

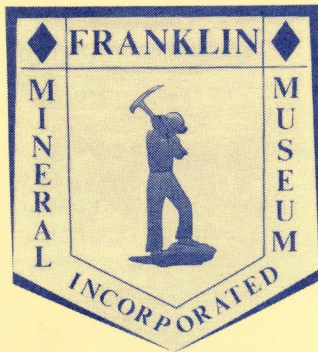
36th ANNUAL

*Franklin - Sterling*

GEM & MINERAL  
SHOW

Sat. & Sun., Oct. 3rd & 4th, 1992

*Sponsored by*



**FRANKLIN, NEW JERSEY**

*The Fluorescent Mineral Capital of the World*

## STERLING HILL MINING MUSEUM

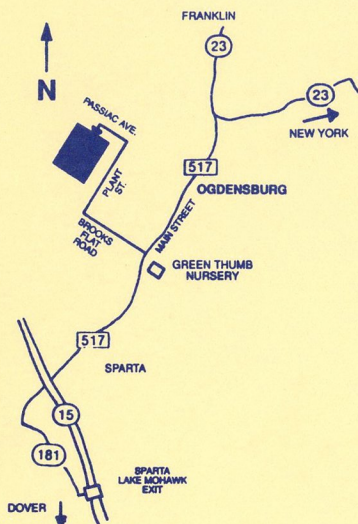
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## DEDICATION

This bulletin of the Franklin-Sterling Mineral Exhibit is dedicated to William W. Wurst whose support of the Franklin Mineral Museum, as of so many causes, has been without limit. Until recently proprietor of Wilcox Press in Hamburg, Bill was for many years member of the Franklin Kiwanis, sponsor of the Museum, and was active in the planning, building and operation of the Museum in numerous capacities including President and Treasurer. Always available for consultation, Bill contributed his talent as printer and advertising expert with great patience, placing signs about the Borough and stirring the enthusiasm of local politicians for the cause of the Museum. On his travels he spread the word by means of our brochures and observed how other museums operated. As Master of Ceremonies, Bill arranged for band concerts, representation on high by the Clergy and managed to produce a succession of speakers at the annual Miner's Day. His participation in the mineral shows has done much to guarantee the success of these ventures. In all of this Bill has been ably assisted by his patient wife Helen who, like her selfless husband, is dedicated to worthy causes. Bill, the Museum will always be in your debt.



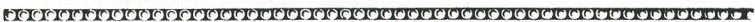
# The FRANKLIN-STERLING HILL MINERALS

Compiled from various sources by Pete J. Dunn of the Smithsonian Institution and John L. Baum, Curator of the Franklin Mineral Museum, July 1992, following the nomenclature of the Glossary of Mineral Species, 1991.

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



Hexahydrite	Minehillite	Scorodite
Hodgkinsonite	Molybdenite	Seligmannite
Holdenite	Monohydrocalcite	Sepiolite
Huebnerite	Mooreite	Serpierite
Humite	Muscovite	Siderite
Hyalophane		Sillimanite
Hydrohetaerolite	Nasonite	Silver
Hydrotalcite	Natrolite	Sjogrenite
Hydroxapophyllite	Nelenite	Skutterudite
Hydrozincite	Neotocite	Smithsonite
	Niahite	Sonolite
Illite	Newberyite	Spessartine
Ilmenite	Nickeline	Sphalerite
	Nontronite	Spinel
Jacobsite	Norbergite	Starkeyite
Jarosewichite		Sterlinghillite
Jerrygibbsite	Ogdensburgite	Stibnite
Johannsenite	Ojuelaite	Stilbite
Johnbaumite	Orthochrysotile	Stilpnomelane
Junitoite	Orthoclase	Stilpnomelane (Mn-dominant)
	Orthoerpielite	Strontianite
Kaolinite	Otavite	Sulfur
Kentrolite	Oyelite-like mineral	Sussexite
Kittatinnyite		Svabite
Koettigite		Synadelphite
Kolicite		
Kraisilitite	Parabrandtite	Talc
Kutnohorite	Pararammelsbergite	Tennantite
	Parasymplesite	Tephroite
Larsenite	Pargasite	Thomsonite
Laumontite	Pectolite	Thorite
Lawsonbauerite	Pennantite	Thortveitite
Lead	Petedunnite	Tilasite
Legrandite	Pharmacolite	Tirolite
Lennilenaite	Pharmacosiderite	Titanite
Leucophoenicite	Phlogopite	Todorokite
Linarite	Picropharmacolite	Torreyite
Liroconite	Pimelite	Tremolite
Lizardite	Powellite	Turneaureite
Loellingite	Prehnite	
Loseyite	Pumpellyite-(Mg)	Uraninite
	Pyrite	Uranophane
Magnesiohornblende	Pyroaurite	Uranospinite
Magnesoriebeckite	Pyrobelonite	Uvite
Magnesium-chlorophoenicite	Pyrochroite	
Magnetite	Pyrophanite	Vesuvianite
Magnussonite	Pyroxmangite	Villyaellenite
Malachite	Pyrrhotite	
Manganaxinite	Quartz	Walkkilldellite
Manganberzeliite		Wawayandaite
Manganese-hoernesite	Rammelsbergite	Wendwilsonite
Manganhumite	Realgar	Willemite
Manganite	Retzian - (La)	Wollastonite
Manganosite	Retzian - (Nd)	Woodruffite
Manganpyrosmalite	Rhodochrosite	Wulfenite
Marcasite	Rhodonite	Wurtzite
Margarite	Riebeckite	
Margarosanite	Roebbingite	Xonotlite
Marialite	Romeite	Yeatmanite
Marsturite	Rosasite*	Yukonite
Mcallisterite	Roweite	
Mcgovernite	Rutile	Zinalsite
Meionite		Zincite
Melanterite*	Safflorite	Zinkenite
Meta-ankoleite	Sarkinite	Zircon
Metalodavite	Sauconite	Znucalite
Metazeunerite	Schallerite	
Microcline	Scheelite	
Mimetite	Schorl	
	Scliarite	
		* reported but not confirmed with certainty.



# 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<br>SW (FL "peach" SW)          |
| Aragonite: FL, PH cream LW<br>(FL green SW)                                                        | Fluorapophyllite: FL, PH white SW                              |
| Barite: FL cream SW<br>(FL tan SW, green LW)                                                       | Fluorite: FL, PH blue-green SW,<br>LW or FL violet LW          |
| Barylite: FL violet SW,<br>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<br>(FL pink, orange, cream, green,<br>blue, yellow, violet, etc.) | Hemimorphite: FL, PH white LW<br>(FL green SW)                 |
| Canavassite: FL, PH violet LW                                                                      | Hodgkinsonite: FL deep red LW                                  |
| Celestine: FL cream LW<br>(FL violet SW)                                                           | Hyalophane" FL red SW                                          |
| Cerussite: FL yellow LW                                                                            | Hydrotalcite: FL cream LW                                      |
| Chabazite: FL green SW                                                                             | Hydroxyapophyllite: FL, PH weak<br>white SW                    |
| Charlesite" FL pale blue SW, but<br>coated with cream-FL<br>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-<br>blue SW              |
| Cuspidine: FL orange-yellow SW w/<br>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<br>(FL orange LW)              |
| Dypingite: FL, PH blue SW, LW                                                                      | Marialite: FL yellow SW, pink LW                               |
| Epsomite: FL cream LW                                                                              | Mcallisterite: FL cream SW                                     |
| Esperite: FL lemon-yellow SW                                                                       | Meionite: FL pinkish-red SW (FL pink,<br>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	Willemitte: 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
Roebingite: 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	

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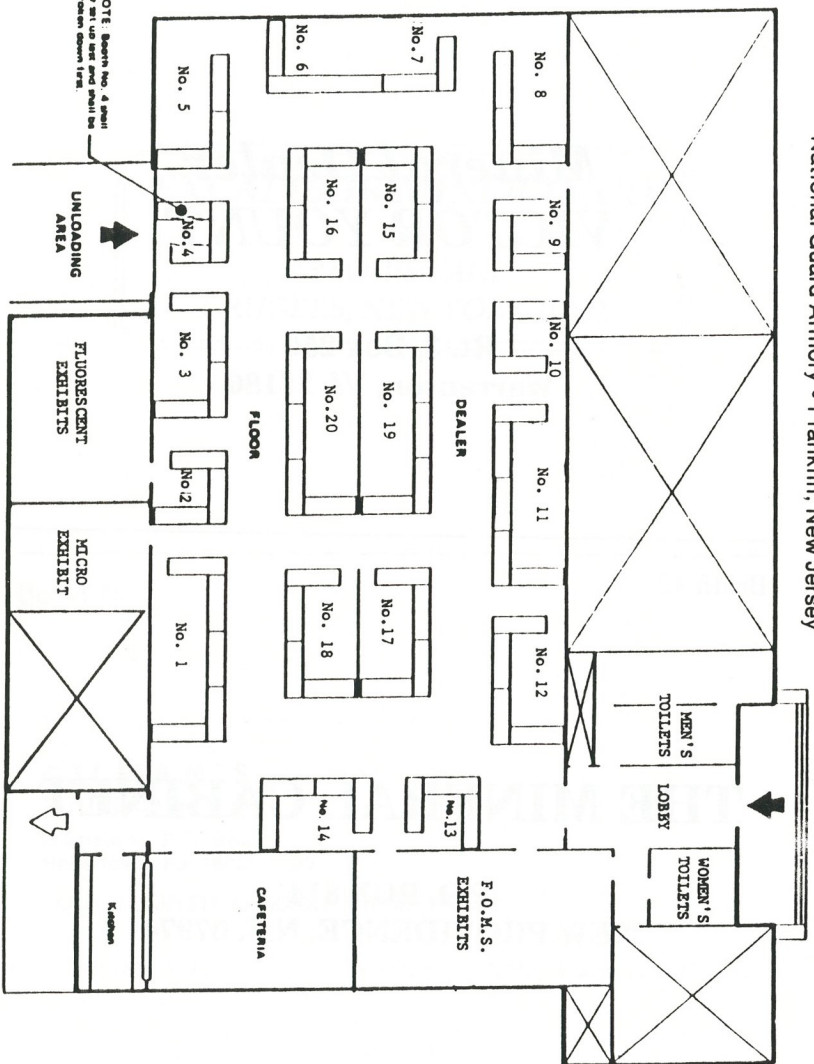
## Minerals Unique To Franklin and Sterling Hill

BOSTWICKITE	$\text{CaMn}^{3+}_6\text{Si}_3\text{O}_{16} \cdot 7\text{H}_2\text{O}$
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	$\text{Mn}_3\text{Zn}_2(\text{OH})_6[\text{As}_{0.5}\text{H}_{0.5}(\text{O}, \text{OH})_3]_2$
CIANCIULLIITE	$\text{Mn}(\text{Mg}, \text{Mn})_2\text{Zn}_2(\text{OH})_{10} \cdot 2 \cdot 4\text{H}_2\text{O}$
FRANKLINFURNACEITE	$\text{Ca}_2\text{Fe}^{3+}\text{Mn}^{2+}_3\text{Mn}^{3+}\text{Zn}_2\text{Si}_2\text{O}_{10}(\text{OH})_8 \cdot$
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	$\text{Ca}_5(\text{AsO}_4)_3(\text{OH})$
KITTATINNYITE	$\text{Ca}_4\text{Mn}^{3+}_4\text{Mn}^{2+}_2\text{Si}_4\text{O}_{16}(\text{OH})_8 \cdot 18\text{H}_2\text{O}$
KOLICITE	$\text{Mn}_7\text{Zn}_4(\text{AsO}_4)_2(\text{SiO}_4)_2(\text{OH})_8$
KRAISSLITE	$\text{Fe}^{3+}_2\text{Mg}_4\text{Mn}_4\text{Zn}_6(\text{AsO}_4)_6(\text{AsO}_3)_4(\text{SiO}_4)_{12}(\text{OH})_{36}$
LAWSONBAUERITE	$(\text{Mn}, \text{Mg})_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
LENNILENAPEITE	$\text{K}_{6-7}(\text{Mg}, \text{Mn}, \text{Zn}, \text{Fe})_{48}(\text{Si}, \text{Al})_{72}(\text{O}, \text{OH})_{216} \cdot 16\text{H}_2\text{O}$
MAGNESIUM-CHLOROPHOENICITE	$(\text{Mg}, \text{Mn})_3\text{Zn}_2(\text{OH})_6[\text{As}_{0.5}\text{H}_{0.5}(\text{O}, \text{OH})_3]_2$
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	$\text{Mg}_9\text{Mn}_2\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{26} \cdot 8\text{H}_2\text{O}$
NELENITE	$\text{Mn}_{16}\text{Si}_{12}\text{O}_{30}(\text{OH})_{14}[\text{As}^{3+}_3\text{O}_6(\text{OH})_3]_1$
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	$\text{Mn}_3(\text{AsO}_4)_2 \cdot 4\text{H}_2\text{O}$
TORREYTE	$(\text{Mg}, \text{Mn})_9\text{Zn}_4(\text{SO}_4)_2(\text{OH})_{22} \cdot 8\text{H}_2\text{O}$
WALLKILDELLITE	$\text{Ca}_4\text{Mn}^{2+}_6\text{As}^{5+}_4\text{O}_{16}(\text{OH})_8 \cdot 18\text{H}_2\text{O}$
WAWAYANDAITE	$\text{Ca}_{12}\text{Mn}_4\text{B}_2\text{Be}_{18}\text{Si}_{12}\text{O}_{46}(\text{OH}, \text{Cl})_{30}$
YEATMANITE	$[\text{Mn}_5\text{Sb}_2][\text{Mn}_2\text{Zn}_8\text{Si}_4]_2\text{O}_{28}$



1983  
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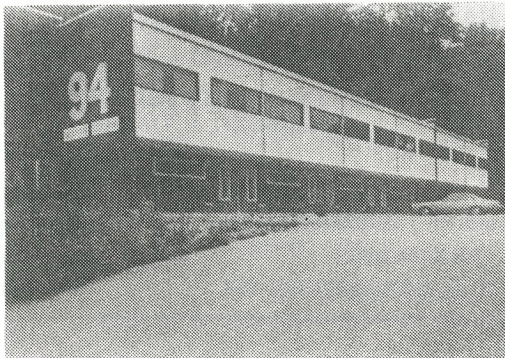


*In Grateful Appreciation to  
Wilfred R. Welsh*

For the donation of his lifetime collection of Franklin and world-wide minerals, fossils, and native American Indian artifacts. Bill Welsh with his wife Mary, spent many hundreds of hours at the Museum, unpacking, identifying and properly displaying this extensive collection in the display cases and racks that he also donated. Today visitors to the Museum can enjoy the Welsh collections which have added tremendous value and interest to the already famous Franklin Mineral Museum.

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Mailing address: (1992)  
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Fluorescent Mineral Society  
P. O. Box 2694  
Sepulveda CA 91343 U.S.A.

Meeting address:  
Glendale Federal Bank  
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Pasadena, CA (park in rear)  
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ROBERT BOYMISTRUK  
JAMES CHENARD  
PETER CHIN  
JOE CILEN  
ED DAVID  
JOHN EBNER - Micromount Exhibit  
GEORGE ELLING  
GARY GRENIER  
JOHN KOLIC  
BILL KROTH - Fl. Exhibit  
DR. STEVE M. KUITEMS  
MARK LEGER - Fl. Exhibit  
CHESTER & MARY BRIDGET LEMANSKI  
LEE LOWELL  
PETE MACKEY  
DR. WARREN MILLER - Fl. Exhibit  
CLAUDE V. POLI - Fl. Exhibit  
STEVE SANFORD

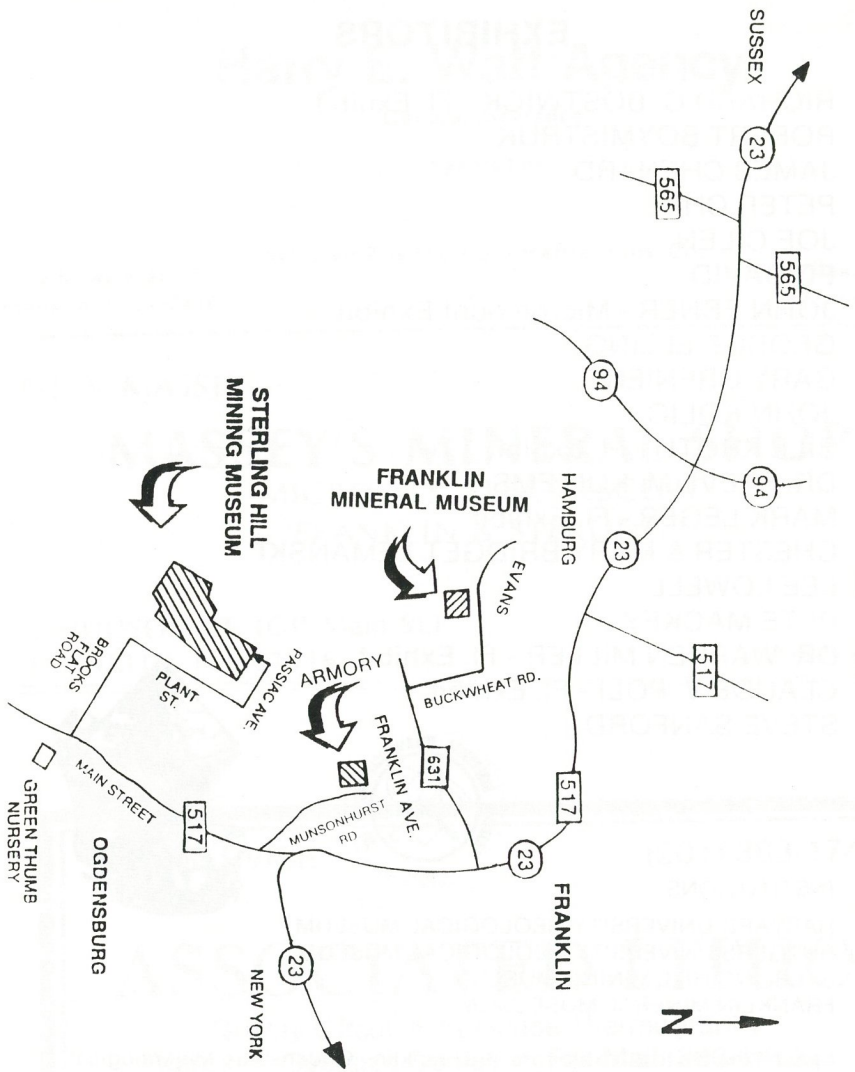


### INSTITUTIONS

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

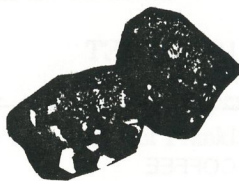
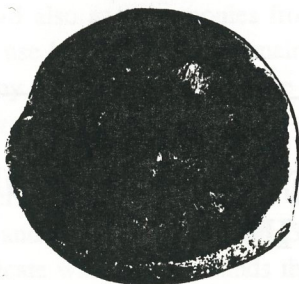
Special thanks to all exhibitors, the Franklin - Ogdensburg Mineralogical Society, and to the Staff and Board of Trustees of the Franklin Mineral Museum. Your efforts add to the success of the Franklin - Sterling Gem and Mineral Show and perpetuation of the Franklin Mineral Museum.

John Cianciulli  
EXHIBIT COORDINATOR



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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.

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

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# SPEAKERS



This gem and mineral show can be even more enjoyable if you budget your time so that you can hear the guest speakers during your visit to this "beehive of activity" at the Franklin Armory. If your purse strings need a rest, chances are that your feet need a rest too. Let the speakers raise your aspiration level before you return to your favorite exhibits and favorite dealers.

Saturday, October 3  
1:00 p.m.

DR. PETER BANCROFT  
"The mine minerals and people of  
Franklin, New Jersey and Langban,  
Sweden"

Sunday, October 4  
2:00 p.m.

Steven B. Sanford  
"Descriptive geology of the ores at  
Franklin and Sterling Hill, Sussex  
County, New Jersey"

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THE FOURTEENTH ANNUAL F.O.M.S. DINNER  
OCTOBER 3, 1992  
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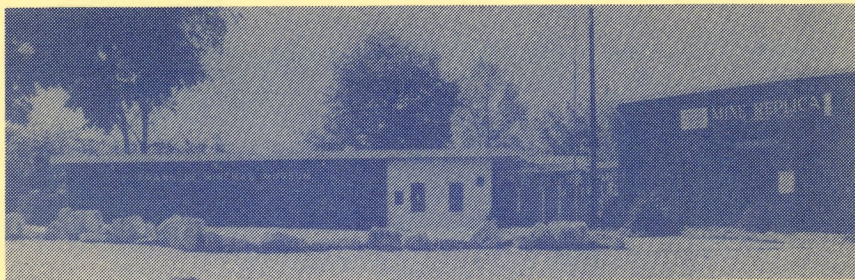
- The Place - The Lyceum Hall, The Immaculate Conception Church, 75 Church Street, Franklin, New Jersey (about 5 minutes by auto from the Franklin Armory, site of the 36th Franklin-Sterling Gem and Mineral Exhibit).
- The Time - Social Hour begins at 6:30 p.m.; dinner begins at 7:00 p.m.
- Speaker - DR. PETER BANCROFT  
"Ups and downs in Franklin"



## DR. PETER B. ANCROFT

3538 OAK CLIFF DRIVE • FALLBROOK, CALIFORNIA 92028 • U.S.A. (619) 728-6465

- Education** B.S. University of California, Santa Barbara  
M.S. University of Southern California  
Ed.D. University of Northern Colorado
- Vocation** Teacher, Principal, Supt. of Public Schools, California  
Curator of Mineralogy, Santa Barbara Natural History Museum  
Director of Education, U.S. Dept. of State, La Paz, Bolivia  
Mineral and gem dealer-Pala International Inc., Fallbrook, CA.  
Director of Collections, San Diego Mineral & Gem Society  
Author: "World's Finest Minerals & Crystals", Viking Press. N.Y.  
1973: Gem & Crystal Treasures, Western Enterprises,  
Fallbrook, CA., Mineralogical Record, Tucson, AZ., 1984  
Contributor: Lapidary Journal; Rock & Gem; Mineralogical Record;  
Le Monde et les Mineraux; Ein Magazin vom Stern, Australian  
Gems  
Photographer, Hanna-Barbera, Hollywood, CA.  
Consultant on gemstones for the Franklin Mint, Franklin Center, PA.  
Have constructed composite Gem Crystal Pocket displays for the  
John Barlow Collection, the Los Angeles County Museum of  
Natural History, and the San Diego Museum of Natural History  
1990-Director of a National Science Foundation Grant to develop  
interactive mineral exhibits for the San Diego Museum of  
Natural History and Cranbrook Institute near Detroit, Michigan
- Hobbies** Mineral, crystal, fossil and western antique collector; tennis,  
Travel: all continents
- Speaker** American Gemological Society; the first annual Sir Maurice Mawby  
Lecture, Melbourn University, Australia  
Numerous mineral clubs, societies, shows and conventions, USA  
and abroad; radio and TV shows  
Rotary Clubs, USA and abroad  
White House Educational Conference, Washington, D.C.  
**Honors** American Federation of Mineral Societies Trophy for World-Wide  
Minerals (twice)  
Member Blue Key  
Vice-President, student Body, University of California,  
Santa Barbara, California  
"Professor of Year", La Paz, Bolivia (national award)  
President, Rotary Club  
Vice-President, Chamber of Commerce  
President of a Girl's Club, member Boy's Club board  
President, Alumni Assn., University of California, Kern Co., CA.  
Judge of numerous Mineral Club's and Federation Shows  
American Federation of Mineral Societies, Scholarship Foundation  
Award, 1984
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