

39th ANNUAL

Franklin - Sterling

GEM & MINERAL
SHOW

Friday, Saturday & Sunday
Sept. 29th, 30th & Oct. 1st, 1995

Sponsored by



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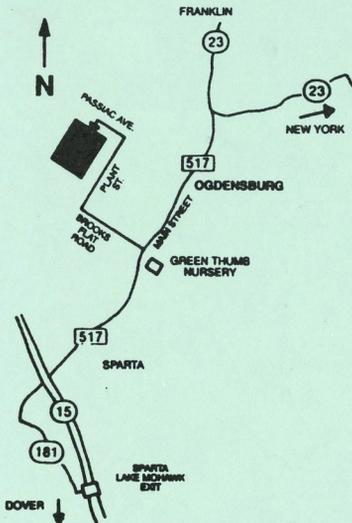
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ADULT	7.50
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SENIOR CITIZEN	6.50

GROUP RATES

For 10 or more, reservations are required for
a \$1.00 discount per person
School Groups: Call for information

HOURS

OPEN 7 DAYS A WEEK
10 A.M. TO 5 P.M.
LAST TOUR AT 3:30 P.M.

Jacket or Sweater Recommended
Proper Footwear required

For Information Call

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*Tours at 1 P.M. & 3 P.M.
or by appointment

COLLECTING AVAILABLE

Last Sunday of each month thru November 10:00 am - 3:00 pm

DEDICATION

The show committee of the Franklin Mineral Museum takes great pleasure in dedicating this bulletin of the Franklin-Sterling Gem and Mineral Show for 1995 to Mr. Nick Zipco. Born November 2, 1912, Nick moved to Franklin, New Jersey with his family when he was 12 years old. They came from the heart of Pennsylvania coal mining country, Oceola Mills, Pa., where his father was a coal miner. His father was a zinc miner at Franklin until he was badly injured in a mine accident and could no longer work. Nick brought with him two Franklin mineral specimens given to him when he was 7 years old by a coal miner (*who formerly worked in the Franklin mine*) staying at his mother's boarding house. These two specimens were the beginning of the legendary "Nick Zipco" collection of Franklin minerals. Nick has preserved the most comprehensive collection of "ore associated" mineral assemblages from the Franklin mine in the world. He also has a very fine collection of Sterling Hill minerals. He was one of the original exhibitors for the earliest Franklin Mineral Shows held at The "Nabe" (neighborhood house). He was involved in the process of acquisition and preservation of the Buckwheat Dump property now owned by the Town of Franklin and operated by the Franklin Mineral Museum. Nick has much more to his credit including running Trotter Dump for many years and helping out around the museum. But his biggest contribution has been captivating thousands of people young and old who have visited and continue to visit Franklin and Sterling Hill, by telling stories of working in the mines and spreading his knowledge about Franklin minerals to students and collectors. From time to time we still hear people say, "what would Franklin be without Nick Zipco?" There are few words which can describe the appreciation for what this great man has done for Franklin and Sterling Hill.



The Franklin-Sterling Hill area
Mineral Species List

Compiled from numerous sources by Pete J. Dunn of the Smithsonian Institution and John L. Baum, Curator of the Franklin Mineral Museum, in May, 1995, following the nomenclature of the Glossary of Mineral Species (Fleischer, 1991). Procedures for adding species to this list are given in The Picking Table, 28. #1, pages 4-5 (1987).

Acanthite	Cahnite	Fayalite
Actinolite	Calcite	Feitknechtite
Adamite	Canavesite	Ferrimolybdate
Adelite	Carrollite	Ferristilpnomelane
Aegirine	Caryopillite	Ferroaxinite
Akrochordite	Celestine	Flinkite
Albite	Celsian	Fluckite
Allactite	Cerussite	Fluoborite
Allanite-(Ce)	Chabazite	Fluorapatite
Alleghanyite	Chalcocite	Fluorapophyllite
Almandine	Chalcophanite	Fluorite
Analcime	Chalcopyrite	Forsterite
Anandite	Chamosite	Fraipontite
Anatase	Charlesite	Franklinfurnaceite
Andradite	Chloritoid	Franklinite
Anglesite	Chlorophoenicite	Franklinphillite
Anhydrite	Chondrodite	Friedelite
Annabergite	Chrysocolla	
Anorthite	Cianciulliite	Gageite-1Tc
Anorthoclase	Clinoclare	Gageite-2M
Antlerite	Clinochrysolite	Gahnite
Aragonite	Clinoclase	Galena
Arsenic	Clinohedrite	Ganomalite
Arseniosiderite	Clinohumite	Ganophyllite
Arsenopyrite	Clinozoisite	Genhelvite
Atacamite	Clintonite	Gerdsdorffite
Augite	Conicalcrite	Gerstmannite
Aurichalcite	Connellite	Glaucochroite
Aurorite	Copper	Goethite
Austinite	Corundum	Gold
Azurite	Covellite	Goldmanite
Bakerite	Cryptomelane	Graphite
Bannisterite	Cuprite	Greenockite
Barite	Cuprostibite	Grossular
Barium-pharmacosiderite	Cuspidine	Grouitite
Barylite		Guerinite
Barysilite	Datolite	Gypsum
Bassanite	Descloizite	
Bastnaesite-group mineral	Devilline	Haidingerite
Baumhauerite	Digenite	Halotrichite
Bementite	Diopside	Hancockite
Berthierite	Djurleite	Hardystonite
Bianchite	Dolomite	Hastingsite
Biotite	Domeykite	Hauckite
Birnessite	Dravite	Hausmannite
Bornite	Duftite	Hawleyite
Bostwickite	Dypingite	Hedenbergite
Brandtite	Edenite	Hedyphane
Breithauptite	Epidote	Hematite
Brochantite	Epsomite	Hematolite-like-mineral
Brookite	Erythrite	Hemimorphite
Brucite	Esperite	Hendricksite
Bultfonteinite	Euchroite	Hercynite
Bustamite	Eveite	Hetaerolite

Heulandite	Molybdenite-2H	Schorl
Hexahydrite	Monohydrocalcite	Sclarite
Hodgkinsonite	Mooreite	Scorodite
Holdenite	Muscovite	Seligmannite
Huebnerite		Sepiolite
Humite	Nasonite	Serpierite
Hyalophane	Natrolite	Siderite
Hydrohetaerolite	Nelenite	Sillimanite
Hydrotalcite	Neotocite	Silver
Hydroxyapophyllite	Niahite	Sjogrenite
Hydrozincite	Newberyite	Skutterudite
Illite	Nickeline	Smithsonite
Ilmenite	Nontronite	Sonolite
Jacobsite	Norbergite	Spangolite
Jarosewichite		Spessartine
Jerrygibbsite	Ogdensburgite	Sphalerite
Johannsenite	Ojuelaite	Spinel
Johnbaumite	Orthochrysotile	Starkeyite
Junitoite	Orthoclase	Sterlinghillite
Kaolinite	Orthoserpierite	Stibnite
Kentrolite	Otavite	Stilbite
Kittatinnyite	Oyelite-like mineral	Stilpnomelane
Koettigite		Strontianite
Kolicite	Parabrandtite	Sulfur
Kraisslite	Pararammelsbergite	Sussexite
Kutnohorite	Parasymplesite	Svabite
Larsenite	Pargasite	Synadelphite
Laumontite	Pectolite	
Lawsonbauerite	Pennantite	Talc
Lead	Petedunnite	Tennantite
Legrandite	Pharmacolite	Tephroite
Lennilenapeite	Pharmacosiderite	Tetrahedrite
Leucophoenicite	Phlogopite	Thomsonite
Linarite	Picropharmacolite	Thorite
Liroconite	Piemontite	Thortveitite
Lizardite	Pimelite	Tilasite
Loellingite	Powellite	Tiroadite
Loseyite	Prehnite	Titanite
	Pumpellyite-(Mg)	Todorokite
	Pyrite	Torreyite
Magnesiohornblende	Pyroaurite	Tremolite
Magnesioriebeckite	Pyrobelonite	Turneaureite
Magnesium-chlorophoenicite	Pyrochroite	
Magnetite	Pyrophanite	Uraninite
Magnussonite	Pyroxmangite	Uranophane
Malachite	Pyrrhotite	Uranospinite
Manganaxinite		Uvite
Manganberzeliite	Quartz	
Manganese-hoernesite		Vesuvianite
Manganhumite	Rammelsbergite	Villyaellenite
Manganite	Realgar	
Manganosite	Retzian - (La)	Wallkilldellite
Manganpyrosomalite	Retzian - (Nd)	Wawayandaite
Marcasite	Rhodochrosite	Wendwilsonite
Margarite	Rhodonite	Willemite
Margarosanite	Richterite	Wollastonite
Marialite	Roebingite	Woodruffite
Marsturite	Romeite	Wulfenite
Mcallisterite	Rosasite	Wurtzite
Mcgovernite	Rowelite	
Meionite	Rutile	Xonotlite
Melanterite*		Yeatmanite
Meta-ankoleite	Safflorite	Yukonite
Metalodevite	Samflowerite	Zinalsite
Metazeunerite	Sarkinite	Zincite
Microcline	Sauconite	Zinkenite
Mimetite	Schallerite	Zircon
Minehillite	Scheelite	Znucalite

* reported but not confirmed with certainty.

Fluorescent Minerals of Franklin and Sterling Hill, N.J

A 1994 CHECK-LIST BASED ON OBSERVATIONS BY RICHARD C. BOSTWICK

FL = fluoresces; PH = phosphoresces; SW = shortwave ultraviolet radiation;
LW = longwave ultraviolet radiation

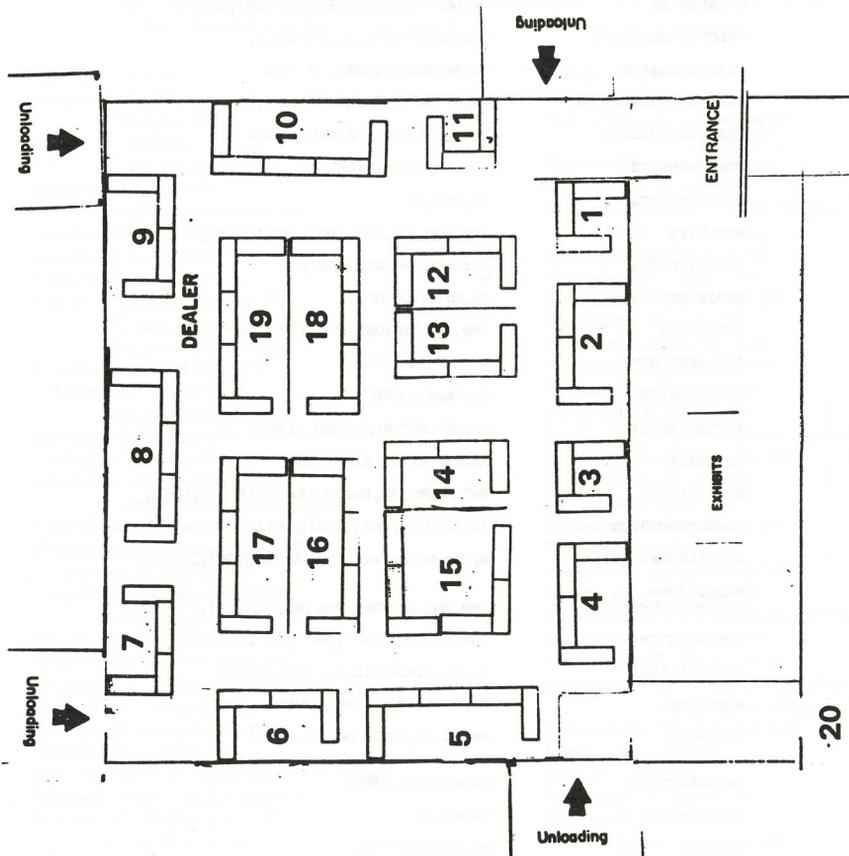
These descriptions are necessarily brief and hence simplistic. the ultraviolet wavelength (SW or LW) listed with a fluorescent response is the wavelength for which the response is stronger; many listed minerals fluoresce under both LW and SW. Unusual fluorescent responses are listed in parentheses. Fluorescent intensity and subtle differences in hue are not mentioned.

While mineral fluorescence is a powerful tool for rapid mineral identification, it should be used in conjunction with other identification techniques.

- Albite:** FL red SW
Aragonite: FL,PH cream LW
(FL green SW)
Barite: FL cream SW
(FL tan LW, green SW)
Barylite: FL violet SW
conspicuous under iron arc
Bassanite: FL, PH violet SW
Bustamite: FL red LW
Cahnite: FL cream SW
Calcite: FL red w/red-orange PH
(FL pink, orange, cream, green,
blue, yellow, violet etc.)
Canavassite: FL,PH violet LW
Celestine: FL cream LW
(FL violet SW)
Cerussite: LW yellow LW
Chabazite: FL green SW
Charlesite: FL pale blue SW, but
coated with cream FL gypsum
Chondrodite: FL yellow SW
Clinohedrite: FL orange-yellow SW
Corundum: FL deep-red LW
Cuspidine: FL orange-yellow SW
brief orange-red PH
Datolite: FL cream SW
Diopside: FL blue SW, cream LW
Dypingite: FL,PH, blue SW, LW
Epsomite: FL cream LW
Esperite: FL lemon-Yellow SW
Fluoborite: FL cream SW
Fluorapatite: FL orange or blue SW (FL "peach")
Fluorapophyllite: FL, PH white SW
Fluorite: FL, PH blue-green SW,
LW or FL violet LW
Guerinite: FL white SW
Gypsum: FL pale blue or cream SW
Hardystonite: FL violet SW
Hedyphane: FL cream or orange SW
Hemimorphite: FL, PH white LW
(FL green SW)
Hodgkinsonite: FL deep red LW
Humite: FL weak pale-yellow SW
Hyalophane: FL red SW
Hydrocalcite: FL cream LW
Hydroxapophyllite: FL, PH weak white SW
Johnbaumite: FL orange SW
Junitoite: FL pale yellow LW
Magnesio-hornblende: FL greenish-blue SW
Manganaxinite: FL red SW
Margarite: FL blue SW
Margarosanite: FL blue and red SW
(FL orange LW)
Marialite: FL yellow SW, pink LW
Mcallisterite: FL cream SW
Meionite: FL pinkish-red SW (FL pink,
orange, yellow etc.)
Meta-ankoleite: FL green SW
Metaldevite: FL green SW
Microcline: FL blue or red SW
Minehillite: FL violet SW
Monohydrocalcite: FL green SW
Nasonite: FL pale Yellow SW
Newberryite: FL cream SW
Norbergite: FL yellow SW
Oyelite-like mineral: FL violet and White LW
Pargasite: FL greenish-blue SW
Pectolite: FL, PH orange SW
Phlogopite: FL yellow SW
Picropharmacolite: FL white LW
Powellite: FL yellow SW
Prehnite: FL pinkish orange SW
Quartz: yellow or green SW
Roebbingite: FL red w/red-orange PH SW
Samfowlerite: weak red SW
Smithsonite: FL, PH white SW
Sphalerite: FL, PH orange, blue, yellow-orange
or orange-yellow LW, poor FL SW
***Strontianite:** FL violet SW, LW
Svabite: FL orange SW
Talc: FL cream SW
Thomsonite: FL cream SW
Tilasite: FL yellow SW
Titanite: FL yellow-orange SW
Tremolite: FL blue SW (FL yellow LW)
Turneaureite: FL orange SW
Uranospinitite: FL green SW
Uvite: FL yellow SW
Willemite: FL, PH green SW. Also FL, PH
yellow, greenish-yellow, orange
Wollastonite: FL, PH orange to yellow SW
Xonotlite: FL violet SW
Zincite: FL yellow SW
Zircon: FL orange SW
Zuacalite: FL green SW
- Total = 81 FL species reported
*added to list

MINERALS UNIQUE TO FRANKLIN AND STERLING HILL

BOSTWICKITE	$\text{CaMn}^{3+}_2\text{Si}_2\text{O}_{16} \cdot 7\text{H}_2\text{O}$
CHARLESITE	$\text{Ca}_4(\text{Al}, \text{Si})_2(\text{SO}_4)_2[\text{B}(\text{OH})_4](\text{OH})_{12} \cdot 26\text{H}_2\text{O}$
CHLOROPHOENICITE	$\text{Mn}_2\text{Zn}_2(\text{OH})_6[\text{AsO}_4\text{H}_2\text{O}_5(\text{O}, \text{OH})_2]_2$
CIANCIULLIITE	$\text{Mn}(\text{Mg}, \text{Mn})_2\text{Zn}_2(\text{OH})_{10} \cdot 2-4\text{H}_2\text{O}$
FRANKLINFURNACEITE	$\text{Ca}_2\text{Fe}^{3+}\text{Mn}^{2+}\text{Mn}^{3+}\text{Zn}_2\text{Si}_2\text{O}_{10}(\text{OH})_6$
FRANKLINPHILITE	$\text{K}_4\text{Mn}_{40}(\text{Si}, \text{Al})_{72}(\text{O}, \text{OH})_{216} \cdot 2\text{H}_2\text{O}$
GERSTMANNITE	$(\text{Mg}, \text{Mn})_2\text{ZnSiO}_4(\text{OH})_2$
HARDYSTONITE	$\text{Ca}_2\text{ZnSi}_2\text{O}_7$
HAUCKITE	$(\text{Mn}, \text{Mg})_{24}\text{Zn}_{10}\text{Fe}^{3+}(\text{SO}_4)_4(\text{CO}_3)_2(\text{OH})_{61}$
HENDRICKSITE	$\text{K}(\text{Zn}, \text{Mg})_3\text{Si}_3\text{AlO}_{10}(\text{OH})_2$
HODGKINSONITE	$\text{Zn}_2\text{Mn}(\text{SiO}_4)(\text{OH})_2$
HOLDENITE	$(\text{Mn}, \text{Mg})_2\text{Zn}_3(\text{OH})_6(\text{AsO}_4)_2(\text{SiO}_4)$
JAROSEWICHITE	$\text{Mn}_2\text{Mn}^{3+}(\text{AsO}_4)(\text{OH})_6$
JOHNBAUMITE	$\text{Ca}_2(\text{AsO}_4)_2(\text{OH})$
KITTATINNYITE	$\text{Ca}_4\text{Mn}^{3+}\text{Mn}^{2+}_2\text{Si}_4\text{O}_{16}(\text{OH})_4 \cdot 18\text{H}_2\text{O}$
KOLICITE	$\text{Mn}_2\text{Zn}_4(\text{AsO}_4)_2(\text{SiO}_4)_2(\text{OH})_6$
KRAISSLITE	$\text{Fe}^{2+}_2\text{Mg}_2\text{Mn}_{44}\text{Zn}_4(\text{AsO}_4)_6(\text{AsO}_3)_4(\text{SiO}_4)_{12}(\text{OH})_{36}$
LAWSONBAUERITE	$(\text{Mn}, \text{Mg})_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
LENNILENAPEITE	$\text{K}_6(\text{Mg}, \text{Mn}, \text{Zn}, \text{Fe})_{48}(\text{Si}, \text{Al})_{72}(\text{O}, \text{OH})_{216} \cdot 16\text{H}_2\text{O}$
MAGNESIUM- CHLOROPHOENICITE	$(\text{Mg}, \text{Mn})_2\text{Zn}_2(\text{OH})_6[\text{AsO}_4\text{H}_2\text{O}_5(\text{O}, \text{OH})_2]_2$
MCGOVERNITE	$(\text{Mn}, \text{Mg}, \text{Zn})_{277}\text{As}^{3+}_{12}\text{As}^{5+}_{30}\text{Si}_{42}\text{O}_{324}(\text{OH})_{252}$
MINEHILLITE	$\text{K}_{2-3}\text{Ca}_{20}[\text{Zn}_4\text{Al}_4\text{Si}_{40}\text{O}_{112}(\text{OH})_4](\text{OH})_{12}$
MOOREITE	$\text{Mg}_2\text{Mn}_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{26} \cdot 8\text{H}_2\text{O}$
NELENITE	$\text{Mn}_{16}\text{Si}_{12}\text{O}_{30}(\text{OH})_{14}[\text{As}^{3+}_3\text{O}_6(\text{OH})_3]$
PARABRANDTITE	$\text{Ca}_2\text{Mg}(\text{AsO}_4)_2 \cdot 2\text{H}_2\text{O}$
PETEDUNNITE	$\text{CaZnSi}_2\text{O}_6$
RETZIAN - (La)	$\text{Mn}_2\text{La}(\text{AsO}_4)(\text{OH})_4$
RETZIAN - (Nd)	$\text{Mn}_2\text{Nd}(\text{AsO}_4)(\text{OH})_4$
SAMFOWLERITE	$\text{Ca}_{14}\text{Mn}_3\text{Zn}_3(\text{Zn}, \text{Be})_2\text{Be}_6(\text{SiO}_4)_6(\text{Si}_2\text{O}_7)_4(\text{OH}, \text{F})_6$
SCLARITE	$(\text{Zn}, \text{Mn}, \text{Mg})_4\text{Zn}_3(\text{CO}_3)_2(\text{OH})_{10}$
STERLINGHILLITE	$\text{Mn}_3(\text{AsO}_4)_2 \cdot 4\text{H}_2\text{O}$
TORREYITE	$(\text{Mg}, \text{Mn})_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
WALLKILLDELLITE	$\text{Ca}_4\text{Mn}^{2+}_2\text{As}^{5+}_2\text{O}_{16}(\text{OH})_8 \cdot 18\text{H}_2\text{O}$
WAWAYANDAITE	$\text{Ca}_{22}\text{Mn}_4\text{B}_2\text{Be}_{18}\text{Si}_{12}\text{O}_{46}(\text{OH}, \text{Cl})_{30}$
YEATMANITE	$[\text{Mn}_2\text{Sb}_2][\text{Mn}_2\text{Zn}_4\text{Si}_4]\text{O}_{28}$



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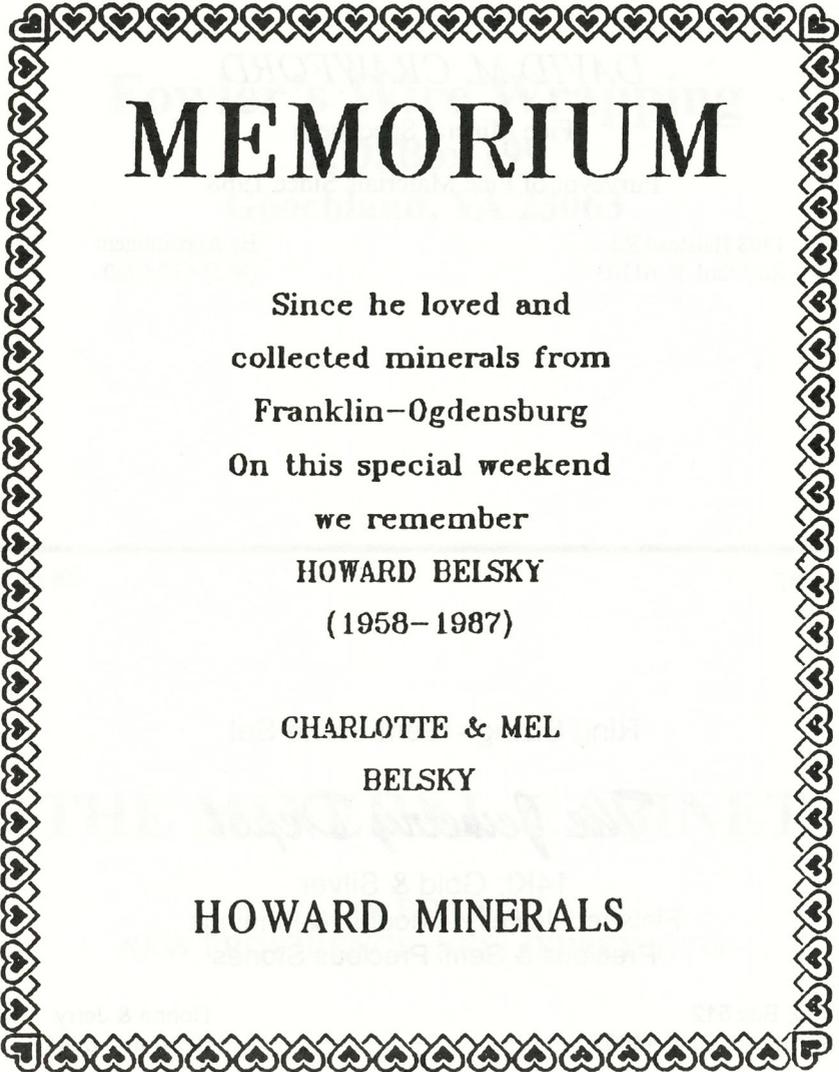
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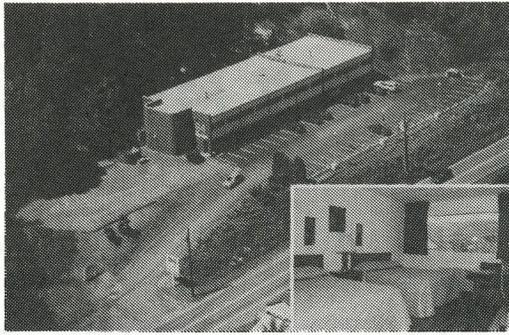
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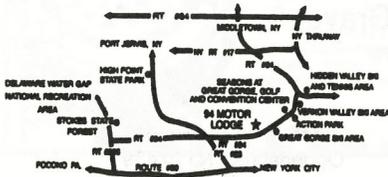
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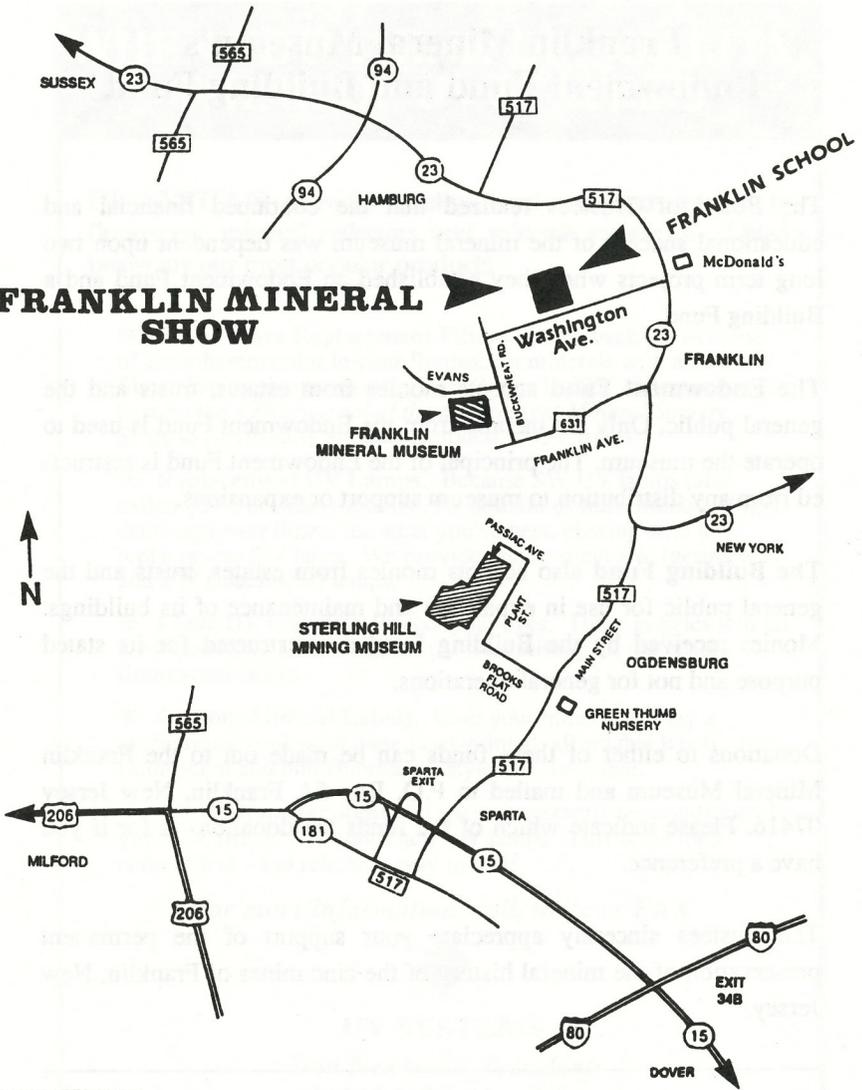
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Special thanks to all exhibitors, the Franklin- Ogdensburg Mineralogical Society, and to the Staff and Board of Trustees of the Franklin Mineral Museum. Your efforts add to the success of the Franklin-Sterling Gem and Mineral Show and perpetuation of the Franklin Mineral Museum.

FOMS EXECUTIVE BOARD

FRANKLIN MINERAL SHOW



*MAP NOT TO SCALE

Franklin Mineral Museum's Endowment Fund and Building Fund

The Board of Trustees realized that the continued financial and educational success of the mineral museum was dependent upon two long term projects when they established an Endowment Fund and a Building Fund.

The Endowment Fund accepts monies from estates, trusts and the general public. Only the income from the Endowment Fund is used to operate the museum. The principal of the Endowment Fund is restructured from any distribution to museum support or expansions.

The Building Fund also accepts monies from estates, trusts and the general public for use in expansion and maintenance of its buildings. Monies received by the Building Fund are restructured for its stated purpose and not for general operations.

Donations to either of these funds can be made out to the Franklin Mineral Museum and mailed to P.O. Box 54, Franklin, New Jersey 07416. Please indicate which of the funds the donations is for if you have a preference.

The trustees sincerely appreciate your support of the permanent preservation of the mineral history of the zinc mines of Franklin, New Jersey.

All donations to the Endowment Fund and Building Fund are tax deductible.

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THE SEVENTEENTH ANNUAL F.O.M.S. DINNER
AND

AUCTION

SEPTEMBER 30, 1995

THE PLACE - THE LYCEUM HALL, IMMACULATE CONCEPTION CHURCH, 75 CHURCH STREET, FRANKLIN, N. J. . ABOUT 3 MINUTES BY AUTO FROM THE FRANKLIN ELEMENTARY SCHOOL, THE SITE OF THE 39th ANNUAL FRANKLIN-STERLING GEM AND MINERAL SHOW.

THE TIME - SOCIAL HOUR BEGINS AT 6:30 p.m.; DINNER BEGINS AT 7:00 p.m.

SPEAKER - DR. WILLIAM A. HENDERSON JR. WORKED FOR AMERICAN CYANAMID CO. AS A RESEARCH CHEMIST FOR 33 YEARS AND TAUGHT GEOLOGY AT FAIRFIELD UNIVERSITY.

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ABOUT THE SPEAKER

DR. HENDERSON HAS A BA FROM HARVARD, AND MS AND PhD FROM YALE, ALL IN ORGANIC CHEMISTRY. HE HAS COLLECTED MINERALS FOR 38 YEARS; AND HAS A COLLECTION OF 12,000 MICROMOUNTS AND 1,240 SPECIES. HE WRITES A COLUMN AND SCIENTIFIC ARTICLES FOR THE MINERALOGICAL RECORD. THE MINERAL WILLHENDERSONITE IS NAMED FOR HIM, AND WAS FIRST RECOGNIZED BY HIM AS A NEW SPECIES.

TICKETS ARE \$17.50 EACH

LECTURE PROGRAM

SATURDAY SEPT. 30 & SUNDAY OCT. 1 AT 2 PM FRANKLIN ELEMENTARY SCHOOL

"EYES OF THE WORLD"

MR. HENRY F. KENNEDY "PRINCE OF CAT'S EYES" WILL LECTURE ABOUT CHRYSOBERYL AND ALAXANDRITE FROM THE PEGMATITE DISTRICTS IF MINAS GERAIS, BRAZIL. FEATURING THE "MONA LISA", 18.50 CARAT ALEXANDRITE CAT'S EYE, ONE OF THE

WORLD'S LARGEST!

MR. KENNEDY WILL HAVE ON DISPLAY SOME VERY FINE GEMS FROM BRAZIL TO BE ENJOYED BY ALL THROUGHOUT THE WEEKEND!

SPANISH TREASURE AT GEM AND MINERAL SHOW!

THE GEMMERY OF PALM COAST, FLORIDA WILL DISPLAY OVER 900 CARATS OF EMERALD CRYSTALS (UNCUT AND UNTREATED), 3 EMERALDS WHICH WERE FACETED IN MEXICO BETWEEN 1500 AND 1600, 2 RINGS WITH RECUT EMERALDS AND A REPRODUCTION OF THE CORTEZ SIGNET RING. THESE RARE STONES WERE SALVAGED FROM THE WRECKAGE OF A SPANISH GALLEON WHICH WAS CARRYING EMERALDS, JEWELRY AND AZTEC ARTIFACTS BACK TO SPAIN. A 30 MINUTE VIDEO DOCUMENTARY OF THE ARTIFACTS AND THEIR RECOVERY WILL BE SHOWN CONTINUOUSLY DURING THE SHOW!

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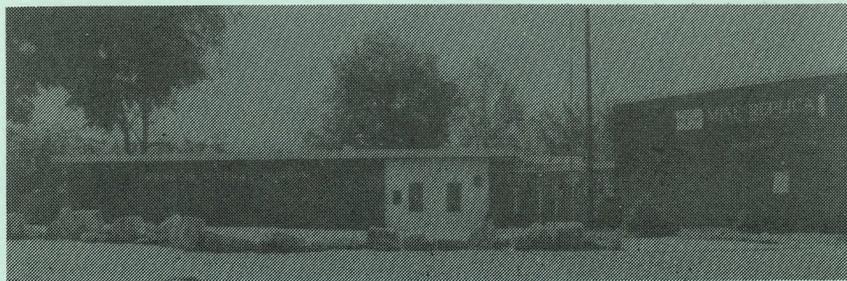
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