

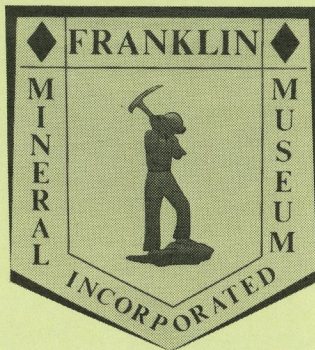
37th ANNUAL

Franklin - Sterling

GEM & MINERAL
SHOW

Sat. & Sun., Oct. 2nd & 3rd, 1993

Sponsored by



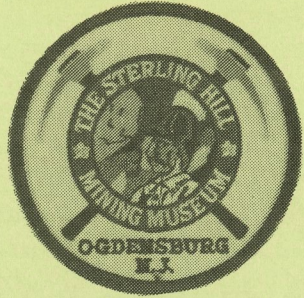
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STERLING HILL MINING MUSEUM

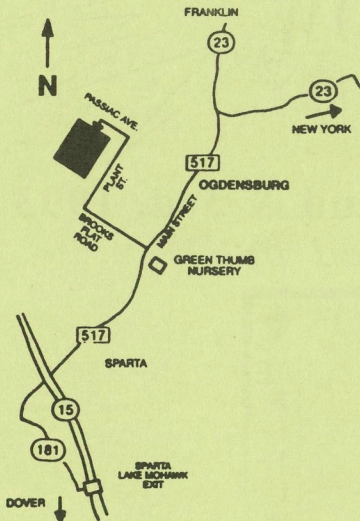
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Dedication

The Bulletin for the 1993 Franklin Mineral Show is dedicated to Pete J. Dunn. In many ways, the 1993 show is a combination of tradition and new directions. The new location for the event, with different and larger spaces, offers challenges and opportunities for the future, but traditional activities that have been associated with the show for many years will continue to take place in the new surroundings. It is fitting that a turning point in the history of the Franklin Show should be dedicated to Pete Dunn. Born November 10, 1942, Pete specialized in mineralogy and received his Ph.D. from the University of Delaware. He has been in the Department of Mineral Sciences at the Smithsonian Institution for many years where he has helped make the United States a world leader in the field of mineralogy. Among his 300 articles are the first publications of 25 new mineral species from the Franklin-Sterling Hill ore bodies. His present work deals with larger issues involving the ores and the skarns and mining history, so that he is currently unable to offer mineral identifications for interested parties. The dedication is an opportunity for the Franklin Mineral Museum and for those associated with the annual show to acknowledge Pete's important contributions and to wish him continued best wishes in his on-going research.



The FRANKLIN-STERLING HILL MINERALS

Compiled by Pete J. Dunn of the Smithsonian Institution
and John L. Baum of the Franklin Mineral Museum, July, 1993.

Acanthite	Chalcopyrite	Gersdorffite
Actinolite	Chamosite	Gerstmannite
Adamite	Charlesite	Glaucocroite
Adelite	Chlorophoenicite	Goethite
Aegirine	Chondrodite	Gold
Akrochordite	Chrysocolla	Goldmanite
Albite	Cianciulliite	Graphite
Allactite	Clinochlore	Greenockite
Allanite-(Ce)	Clinochrysoile	Grossular
Alleghanyite	Clinoclase	Groutite
Almandine	Clinohedrite	Guerinite
Analcime	Clinohumite	Gypsum
Anandite	Clinozoisite	
Anatase	Clintonite	Haidingerite
Andradite	Conichalcite	Halotrichite
Anglesite	Connellite	Hancockite
Anhydrite	Copper	Hardystonite
Annabergite	Corundum	Haastingsite
Anorthite	Covellite	Hauckite
Anorthoclase	Cryptomelane	Hausmannite
Antlerite	Cuprite	Hawleyite
Aragonite	Cuprostibite	Hedenbergite
Arsenic	Cuspidine	Hedyphane
Arseniosiderite		Hematite
Arsenopyrite	Datolite	Hematolite-like-mineral
Atacamite	Descloizite	Hemimorphite
Augite	Devilline	Hendricksite
Aurichalcite	Digenite	Hercynite
Aurorite	Diopside	Hetaerolite
Austinite	Djurleite	Heulandite
Azurite	Dolomite	Hexahydrate
	Domeykite	Hodgkinsonite
Bakerite	Dravite	Holdenite
Bannisterite	Dypingite	Huebnerite
Barite		Humite
Barium-pharmacosiderite	Edenite	Hyalophane
Barylite	Epidote	Hydrohetaerolite
Barysilite	Epsomite	Hydrotaalcite
Bassanite	Erythrite	Hydroxyapophyllite
Bastnaesite-group mineral	Esperite	Hydrozincite
Baumhauerite	Euchroite	
Bementite	Eveite	Illite
Berthierite		Ilmenite
Biotite	Fayalite	
Birnessite	Feitknechtite	Jacobsite
Bornite	Ferrimolybdite	Jarosewichite
Bostwickite	Ferristilpnomelane	Jerrygibbsite
Brandite	Ferroaxinite	Johannsenite
Breithauptite	Flinkite	Johnbaumite
Brochantite	Fluckite	Junitoite
Brookite	Fluoborite	
Brucite	Fluorapatite	Kaolinite
Bultfonteinite	Fluorapophyllite	Kentrolite
Bustamite	Fluorite	Kittatinnyite
	Forsterite	Koettigite
Cahnite	Franklinfurnaceite	Kolicite
Calcite	Franklinite	Kraisslite
Canavesite	Franklinphillite	Kutnohorite
Carrollite	Friedelite	
Caryophilite		
Celestine	Gageite-1Tc	
Celsian	Gageite-2M	
Cerussite	Gahnite	
Chabazite	Galena	
Chalcocite	Ganomalite	
Chalcophanite	Ganophyllite	
	Genthelvite	

Larsenite	Parabrandtite	Talc
Laumontite	Pararammelsbergite	Tennantite
Lawsonbauerite	Parasymplesite	Tephroite
Lead	Pargasite	Thomsonite
Legrandite	Pectolite	Thorite
Lennilenapeite	Pennantite	Thortveitite
Leucophoenicite	Petedunnite	Tilasite
Linarite	Pharmacolite	Tiroadite
Liroconite	Pharmacosiderite	Titanite
Lizardite	Phlogopite	Todorokite
Loellingite	Picroparmacolite	Torreyite
Loseyite	Pimelite	Tremolite
	Powellite	Turneaureite
	Prehnite	
Magnesiohornblende	Pumpellyite- (Mg)	Uraninite
Magnesianriebeckite	Pyrite	Uranophane
Magnesium-chlorophoenicite	Pyroaurite	Uranospinite
Magnetite	Pyrobelonite	Uvite
Magnussonite	Pyrochroite	
Malachite	Pyrophanite	Vesuvianite
Manganaxinite	Pyroxmangite	Villyaellenite
Manganberzeliite	Pyrrhotite	
Manganese-hoernesite		Wallkilldellite
Manganhumite	Quartz	Wawayandaite
Manganite		Wendwilsonite
Manganosite	Rammelsbergite	Willemite
Manganpyrosmalite	Realgar	Wollastonite
Marcasite	Retzian - (La)	Woodruffite
Margarite	Retzian - (Nd)	Wulfenite
Margarosanite	Rhodochrosite	Wurtzite
Marialite	Rhodonite	
Marsturite	Riebeckite	Xonotlite
Mcallisterite	Roebbingite	
Mcgovernite	Romeite	Yeatmanite
Meionite	Rosasite*	Yukonite
Melanterite*	Roweite	
Meta-ankoleite	Rutile	Zinalsite
Metalodevite		Zincite
Metazeunerite	Safflorite	Zinkenite
Microcline	Sarkinite	Zircon
Mimetite	Sauconite	Znucalite
Minehillite	Schallerite	
Molybdenite	Scheelite	
Monohydrocalcite	Schorl	
Mooreite	Sclarite	
Muscovite	Scorodite	
	Seligmannite	
Nasonite	Sepiolite	
Natrolite	Serpierite	* reported but not
Nelenite	Siderite	confirmed with certainty.
Neotocite	Sillimanite	
Niahite	Silver	
Newberyite	Sjogrenite	
Nickeline	Skutterudite	
Nontronite	Smithsonite	
Norbergite	Sonolite	
	Spangolite	
Ogdensburgite	Spessartine	
Ojuelaite	Sphalerite	
Orthochrysothile	Spinel	
Orthoclase	Starkeyite	
Orthoserpierite	Sterlinghillite	
Otavite	Stibnite	
Oyelite-like mineral	Stilbite	
	Stilpnomelane	
	Strontianite	
	Sulfur	
	Sussexite	
	Svabite	
	Synadelphite	

Fluorescent Minerals of Franklin and Sterling Hill, N. J.

A 1991 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.

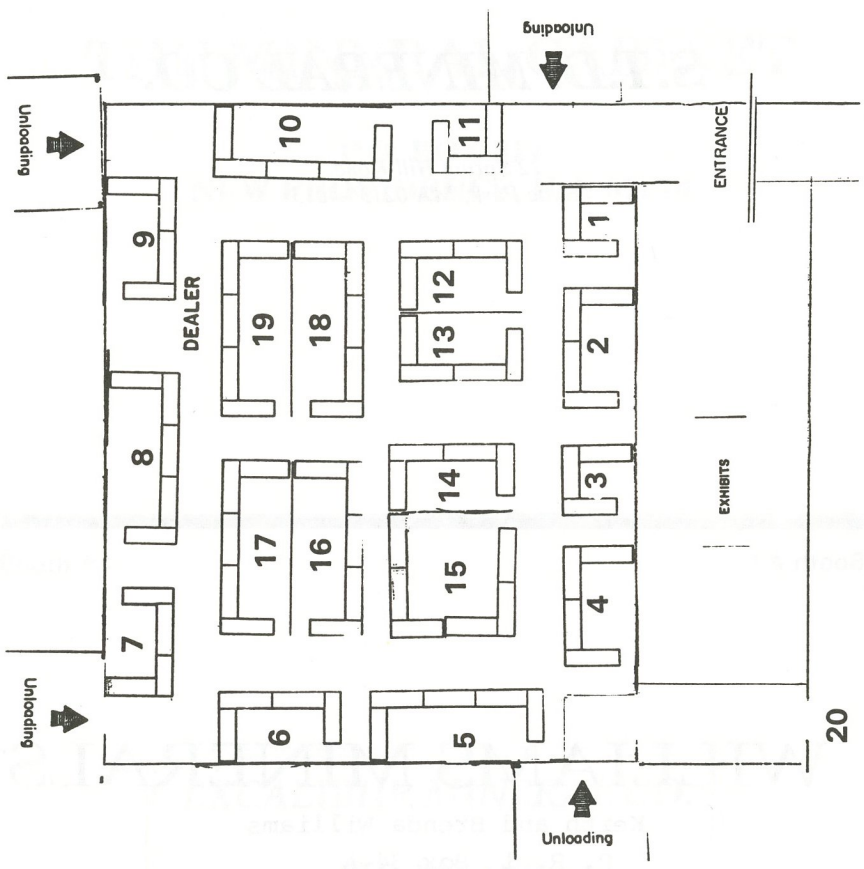
While mineral fluorescence is a powerful tool for rapid mineral identification, it should be used in conjunction with other identification techniques.

Albite: FL red SW	Fluorapatite: FL orange or blue SW (FL "peach" SW)
Aragonite: FL, PH cream LW (FL green SW)	Fluorapophyllite: FL, PH white SW
Barite: FL cream SW (FL tan SW, green LW)	Fluorite: FL, PH blue-green SW, LW or FL violet LW
Barylite: FL violet SW, conspicuous under iron arc	Guerinite: FL white SW
Bassanite: FL, PH violet SW	Gypsum: FL pale blue or cream SW
Bustamite: FL red LW	Hardystonite: FL violet SW
Cahnite: FL cream SW	Hedyphane: FL cream or orange SW
Calcite: FL red w/ red-orange PH (FL pink, orange, cream, green, blue, yellow, violet, etc.)	Hemimorphite: FL, PH white LW (FL green SW)
Canavassite: FL, PH violet LW	Hodgkinsonite: FL deep red LW
Celestine: FL cream LW (FL violet SW)	Hyalophane" FL red SW
Cerussite: FL yellow LW	Hydrotalcite: FL cream LW
Chabazite: FL green SW	Hydroxypophyllite: FL, PH weak white SW
Charlesite" FL pale blue SW, but coated with cream-FL gypsum	Hydrozincite: FL blue SW
Chondrodite: FL yellow SW	Johnbaumite: FL orange SW
Clinohedrite: FL, PH orange SW	Junitoite: FL pale yellow LW
Corundum: FL deep red LW	Magnesio-hornblende: FL pale greenish- blue SW
Cuspidine: FL orange-yellow SW w/ brief orange-red PH	Manganaxinite: FL red SW
Datolite: FL cream SW	Margarite: FL blue SW
Diopside: FL blue SW, cream LW	Margarosanite: FL blue & red SW (FL orange LW)
Dypingite: FL, PH blue SW, LW	Marialite: FL yellow SW, pink LW
Epsomite: FL cream SW	Mcallisterite: FL cream SW
Esperite: FL lemon-yellow SW	Meionite: FL pinkish-red SW (FL pink, orange, yellow, etc.)
Fluoborite: FL cream SW	Meta-ankoleite: FL green SW
	Metalodevite: FL green SW

Microcline: FL blue or red SW	Svabite: FL orange SW
Minehillite: FL violet SW	Talc: FL cream LW
Monohydrocalcite: FL green SW	Thomsonite: FL cream SW
Nasonite: FL pale yellow SW	Tilasite: FL yellow SW
Newberyite: FL cream SW	Titanite: FL yellow-orange SW
Norbergite: FL yellow SW	Tremolite: FL blue SW (FL yellow LW)
Oyelite-like mineral: FL violet & white SW	Turneaureite: FL orange SW
Pargasite: FL pale greenish-blue SW	Uranospinite: FL green SW
Pectolite: FL, PH orange SW	Uvite: FL yellow SW
Phlogopite: FL yellow SW	Willemite: FL, PH green SW. Also FL, PH yellow, greenish-yellow, orange.
Picropharmacolite: FL white LW	Wollastonite: FL, PH orange to yellow SW
Powellite: FL yellow SW	Xonotlite: FL violet SW
Prehnite: FL pinkish orange SW	Zincite: FL yellow LW
Quartz: yellow or green SW	Zircon: FL orange SW
Roebbingite: FL red w/ red-orange PH SW	Znucalite: FL green SW
Scheelite: FL yellow or blue SW	
Smithsonite: FL, PH white SW	
Sphalerite: FL, PH LW orange, blue, yellow-orange or orange- yellow	

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	$\text{Ca}_6(\text{Al}, \text{Si})_2(\text{SO}_4)_2[\text{B}(\text{OH})_4](\text{OH})_{12} \cdot 26\text{H}_2\text{O}$
CHLOROPHOENICITE	$\text{Mn}_3\text{Zn}_2(\text{OH})_6[\text{AsO}_3\text{H}_0.5(\text{O}, \text{OH})_3]_2$
CIANCIULLIITE	$\text{Mn}(\text{Mg}, \text{Mn})_2\text{Zn}_2(\text{OH})_{10} \cdot 2-4\text{H}_2\text{O}$
FRANKLINFURNACEITE	$\text{Ca}_2\text{Fe}^{3+}\text{Mn}^{2+}\text{Mn}^{3+}\text{Zn}_2\text{Si}_2\text{O}_{10}(\text{OH})_8$
FRANKLINPHILITE	$\text{K}_4\text{Mn}_{48}(\text{Si}, \text{Al})_{72}(\text{O}, \text{OH})_{216} \cdot n\text{H}_2\text{O}$
GERSTMANNITE	$(\text{Mg}, \text{Mn})_2\text{ZnSiO}_4(\text{OH})_2$
HANCOCKITE	$(\text{Pb}, \text{Ca}, \text{Sr})_2(\text{Al}, \text{Fe}^{3+})_3(\text{SiO}_4)_3(\text{OH})$
HARDYSTONITE	$\text{Ca}_2\text{ZnSi}_2\text{O}_7$
HAUCKITE	$(\text{Mn}, \text{Mg})_{24}\text{Zn}_{18}\text{Fe}^{3+}_3(\text{SO}_4)_4(\text{CO}_3)_2(\text{OH})_{81}$
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	$(\text{Mn}, \text{Mg})_6\text{Zn}_3(\text{OH})_8(\text{AsO}_4)_2(\text{SiO}_4)$
JAROSEWICHITE	$\text{Mn}_2\text{Mn}^{3+}(\text{AsO}_4)(\text{OH})_6$
JOHNBAUMITE	$\text{Ca}_3(\text{AsO}_4)_3(\text{OH})$
KITTATINNYITE	$\text{Ca}_4\text{Mn}^{3+}\text{Mn}^{2+}_2\text{Si}_4\text{O}_{16}(\text{OH})_8 \cdot 18\text{H}_2\text{O}$
KOLICITE	$\text{Mn}_7\text{Zn}_4(\text{AsO}_4)_2(\text{SiO}_4)_2(\text{OH})_8$
KRAISSLITE	$\text{Fe}^{3+}_2\text{Mg}_4\text{Mn}_{44}\text{Zn}_6(\text{AsO}_4)_6(\text{AsO}_3)_4(\text{SiO}_4)_{12}(\text{OH})_{36}$
LAWSONBAUERITE	$(\text{Mn}, \text{Mg})_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
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	$(\text{Mg}, \text{Mn})_3\text{Zn}_2(\text{OH})_6[\text{AsO}_3\text{H}_0.5(\text{O}, \text{OH})_3]_2$
MCGOVERNITE	$(\text{Mn}, \text{Mg}, \text{Zn})_{273}\text{As}^{3+}_{12}\text{As}^{5+}_{30}\text{Si}_{42}\text{O}_{324}(\text{OH})_{252}$
MINEHILLITE	$\text{K}_{2-3}\text{Ca}_{28}[\text{Zn}_4\text{Al}_4\text{Si}_{40}\text{O}_{112}(\text{OH})_4](\text{OH})_{12}$
MOOREITE	$\text{Mg}_3\text{Mn}_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{26} \cdot 8\text{H}_2\text{O}$
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)	$\text{Mn}_2\text{Nd}(\text{AsO}_4)(\text{OH})_4$
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	$(\text{Mg}, \text{Mn})_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
WALKKILLDELLITE	$\text{Ca}_4\text{Mn}^{2+}_6\text{As}^{5+}_4\text{O}_{16}(\text{OH})_8 \cdot 18\text{H}_2\text{O}$
WAWAYANDAITE	$\text{Ca}_{12}\text{Mn}_3\text{Be}_{18}\text{Si}_{12}\text{O}_{48}(\text{OH}, \text{Cl})_{30}$
YEATMANITE	$[\text{Mn}_5\text{Sb}_2][\text{Mn}_2\text{Zn}_4\text{Si}_4]\text{O}_{28}$



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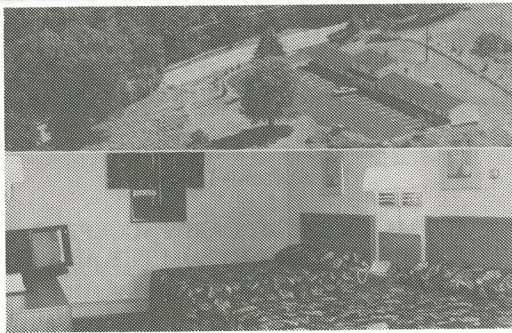
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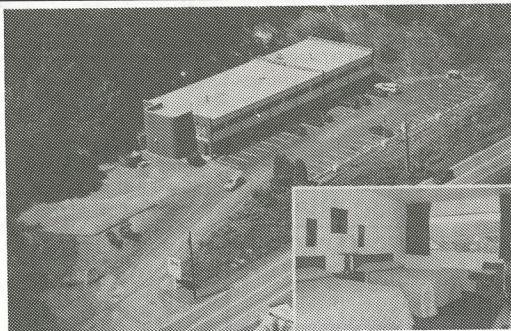
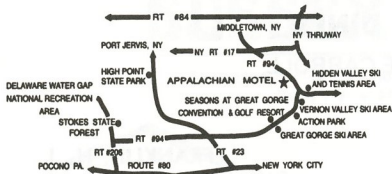


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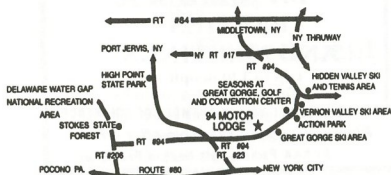


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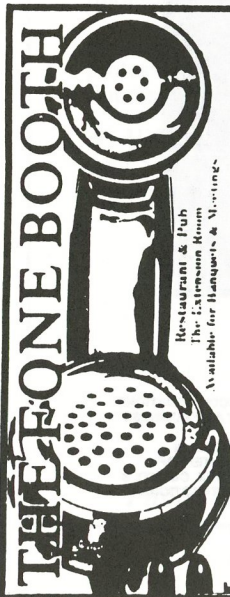
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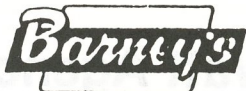
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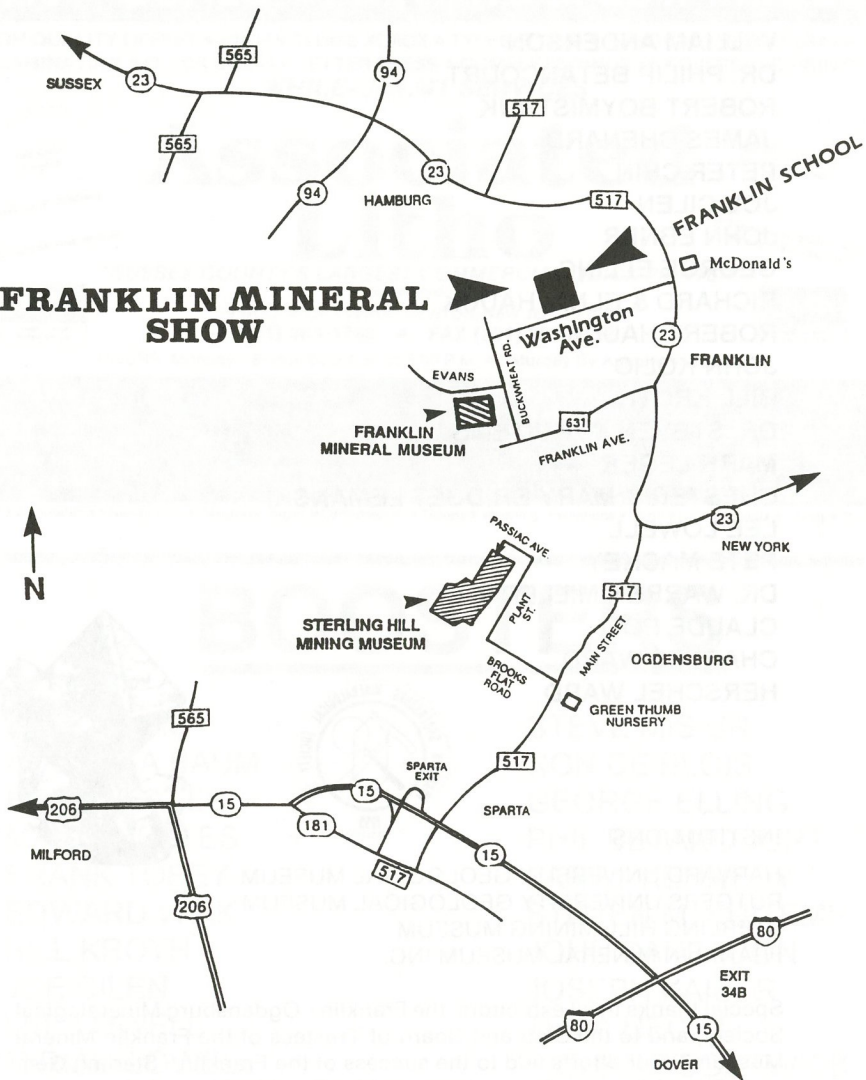
INSTITUTIONS

HARVARD UNIVERSITY GEOLOGICAL MUSEUM
RUTGERS UNIVERSITY GEOLOGICAL MUSEUM
STERLING HILL MINING MUSEUM
FRANKLIN MINERAL MUSEUM INC.

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.

John Cianciulli
EXHIBIT COORDINATOR

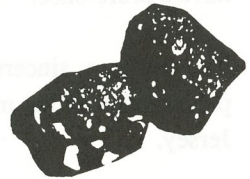
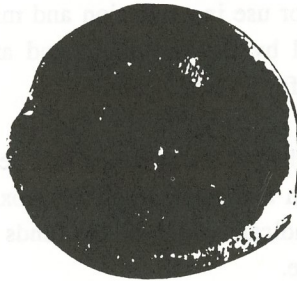
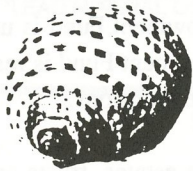
FRANKLIN MINERAL SHOW



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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.

**THE FIFTEENTH ANNUAL F.O.M.S. DINNER
AND**

AUCTION

OCTOBER 2, 1993

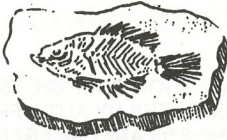
THE PLACE - THE LYCEUM HALL, THE IMMACULATE CONCEPTION CHURCH, 75 CHURCH STREET, FRANKLIN, N.J. ABOUT 3 MINUTES BY AUTO FROM THE FRANKLIN MIDDLE SCHOOL, THE SITE OF THE 37th ANNUAL FRANKLIN-STERLING GEM AND MINERAL EXHIBIT).

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

**SPEAKER - ROBERT JENKINS FROM DUPONT CORPORATION
"LEAD MINERAL OCCURENCE FROM THE PASSAIC PIT"**

SHOW NOTES:

MINERALS, FOSSILS, JEWELRY
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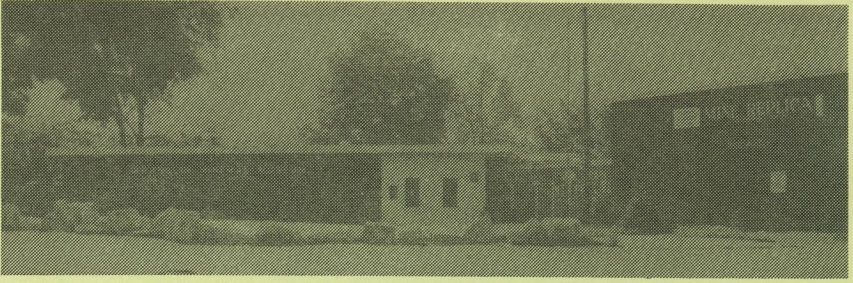
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- 1) ANNUAL INDIVIDUAL - \$15.00
- 2) LIFE MEMBERSHIP - \$250.00
- 3) ANNUAL FAMILY - \$25.00
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- 3) LIFE - ALL OF THE ABOVE; NAME ON A PLAQUE; A CERTIFICATE; LAMINATED GOLD MEMBERSHIP CARD, UNLIMITED MUSEUM ADMISSIONS FOR GOLD CARD HOLDER.
- 4) CORPORATE - NAME ON A PLAQUE, LISTING OF CORPORATE OFFICERS AND OR GOVERNING BODY OF PEOPLE AUTHORIZED FOR MEMBERSHIP PRIVILEGES.
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