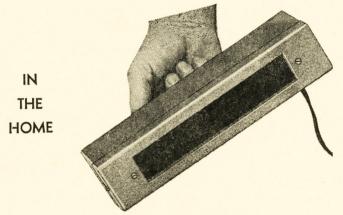
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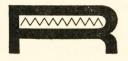


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