

2001

SATURDAY, SEPTEMBER 29th • 9-6 SUNDAY, SEPTEMBER 30th • 10-5

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# FRANKLIN, NEW JERSEY The Fluorescent Mineral Capital of the World

# The Franklin Mineral Museum

expresses its thanks
to the
Minerals Show Exhibitors,
Dealers,
Advertisers
and to all
who through their dedication
have contributed
their time
and talents
to make the Mineral Show
a great success.

## - DEDICATION -



Photo by Dan Durham

#### LEE LOWELL

Lee Lowell has been around the Franklin scene for 30 years or so. He spent the beginnings of his collecting career incognito. A humble personality who has a terrific eye for beautiful minerals and an insatiable appetite for local history he is an important asset to Franklin-Sterling mineralogy starting with his curatorial assistance to and long-term friendship with Mr. Ewald Gerstmann. Presently Lee is a member of the Franklin Mineral Museum Board of Trustees Executive Committee and has served as museum treasurer since 1992. Lee was just appointed co-chairman of the museum's show committee, and has been active on the show committee for many years. In his spare time Lee assists the museum curatorial department and is especially helpful with various projects on weekends and holidays. He is a past president, and trustee of the Franklin-Ogdensburg Mineralogical Society and has devoted his time unselfishly to join the effort to preserve the zinc mining legacy of Franklin and Ogdensburg, New Jersey. Lee's real job is with the United States Department of Defense where he works as an engineer.

Lee has a wide range of other interests such as Civil War history and collects books and memorabilia on the subject. He enjoys going to Civil War battle reenactments. When taking a break from his interests in war and rocks, Lee enjoys music. The Boston Pops are among his favorite bands. Because of his wide range of interests, avid reading and life experiences, Lee can speak intelligently on many topics. He is truly a remarkable individual. Franklin is fortunate to have Lee Lowell as a volunteer and benefactor. From the Franklin Mineral Museum Board of Trustees and others who know you, thanks.

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

A 2001 check-list based on observations by Richard C. Bostwick, with species additions\* and midwave (MW) fluorescence observations by John Cianciulli and Claude Poli. FL=fluoresces; PH= phosphoresces; SW= shortwave ultraviolet radiation (254 nm); MW= midwave or midrange ultraviolet radiation (approx. 300 nm); LW= longwave ultraviolet radiation (350 or 366 nm).

These descriptions are necessarily brief and hence simplistic. The fluorescent response listed first is the typical one and the UV wavelength mentioned with it is usually the wavelength for which the fluorescent response is strongest. Many minerals fluoresce under SW,MW, and LW. 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: FI red SW

Aragonite: FL/PH cream LW

(FL green SW) (bright blue-green MW) Barite: FL cream SW (FL/PH yellow SW/LW. FL white SW and pale green LW) bright cream MW Barylite: FL violet SW, conspicuous under iron arc

Bassanite: FL/PH violet SW

Bustamite: FL cherry red LW, dull red MW

Cahnite: FL/PH cream SW

Calcite: FL orange-red SW with brief red-orange PH (also FL pink, orange, cream, white, green, blue yellow, violet etc.) (cream, orange, red crimson, blue green, blue MW)

Canavesite: FL/PH violet LW Celestine: FL/PH cream LW (FL violet SW)

Cerussite: FL vellow LW

Chabazite: FL green SW, green MW

Charlesite: FL pale blue SW, coated with cream-FL

gypsum, blue MW

Chondrodite: FL yellow, yellow-orange SW

\*Clinochrysotile: FL yellow-brown LW, dull brown SW, less MW

Clinohedrite: FL/PH orange SW, pale orange MW

Corundum: FL cherry-red LW

Cuspidine: FL orange-yellow SW, with brief orange-red

PH, dull violet MW Datolite: FL cream SW

Diopside: FL blue SW, cream LW, yellow-orange MW

Dypingite: FL/PH blue SW/LW, blue MW

Epsomite: FL cream LW, violet MW

Esperite: FL lemon-yellow SW, greenish yellow MW

Fluoborite: FL cream SW

Fluorapatite: FL orange or blue SW (FL "peach" SW) dull

orange and peach MW

Fluorapophyllite: FL/PH white SW

Fluorite: FL/PH blue-green SW/LW, FL violet-blue LW (FL white LW) blue-green MW, (also yellow-cream SW,

less intense yellow-cream LW)

Guerinite: FL/PH white SW

Gypsum:FL/PH cream, pale blue, pale violet SW. pale vellow MW

Hardystonite: FL violet to violet-blue SW/LW, blue violet

and lavender MW

Hedyphane: FL cream, orange SW, orange brown MW Hemimorphite: FL/PH white LW, (FL green SW, lime

green, cream to yellow MW)

Hodgkinsonite: FL deep cherry red LW

Humite: rarely FL pale yellow SW Hyalophane: FL red SW, tan MW

Hydrotalcite: FL cream LW

Hydroxyapophyllite: FL/PH weak white SW

Hydrozincite: FL/SW blue, moderate white, blue with

vellow margins MW

Johnbaumite: FL orange SW, burnt orange, orange MW

Junitoite: FL pale yellow LW

Magnesiohornblende: FL greenish-blue SW

Manganaxinite: FL red SW, moderate red MW Margarite: FL yellow SW/LW, cream yellow MW Margarosanite: FL blue & red SW, (FL orange LW), bright red, bright red with orange streaks, dull pink

MW

Marialite: FL yellow SW, pink LW

Mcallisterite: FL cream SW

Meionite: FL pinkish-red SW, dull peach MW (also FL

pink, orange, yellow, cream LW/SW)

Meta-ankoleite: FL green SW Metalodevite: FL green SW

Microcline: FL blue or red SW, grayish-green, dull

powder blue MW

Minehillite: FL violet SW, violet blue MW

Monohydrocalcite: FL green SW + white PH, bright green MW

Nasonite: FL pale yellow SW, yellow cream MW

Newberyite: FL cream SW

Norbergite: FL yellow SW, dull orange MW

Pargasite: FL greenish-blue SW

Pectolite: FL/PH orange SW, dull peach, dull orange

\*Pharmacolite: FL weak violet SW

Phlogopite-1 M: FL yellow SW, dull yellow MW

Picropharmacolite: FL/PH white LW

Powellite: FL yellow SW, bright yellow MW Prehnite: FL orangish-pink SW, dull pink to yellow MW

Quartz: FL yellow or green SW

Roeblingite: FL red SW, with 1 brief, red-orange PH,

dull pink, bright cream MW

Samfowlerite: FL weak red SW

Scheelite: FL yellow, blue SW, pale yellow, yellow

orange MW

Smithsonite: FL/PH white SW

Sphalerite: FL/PH orange, yellow-orange, orange-

yellow, and blue LW, pumpkin MW Spinel: FL cherry-red LW

Strontianite: FL violet SW/LW

Talc: FL cream SW, dull green MW Thomsonite: FL cream SW

Tilasite: FL yellow SW

Titanite: FL yellow-orange SW Tremolite: FL blue SW. (yellow LW)

Turneaureite: FL orange SW, pumpkin orange, dull

orange MW Uranospinite: FL green SW

Uvite: FL yellow SW

Willemite: FL/PH green SW, (FL/PH yellow, greenish-

yellow, orange, pale blue SW) green MW

Wollastonite: FL orange to yellow SW, variable PH Xonotlite: FL violet SW, dull violet, powder blue MW Zincite: FL yellow LW/SW, bright yellow to white MW

Zircon: FL orange SW

Znucalite: FL green SW, neon green MW

#### MINERAL SPECIES FOUND AT FRANKLIN-STERLING HILL, NEW JERSEY

#### Mineral Species List Updated Fall 0f 2001 Courtesy of the Franklin Mineral Museum Inc.

Acanthite Ag<sub>2</sub>S Ca<sub>2</sub>(Mg,Fe<sup>2+</sup>)<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub> Actinolite Zn<sub>2</sub>(AsO<sub>4</sub>)(OH) Adamite CaMg(AsO<sub>4</sub>)(OH) Adelite NaFe<sup>3+</sup>Si<sub>2</sub>O<sub>6</sub> Mn<sub>4</sub><sup>2+</sup>Mg(AsO<sub>4</sub>)<sub>2</sub>(OH)<sub>4</sub>·4H<sub>2</sub>O Aegirine Akrochordite NaAlSi<sub>3</sub>O<sub>8</sub> Albite NaAl51308 Mn<sub>1</sub>(AsO<sub>4</sub>)<sub>2</sub>(OH)<sub>8</sub> (Ce,Ca,Y)<sub>2</sub>(AL, Fe<sup>2+</sup>,Fe<sup>3+</sup>)<sub>3</sub>(SiO<sub>4</sub>)<sub>3</sub>(OH) Mn<sub>3</sub><sup>2+</sup>(SiO<sub>4</sub>)<sub>2</sub>(OH)<sub>2</sub> Fe<sub>3</sub><sup>2+</sup>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub> Allactite Allanite-(Ce) Alleghanyite Almandine Na[AlSi<sub>2</sub>O<sub>6</sub>]·H<sub>2</sub>O Ba,Fe<sub>3</sub><sup>24</sup>Fe<sup>3+</sup>Si<sub>3</sub>O<sub>10</sub>S(OH) Analcime Anandite TiO<sub>2</sub> Anatase Ca<sub>3</sub>Fe<sub>2</sub><sup>3+</sup> (SiO<sub>4</sub>)<sub>3</sub> Andradite Anglesite PbSO<sub>4</sub> CaSO<sub>4</sub> Anhydrite Ni<sub>3</sub>(AsO<sub>4</sub>)<sub>2</sub> 8H<sub>2</sub>O Annabergite Anorthite CaAl-Si-Os (Na,K)AlSi<sub>3</sub>O<sub>8</sub> Cu<sub>3</sub><sup>2+</sup>(SO<sub>4</sub>)(OH)<sub>4</sub> Anorthoclase Antlerite CaCO Aragonite Arsenic Ca<sub>2</sub>Fe<sub>3</sub><sup>3+</sup> (AsO<sub>4</sub>)<sub>3</sub>O<sub>2</sub>·3H<sub>2</sub>O Arseniosiderite Arsenopyrite FeAsS Cu<sub>2</sub><sup>2+</sup>Cl(OH)<sub>3</sub>

Atacamite Cu<sub>2</sub> C<sub>1</sub>(V<sub>2</sub>;<sub>1</sub>)<sub>3</sub> (Ca,Na)(Mg,Fe,Al,Ti)(Si,Al)<sub>2</sub>O<sub>6</sub> (Zn,Cu<sup>2+</sup>)<sub>3</sub>(CO<sub>3</sub>)<sub>2</sub>(OH)<sub>6</sub> (Mn<sup>2+</sup>,Ag,Ca)Mn<sub>3</sub><sup>4+</sup>O<sub>7</sub>3H<sub>2</sub>O CaZn(AsO<sub>4</sub>)(OH) Augite Aurichalcite Aurorite Austinite Cu32+(CO3)2(OH)2 Azurite Ca<sub>4</sub>B<sub>4</sub>(BO<sub>4</sub>)(SiO<sub>4</sub>)<sub>3</sub>(OH)<sub>3</sub> H<sub>2</sub>O Rekerite KCa(Fe<sup>2+</sup>,Mn<sup>2+</sup>,Zn,Mg)<sub>20</sub>(Si,Al)<sub>32</sub>O<sub>76</sub>(OH)<sub>16</sub>'4-12H<sub>2</sub>O Bannisterite BaSO<sub>4</sub> BaFe<sub>8</sub><sup>3+</sup>(AsO<sub>4</sub>)<sub>6</sub>(OH)<sub>8</sub>: 14H<sub>2</sub>O Barium-pharmacosiderite BaBe<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> Barylite Barysilite PhaMn(SiaOz)a 2CaSO<sub>4</sub>'H<sub>2</sub>O Bassanite Pb<sub>3</sub>As<sub>4</sub>S<sub>9</sub> Mn<sub>8</sub><sup>2+</sup>Si<sub>6</sub>O<sub>15</sub>(OH)<sub>10</sub> Baumhauerite Bementite

 Calmite
 Ca<sub>2</sub>B(AsO<sub>4</sub>)(OH)<sub>4</sub>

 Calcite
 CaCO<sub>2</sub>

 Carrositie
 Mg<sub>2</sub>CO<sub>2</sub>N(HBO<sub>3</sub>) 5H<sub>2</sub>O

 Carropilite
 Cu(Co.N1)<sub>2</sub>S<sub>4</sub>

 Caryopilite
 (Mn<sup>2</sup> Mg<sub>3</sub>)Si<sub>2</sub>O<sub>3</sub>(OH)<sub>4</sub>

 Celstine
 SrSO<sub>4</sub>

 Celstine
 BaAl<sub>3</sub>Si<sub>2</sub>O<sub>3</sub>

 Cerussite
 PbCO<sub>3</sub>

PbCO<sub>3</sub> (Ca<sub>0.5</sub> K,Na)<sub>4</sub>[Al<sub>4</sub>Si<sub>8</sub>O<sub>24</sub>]·12H<sub>2</sub>O Chahazite-Ca Cu<sub>2</sub>S Chalcocite (Zn,Fe<sup>2+</sup>,Mn<sup>2+</sup>)Mn<sub>3</sub><sup>4+</sup> O<sub>7</sub> 3H<sub>2</sub> O Chalcophanite Chalcopyrite CuFeS2 Cure52 (Fe<sup>2+</sup>,Mg,Fe<sup>3+</sup>)<sub>5</sub>Al(Si<sub>3</sub>,Al)O<sub>10</sub>(OH,O)<sub>8</sub> Ca<sub>6</sub>(Al,Si)<sub>2</sub>(SO<sub>4</sub>)<sub>2</sub>B(OH)<sub>4</sub>(OH,O)<sub>12</sub> 26H<sub>2</sub>O (Fe<sup>2+</sup>,Mg,Mn)<sub>2</sub>Al<sub>4</sub>Si<sub>2</sub>O<sub>10</sub>(OH)<sub>4</sub> 20 Charlesite Chloritoid (Ye , wg,win/2rds)(OH)(OH)(OH)(Mn,Mg)<sub>2</sub>C(AsO<sub>4</sub>)(OH,O)<sub>6</sub> (Mg,Fe<sup>+</sup>)<sub>3</sub>(SiO<sub>4</sub>)<sub>2</sub>(F,OH)<sub>2</sub> (Cu<sup>2+</sup>,Al)<sub>2</sub>H<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub>nH<sub>2</sub>O Mn<sup>2+</sup>(Mg,Mn<sup>2+</sup>)<sub>2</sub>Zn<sub>2</sub>(OH)<sub>10</sub>2-4H<sub>2</sub>O (Mg,Fe<sup>2+</sup>)<sub>5</sub>Al(Si<sub>3</sub>Al)O<sub>10</sub>(OH)<sub>8</sub> 3. Chloropho Chondrodite Chrysocolla Cianciulliite Clinochlore

Clinochrysotile Mg<sub>3</sub>Si<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub> Cu<sub>3</sub><sup>2+</sup>(AsO<sub>4</sub>)(OH)<sub>3</sub> CaZnSiO<sub>4</sub>'H2O (Mg,Fe<sup>2+</sup>)<sub>9</sub>(SiO<sub>4</sub>)<sub>4</sub>(F,OH)<sub>2</sub> Ca<sub>2</sub>Al<sub>3</sub>(SiO<sub>4</sub>)<sub>3</sub>(OH) Clinoclase Clinohedrite Clinohumite Clinozoisite CaMg<sub>2</sub>Al<sub>3</sub>SiO<sub>10</sub>(OH)<sub>2</sub> CaCu<sup>2+</sup>(AsO<sub>4</sub>)(OH) Clintonite Conichalcite Cu192+Cl4(SO4)(OH)323H2O Connellite Copper Al<sub>2</sub>O<sub>3</sub> CuS Covellite K(Mn<sup>4+</sup>,Mn<sup>2+</sup>)<sub>8</sub>O<sub>16</sub> Mg<sub>7</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub> Cryptomelane Cummingtonite

Cuprite

Cuprostibite

Cuspidine

Cu21+O

Cu<sub>2</sub>(Sb,Tl) Ca<sub>16</sub>(Si<sub>2</sub>O<sub>7</sub>)<sub>4</sub>(F,OH)<sub>8</sub>

Cu42+Al2(SO4)(OH)122H2O Cyanotrichite Ca2B2Si2O8(OH)2 Datolite PhZn(VO<sub>4</sub>)(OH) Descloizit CaCu42+(SO4)2(OH)63H2O Devilline Digenite Cu<sub>9</sub>S<sub>5</sub> CaMgSi<sub>2</sub>O<sub>6</sub> Diopside Cu<sub>31</sub>S<sub>16</sub> CaMg(CO<sub>3</sub>)<sub>2</sub> Diurleite Dolomite Domeykite CurAs NaMg3Al6(BO3)3Si6O18(OH)4 Dravite PbCu(AsO<sub>4</sub>)(OH) Duftite Mgs(CO<sub>3</sub>)<sub>4</sub>(OH)<sub>2</sub>·5H<sub>2</sub>O Dypingite Edenite

 Edenite
 NaCa<sub>2</sub>Mg<sub>3</sub>Si<sub>3</sub>AlO<sub>2</sub>(OH)<sub>2</sub>

 Epidote
 Ca<sub>8</sub>(Fe<sup>2</sup>, Al)<sub>3</sub>(SiO<sub>2</sub>)<sub>3</sub>(OH)

 Episomite
 Mg<sub>2</sub>SO<sub>2</sub>/H<sub>2</sub>O

 Erythrite
 Co<sub>3</sub>(AsO<sub>2</sub>)<sub>2</sub>8H<sub>2</sub>O

 Esperite
 PbCa<sub>2</sub>Za<sub>2</sub>(SiO<sub>3</sub>)

 Euchrotie
 Cu<sup>2</sup>(AsO<sub>3</sub>)(OH) 3H<sub>2</sub>O

 Eveite
 Mm<sub>2</sub><sup>2</sup>(AsO<sub>3</sub>)(OH)

 Favalite
 Fe<sup>2</sup>SiO<sub>4</sub>

Forsterite Mgs3UU\_CH3,
Fraipotitie (Zn,Al)<sub>2</sub>(Si,Al)<sub>2</sub>O<sub>3</sub>(OH)<sub>2</sub>
Franklinite (Zn,M'',Fr'',Al)M'' Mn', 'Zn,Si<sub>2</sub>O<sub>18</sub>(OH)<sub>8</sub>
Franklinite (Zn,M'',Fr'',M'',Y'',Zn,Si<sub>2</sub>O<sub>18</sub>(OH)<sub>8</sub>
Franklinite (K,Na)<sub>8</sub>(Mm'', Zn,Mg, Fr'')<sub>34</sub>(Si,Al)<sub>72</sub>(O,OH)<sub>216</sub>6H<sub>2</sub>O
Franklinite (Mn'',Si<sub>4</sub>O<sub>3</sub>(OH)CH)<sub>2</sub>

Gageite-Itc (Mn<sup>2+</sup>,Mg,Zn)<sub>42</sub>Si<sub>16</sub>O<sub>54</sub>(OH)<sub>40</sub>

Haidingerite CaHAsO, H<sub>2</sub>O
Halotrichite Fe<sup>2+</sup>Al<sub>2</sub>(SO<sub>4</sub>), 22H<sub>2</sub>O
Hancockite (Pb,Ca,Sr)<sub>2</sub>(Al,Fe<sup>2+</sup>)<sub>1</sub>(SiO<sub>4</sub>)<sub>2</sub>(OH)
Harringstite (a<sub>2</sub>,Zn<sub>3</sub>)<sub>2</sub>O
Hastingsite NaCa<sub>2</sub>(Fe<sup>2+</sup>)<sup>2</sup>Si<sub>4</sub>Al<sub>2</sub>O<sub>2</sub>(OH)<sub>2</sub>
\*\*Hauckite (Mg,M<sup>2+</sup>)<sub>2</sub>X<sub>2</sub>I<sub>10</sub>Fe<sup>3+</sup>(SO<sub>4</sub>)<sub>4</sub>(CO<sub>3</sub>)<sub>2</sub>(OH)<sub>11</sub>(7)
Hausmannite Mn<sup>2+</sup>Nu<sup>2</sup>D<sub>4</sub>(Fe<sup>3+</sup>)<sup>2</sup>Si<sub>4</sub>Al<sub>2</sub>O<sub>2</sub>(OH)<sub>11</sub>(7)

CaSO<sub>4</sub>2H<sub>2</sub>O

\*\*Hodgicinsonite\*\*
\*\*Hodgicinsonite\*\*
\*\*Hodgicinsonite\*\*
\*\*Holdenite\*\*
\*\*Holdenite\*\*
\*\*Hucherite\*\*
\*\*Humite\*\*
\*\*Humite\*\*
\*\*Humite\*\*
\*\*Hyulophane\*\*
\*\*Hyulophane\*\*
\*\*Hyulophane\*\*
\*\*Hyulophane\*\*
\*\*Lyalophane\*\*
\*\*Lyaloph

| Illite | K<sub>0.65</sub>Al<sub>2-0</sub>□Al<sub>0.65</sub>Si<sub>3.35</sub>O<sub>10</sub>(OH)<sub>2</sub> | Ilmenite | Fe<sub>2</sub><sup>2+</sup>TiO<sub>3</sub>

Gypsum

(Mn<sup>2+</sup>,Fe<sup>2+</sup>,Mg)(Fe<sup>3+</sup>,Mn<sup>3+</sup>)<sub>2</sub>O<sub>4</sub> Mn<sub>3</sub><sup>2+</sup>Mn<sup>3+</sup>(AsO<sub>4</sub>)(OH)<sub>6</sub> Mn<sub>9</sub><sup>2+</sup>(SiO<sub>4</sub>)<sub>4</sub>(OH)<sub>2</sub> CaMn<sup>2+</sup>Si<sub>2</sub>O<sub>6</sub> Iacobsite Quartz SiO 13. Jarosewichite NiAs<sub>2</sub> Jerrygibbsite Johannsenite Realgar
27 • Retzian-(La) AsS 14. Johnbaumite (Mn<sup>2+</sup>,Mg)<sub>2</sub>(La,Ce,Nd)(AsO<sub>4</sub>)(OH)<sub>4</sub> Ca<sub>5</sub>(AsO<sub>4</sub>)<sub>3</sub>(OH) Mn<sub>2</sub><sup>2+</sup>(Nd,Ce,La)(AsO<sub>4</sub>)(OH)<sub>4</sub> Mn<sup>2+</sup>CO<sub>3</sub> (Mn<sup>2+</sup>,Fe<sup>2+</sup>,Mg,Ca)SiO<sub>3</sub> 28 Retzian-(Nd) Junitoite CaZn2Si2O7H2O Rhodochrosite Al<sub>2</sub>Si<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub> Pb<sub>2</sub>Mn<sub>2</sub><sup>3+</sup>Si<sub>2</sub>O<sub>5</sub> Ca<sub>4</sub>Mn<sub>2</sub><sup>2+</sup>Mn<sub>4</sub><sup>3+</sup>Si<sub>4</sub>O<sub>16</sub>(OH)<sub>8</sub>:18H<sub>2</sub>O Rhodonite Kentrolite Richterite Na(CaNa)Mg<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub> 15. Kittatinnyite Pb<sub>2</sub>Ca<sub>6</sub>Mn<sup>2+</sup>(Si<sub>6</sub>O<sub>18</sub>)(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>2</sub>·4H<sub>2</sub>O (Ca,Fe<sup>2+</sup>,Mn<sup>2+</sup>,Na)<sub>2</sub>(Sb,Ti)<sub>2</sub>O<sub>6</sub>(O,OH,F) (Cu<sup>2+</sup>,Zn)<sub>2</sub>(CO<sub>3</sub>)(OH)<sub>2</sub> Roeblingite Zn3(AsO4)2'8H2O Koettigite Romeite 16 Kolicite Mn<sub>7</sub><sup>2+</sup>Zn<sub>4</sub>(AsO<sub>4</sub>)<sub>2</sub>(SiO<sub>4</sub>)<sub>2</sub>(OH)<sub>8</sub> Rosasite  $\begin{array}{l} (Mn^{2+},Mg)_{24}Zn_3Fe^{3+}(As^{3+}O_3)_2(As^{5+}O_4)_3(SiO_4)_6(OH)_{18} \\ Ca(Mn^{2+},Mg,Fe^{2+})(CO_3)_2 \end{array}$ Roweite Ca2Mn22+B4O7(OH)6 Rutile TiO2 Kutnahorite Safflorite (Co.Fe)As 29 Samfowle Ca<sub>28</sub>Mn<sub>6</sub>Zn<sub>4</sub>(Be,Zn)<sub>4</sub>Be<sub>12</sub>(SiO<sub>4</sub>)<sub>12</sub>(Si<sub>2</sub>O<sub>7</sub>)<sub>8</sub>(OH)<sub>12</sub> Ca4[Al8Si16O48] 18H2O Laumontite Mn2<sup>+2</sup>(AsO<sub>4</sub>)(OH) Na<sub>0.3</sub>Zn<sub>3</sub>(Si,Al)<sub>4</sub>O<sub>10</sub>(OH)<sub>2</sub>·4H<sub>2</sub>O (Mn<sup>+2</sup>,Fe<sup>+2</sup>)<sub>16</sub>Si<sub>12</sub>As<sub>3</sub><sup>+3</sup>O<sub>36</sub>(OH)<sub>17</sub> 1,Mg)<sub>9</sub>Zn<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>22</sub>8H<sub>2</sub>O Sarkinite 18. Lawsoni (Mn Lead Sauconite Schallerite Zn<sub>2</sub>(AsO<sub>4</sub>)(OH) H<sub>2</sub>O K<sub>6-7</sub>(Mg<sub>8</sub>,Mn<sup>2+</sup>, Fe<sup>2+</sup>,Zn)<sub>48</sub>(Si<sub>4</sub>Al)<sub>72</sub>(O,OH)<sub>216</sub>;16H<sub>2</sub>O Mn<sub>7</sub><sup>2+</sup>(SiO<sub>4</sub>)<sub>5</sub>(OH)<sub>2</sub> PbCu<sup>2+</sup>(SO<sub>4</sub>)(OH)<sub>2</sub> Legrandite CaWO<sub>4</sub> NaFe<sub>3</sub><sup>+2</sup>Al<sub>6</sub>(BO<sub>3</sub>)<sub>3</sub>Si<sub>6</sub>O<sub>18</sub>(OH)<sub>4</sub> 19\*Lennilenapeite Scheelite Schorl Leucophoenicite 30 Sclarite (Zn,Mg,Mn<sup>2+</sup>)<sub>4</sub>Zn<sub>3</sub>(CO<sub>3</sub>)<sub>2</sub>(OH)<sub>10</sub> Fe<sup>3+</sup>AsO<sub>4</sub>2H<sub>2</sub>O Linarite Cu22+AI(AsO4)(OH)4-4H2O Scorodite Liroconite Seligmannite PbCuAsS<sub>3</sub> Lizardite Mg3Si2O5(OH)4 Mg<sub>4</sub>Si<sub>6</sub>O<sub>15</sub>(OH)<sub>2</sub>·6H<sub>2</sub>O Ca(Cu<sup>2+</sup>,Zn)<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>·3H<sub>2</sub>O Fe<sup>2+</sup>CO<sub>3</sub> Loellingite Sepiolite FeAs<sub>2</sub> (Mn<sup>2+</sup>,Zn)<sub>7</sub>(CO<sub>3</sub>)<sub>2</sub>(OH)<sub>10</sub> Losevite Serpierite Siderite □Ca<sub>2</sub>[Mg<sub>4</sub>(Al,Fe<sup>2+</sup>)]Si<sub>2</sub>AlO<sub>22</sub>(OH)<sub>2</sub> □Na<sub>2</sub>(Mg<sub>3</sub>,Fe<sub>2</sub><sup>3+</sup>)Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub> (Mg<sub>2</sub>Mn)<sub>2</sub>Zn<sub>2</sub>(AsO<sub>4</sub>)(OH,O)<sub>6</sub> Fe<sup>2+</sup>Fe<sub>2</sub><sup>3+</sup>O<sub>4</sub>(OH,Cl) (Mn<sub>2</sub><sup>2+</sup>As<sub>3</sub><sup>3+</sup>O<sub>5</sub>(OH,Cl) Cu<sub>2</sub><sup>2+</sup>(CO<sub>3</sub>)(OH)<sub>2</sub> Al<sub>2</sub>SiO<sub>5</sub> Magnesiohornblende Sillimanite Magnesioriebeckite Silver Ag Magnesiu Sjogrenite Mg6Fe23+(CO3)(OH)16'4H2O CoAs<sub>2-3</sub> Magnetite Skutterudite CoA52-3 ZnCO<sub>3</sub> Mn<sub>9</sub><sup>2+</sup>(SiO<sub>4</sub>)<sub>4</sub>(OH,F)<sub>2</sub> Cu<sub>6</sub><sup>2+</sup>Al(SO<sub>4</sub>)(OH)<sub>12</sub>Cl·3H<sub>2</sub>O Mn<sub>3</sub><sup>2+</sup>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub> Smithsonite Magnussonite Malachite Sopolite Cu<sub>2</sub> (CO<sub>3</sub>)(OH)<sub>2</sub> Ca<sub>2</sub>Mn<sup>2+</sup>Al<sub>2</sub>BSi<sub>4</sub>O<sub>15</sub>(OH) (Ca<sub>1</sub>Na)<sub>2</sub>)(Mn<sup>2+</sup>,Mg)<sub>2</sub>ASO<sub>4</sub>)<sub>3</sub> (Mn<sup>2+</sup>,Mg)<sub>3</sub>(ASO<sub>4</sub>)<sub>2</sub>8H<sub>2</sub>O (Mn<sup>2+</sup>,Mg)<sub>7</sub>(SiO<sub>4</sub>)<sub>3</sub>(OH)<sub>2</sub> Mn<sup>3+</sup>O(OH) Manganaxinite Spangolite Manganberzeliite Spessartine Manganese-hoernesite Sphalerite Spinel MgAl<sub>2</sub>O<sub>4</sub> Manganhumite Starkeyite MgSO<sub>4</sub>·4H<sub>2</sub>O Mn<sub>3</sub><sup>+2</sup>(AsO<sub>4</sub>)<sub>2</sub>·4H<sub>2</sub>O Manganite Manganocummingtonite □Mn<sub>2</sub>Mg<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub> Sterlinghillite Sb<sub>2</sub>S<sub>3</sub> Manganosite Mn<sup>2+</sup>O (Mn<sup>2+</sup>,Fe<sup>2+</sup>)<sub>8</sub>Si<sub>6</sub>O<sub>15</sub>(OH,Cl)<sub>10</sub> Stihnite Stilbite-Na or (Na,Ca<sub>0.5</sub>,K)<sub>9</sub>[Al<sub>9</sub>Si<sub>27</sub>O<sub>72</sub>]28H<sub>2</sub>O (Ca<sub>0.5</sub>,Na,K)<sub>9</sub>[Al<sub>9</sub>Si<sub>27</sub>O<sub>72</sub>]28H<sub>2</sub>O Manganpyrosmalite Marcasite FeS. -Ca CaAl<sub>2</sub>□Al<sub>2</sub>Si<sub>2</sub>)O<sub>10</sub>(OH)<sub>2</sub> Pb(Ca,Mn<sup>2+</sup>)<sub>2</sub>Si<sub>3</sub>O<sub>9</sub> 3NaAlSi<sub>3</sub>O<sub>8</sub> NaCl NaCaMn<sub>3</sub><sup>2+</sup>Si<sub>5</sub>O<sub>14</sub>(OH) Strontianite SrCO Margarite Sulfur Margarosi S Mn2+BO2(OH) Marialite Sussexite (Mn<sup>2+</sup>.Mg,Ca,Pb)<sub>9</sub>(As<sup>3+</sup>O<sub>3</sub>)(As<sup>5+</sup>O<sub>4</sub>)<sub>2</sub>(OH)<sub>9</sub> 2H<sub>2</sub>O Ca(Ce,La)(CO<sub>3</sub>)<sub>2</sub>F Synadelphite Marsturite Mg<sub>2</sub>B<sub>12</sub>O<sub>14</sub>(OH)<sub>12</sub>·9H<sub>2</sub>O (Mn<sup>2+</sup>,Mg,Zn)<sub>22</sub>(As<sup>3+</sup>O<sub>3</sub>)(As<sup>5+</sup>O<sub>4</sub>)<sub>3</sub>(SiO<sub>4</sub>)<sub>3</sub>(OH)<sub>20</sub> Synchysite-Ce Mcallisterit \*Mcgovernite 3CaAl<sub>2</sub>Si<sub>2</sub>O<sub>8</sub>·CaCO<sub>3</sub> Talc Mg3Si4O10(OH)2 Meionite Meta-ankoleite K2(UO2)2(PO4)2·6H2O Tennantite (Cu,Ag,Fe,Zn)<sub>12</sub>As<sub>4</sub>S<sub>13</sub> Mn<sub>2</sub><sup>2+</sup>SiO<sub>4</sub> Tephroite Metalodevite Zn(UO<sub>2</sub>)<sub>2</sub>(AsO<sub>4</sub>)<sub>2</sub> 10H<sub>2</sub>O Cu<sup>2+</sup>(UO<sub>2</sub>)<sub>2</sub>(AsO<sub>4</sub>)<sub>2</sub> 8H<sub>2</sub>O (Cu,Fe,Ag,Zn)<sub>12</sub>Sb<sub>4</sub>S<sub>13</sub> Ca<sub>2</sub>Na[Al<sub>5</sub>Si<sub>5</sub>O<sub>20</sub>]·6H<sub>2</sub>O Tetrahedrite Metazeunerite KALSi<sub>3</sub>O<sub>8</sub> Pb<sub>5</sub>(AsO<sub>4</sub>)<sub>3</sub>Cl Microcline Thomsonite (Th,U)SiO4 Thorite Mimetite 22 Minehillite (K,Na)2.3Ca28Zn4Al4Si40O112(OH)16 Thortveitite (Sc YaSiaO (Th,U,Ca)Ti<sub>2</sub>(O,OH)<sub>6</sub> Molybdenite-2H MoS<sub>2</sub> Thorutite (Ce,La,Nd,Th)PO4 CaMg(AsO<sub>4</sub>)F Tilasite Monazite-(Ce) CaCO<sub>3</sub> H<sub>2</sub>O (Mg,Zn,Mn<sup>2+</sup>)<sub>15</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>26</sub> 8H<sub>2</sub>O CaTiSiOs Monohydrocalcite Titanite 23 \* Mooreite (Mn2+,Ca,Mg)Mn1+4 O1 H2 O Todorokite KAl2 AlSi3O10OH2 Torreyite (Mg,Mn2+)<sub>9</sub>Zn<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>22</sub>8H<sub>2</sub>O Muscovite-IM Tremolite □Ca<sub>2</sub>Mg<sub>5</sub>Si<sub>8</sub>O<sub>22</sub>(OH)<sub>2</sub>
Ca<sub>5</sub>[(As,P)O<sub>4</sub>]<sub>3</sub>Cl Pb6Ca4Si6O21Cl2 Nasonite Poc.4434Q2[C-12 Na2[Al<sub>2</sub>Si<sub>2</sub>O<sub>10</sub>]2H<sub>2</sub>O (Mn<sup>2+</sup>, Fe<sup>2+</sup>)<sub>16</sub>Si<sub>12</sub>As<sub>3</sub><sup>3+</sup>O<sub>36</sub>(OH)<sub>17</sub> (Mn<sup>2+</sup>, Fe<sup>2+</sup>)SiO<sub>3</sub><sup>+</sup>H<sub>2</sub>O(?) MgHPO<sub>4</sub><sup>-</sup>3H<sub>2</sub>O Turneaureite Natrolite Nelenite Ca2(Mg,Al)5(Si,Al)8O22(OH)2 Unnamed amphibole Neotocite Uraninite UO<sub>2</sub> Newberyite Ca(UO<sub>2</sub>)<sub>2</sub>[SiO<sub>3</sub>(OH)]<sub>2</sub>·5H<sub>2</sub>O Uranophane (NH<sub>4</sub>)(Mn<sup>2+</sup>,Mg,,Ca)PO<sub>4</sub>·H<sub>2</sub>O Niahite Ca(UO<sub>2</sub>)<sub>2</sub>(AsO<sub>4</sub>)<sub>2</sub>·10H<sub>2</sub>O (Ca,Na)(Mg,Fe<sup>2+</sup>)<sub>3</sub>Al<sub>5</sub>Mg(BO<sub>3</sub>)<sub>3</sub>Si<sub>6</sub>O<sub>18</sub>(OH,F)<sub>4</sub> Uranospinite Nickeline NIAS Na<sub>0.3</sub>Fe<sub>2</sub><sup>3+</sup>(Si,Al)<sub>4</sub>O<sub>10</sub>(OH)<sub>2</sub>·nH<sub>2</sub>O Nontronite Norbergite Mg3(SiO4)(F,OH)2  $\begin{array}{l} Ca_{10}Mg_{2}AI_{4}(SiO_{4})_{5}(Si_{2}O_{7})_{2}(OH)_{4} \\ (Mn^{2+},Ca_{4}Zn)_{5}(AsO_{4})_{2}[AsO_{3}(OH)]_{1}^{2}4H_{2}O \end{array}$ Vesuvianite Villyaellenite Ca<sub>3</sub>(Zn,Mn,<sup>2+</sup>)Fe<sub>4</sub><sup>3+</sup>(AsO<sub>4</sub>)<sub>4</sub>(OH)<sub>6</sub>·6H<sub>2</sub>O Ogdensburgite ZnFe<sub>2</sub><sup>+3</sup>(AsO<sub>4</sub>)<sub>2</sub>(OH)<sub>2</sub>·4H<sub>2</sub>O (Na,Ca)Al(Al,Si)Si<sub>2</sub>O<sub>8</sub> Ojuelaite Ca<sub>4</sub>Mn<sub>6</sub><sup>2+</sup>As<sub>4</sub><sup>5+</sup>O<sub>16</sub>(OH)<sub>8</sub>·18H<sub>2</sub>O Ca<sub>12</sub>Mn<sub>4</sub><sup>2+</sup>B<sub>2</sub>Be<sub>18</sub>Si<sub>12</sub>O<sub>46</sub>(OH,Cl)<sub>30</sub> Ca<sub>2</sub>(Mg,Co)(AsO<sub>4</sub>)<sub>2</sub>.2H<sub>2</sub>O 32 Wallkilldellite Oligoclase 33\*Wawayandaite Orthochrysotile Mg<sub>3</sub>Si<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub> Wendwilsonite Orthoclase KAlSi<sub>3</sub>O<sub>8</sub> Ca(Cu<sup>2+</sup>,Zn)<sub>4</sub>(SO<sub>4</sub>)<sub>2</sub>(OH)<sub>6</sub>·3H<sub>2</sub>O Willemite Zn<sub>2</sub>SiO<sub>4</sub> Orthoserpierite CaSiO<sub>3</sub> (Zn,Mn<sup>2+</sup>)Mn<sub>3</sub><sup>4+</sup>O<sub>7</sub>.1-2H<sub>2</sub>O Wollastonite CdCO Woodruffite Wulfenite 25\*Parabrandtite Ca2Mn2+(AsO4)2.2H2O Wurtzite (Zn.Fe)S NiAs<sub>2</sub> Fe<sub>3</sub><sup>2+</sup>(AsO<sub>4</sub>)<sub>2</sub>·8H<sub>2</sub>O Pararammelsbergite Parasymplesite Xonotlite Ca6Si6O17(OH)2 NaCa<sub>2</sub>(Mg<sub>4</sub>Al)Si<sub>6</sub>Al<sub>2</sub>O<sub>22</sub>(OH)<sub>2</sub> NaCa<sub>2</sub>Si<sub>3</sub>O<sub>8</sub>(OH) Pargasite Pectolite Mn92+Zn6Sb25+Si4O28 Mn<sub>5</sub><sup>2+</sup>Al(Si<sub>3</sub>Al)O<sub>10</sub>(OH)<sub>8</sub> Ca(Zn,Mn<sup>2+</sup>,Fe<sup>2+</sup>,Mg)Si<sub>2</sub>O<sub>6</sub> CaHAsO<sub>4</sub>·2H<sub>2</sub>O 34 eYeatmanite Pennantite-la Yukonite Ca<sub>2</sub>Fe<sub>3</sub><sup>3+</sup>(AsO<sub>4</sub>)<sub>4</sub>(OH):12H<sub>2</sub>O(?) 26 Petedunnite Pharmacolite Zinalsite Zn<sub>2</sub>AlSi<sub>2</sub>O<sub>5</sub>(OH)<sub>4</sub> 2H<sub>2</sub>O KFe43+(AsO4)3(OH)46-7H2O Pharmacoside 7incite (Zn.Mn2+)O KMg<sub>3</sub>AlSi<sub>3</sub>O<sub>10</sub>(OH)<sub>2</sub> H<sub>2</sub>Ca<sub>4</sub>Mg(AsO<sub>4</sub>)<sub>4</sub>·11H<sub>2</sub>O Ca<sub>2</sub>(Al,Mn<sup>3+</sup>,Fe<sup>3+</sup>)<sub>3</sub>(SiO<sub>4</sub>)<sub>3</sub>(OH) Phlogopite-IM Zinkenite Pb9Sb22S42 Picropharmacolite ZrSiO<sub>4</sub> Zircon Piemontite CaZn<sub>11</sub>(UO<sub>2</sub>)(CO<sub>3</sub>)<sub>3</sub>(OH)<sub>20</sub>·4H<sub>2</sub>O Znucalite CaMoO<sub>4</sub> Powellite

Minerals Unique to Franklin and Sterling Hill = 34

Total Mineral Species found at Franklin and Sterling Hill = 353

Changes to the list: glaucodot added (Nikkischer, A., P/T, '01) - Franklin Mine

cyanotrichite added (Dunn, P.J., 1985) - Sterling Mine sterlinghillite off the unique list, found in Japan

pimelite is not a valid species; related to var. of talc
\*\*minerals described by Dunn, P.J. 1995; not in Fleischer's Glossary

Ca<sub>2</sub>Al<sub>2</sub>Si<sub>3</sub>O<sub>10</sub>(OH)<sub>2</sub>

FeS2

Mn<sup>2+</sup>(OH)<sub>2</sub> Mn<sup>2+</sup>TiO<sub>3</sub>

Mn2+SiO3

Fe<sub>1-x</sub>S

Ca2MgAl2(SiO4)(Si2O1)(OH)2 H2O

Mg<sub>6</sub>Fe<sub>2</sub><sup>3+</sup>(CO<sub>3</sub>)(OH)<sub>16</sub>·4H<sub>2</sub>O PbMn<sup>2+</sup>(VO<sub>4</sub>)(OH)

Prehnite

Pyrite

Pyroaurite Pyrobelonite

Pyrochroite

Pyrophanite

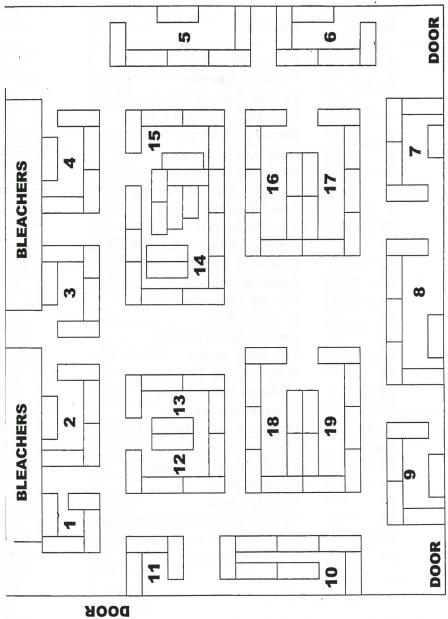
Pyrrhotite

Pyroxmangite

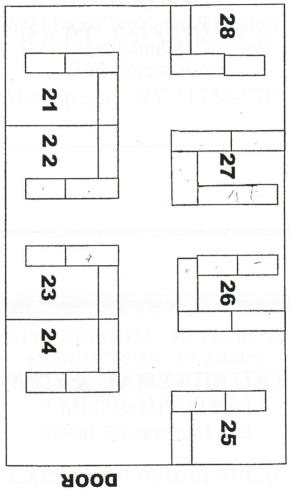
Pumpellyite-(Mg)

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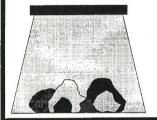
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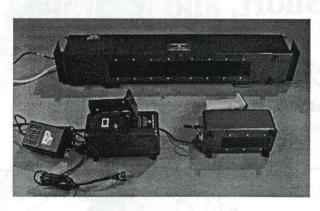
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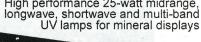
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# Meet The Staff Of The Franklin Mineral Museum

**Curator/Emeritus:** Jack Baum

<u>Curator:</u> John Cianciulli <u>Manager:</u> Doreen Longo

Assistant Manager: Andy Richter

Administrative Assistant: Carol Durham

**Docents:** Sue Hasten

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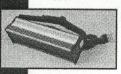
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### **INSTITUTIONS:**

Franklin Mineral Museum

Franklin Ogdensburg Mineralogical Society, Inc.

Harvard University Geological Museum

Rutgers University Geological Museum

Sterling Hill Mining Museum

Franklin Heritage Museum

Thomas S. Warren Museum of Fluorescence

### Franklin-Ogdensburg Mineralogical Society, Inc. BOX 146 FRANKLIN, NJ 07416

The Franklin-Ogdensburg Mineralogical Society, Inc., is an organization established to provide programs designed to benefit the community, the collector and those interested in the minerals, mineralogy and geology of the Franklin-Ogdensburg area of New Jersey.

### Our purpose is:

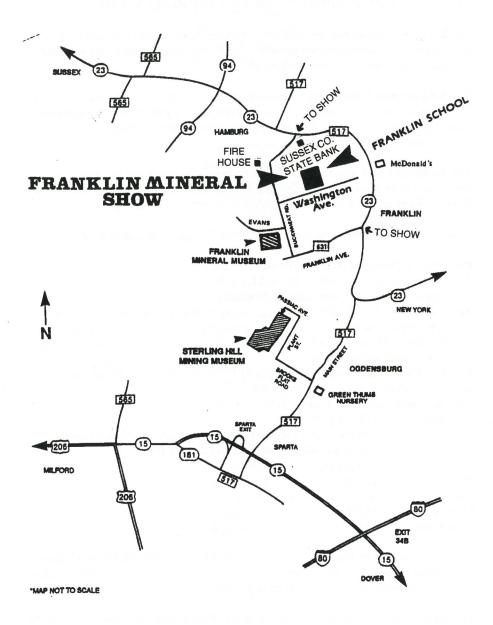
- To establish and maintain, in cooperation with other interested groups, a permanent Museum in Franklin, New Jersey, for the minerals of Franklin and Ogdensburg.
- To develop new information on the minerals and mineralogy through cooperative programs with Universities and other scientific organizations and individuals.
- 3. To obtain and make available accurate up-to-date information on the minerals and mineralogy of the areas.
- To facilitate collecting of the minerals while conserving material for future collectors.
- 5. To facilitate identification of the minerals.
- To promote fellowship and the advancement of mineralogy and geology by providing meetings for the members of the Society.

If you are interested in these or related programs, you are invited to join with us. Our yearly activities consist of seven scheduled meetings and field trips, with special trips to Museums, Universities and other areas of special interest. Our publication "The Picking Table", which is issued twice yearly, in March and September, will advise you regarding the meeting and field trip dates and other activities of the Society.

### Dues are \$15 for individual memberships - \$20 for family memberships

Mail your check to:

# Carol Durham, 60 Alpine Road, Sussex, New Jersey 07461 MEMBERSHIP APPLICATION NAME (Mr. Mrs. Ms.) ADDRESS TOWN STATE ZIP CODE PHONE (Please Print or Type)



### 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 depends 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. Income from the endowment fund is reinvested and may be used for operations, if necessary. Donations to this fund are applied to the principle, which are invested in secure interest earning accounts.

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

**Color Book Fund** (book will consist of 136 9x12 pages with a hardcover)

### Present and Proposed Building Fund Projects:

New cases for Welsh Hall – for a \$1,500.00 donation a bronze plate will be mounted on a case with your name or dedication.

*New Benches* – for a \$100.00 donation a bronze plate will be mounted on the back of a bench with your name or dedication. There are only five benches available.

*The Pavilion* – Donations of \$100.00 or more for this project will be acknowledged on a special dedication plaque.

Ramp to Buckwheat Dump – Donations of \$100.00 or more for this project will be acknowledged on a special dedication plaque.

General Donations - Donations will be as follows:

**Individual** - \$15 per year

\$10 per year for students (grammar, high school, and college

students of all ages with a valid college ID)

Family - \$25 per year
Patron - \$50 per year
Life - \$500 one time fee
Corporate - \$1,000 one time fee

Sustaining - \$5,000 in money, material, and/or services

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.

### 2001 Booster List

C.Richard Bieling Richard Bostwick Mark Boyer Robert Boymistruk John Baum Augusta Baum John Cianciulli Ron De Blois Carol Durham **Daniel Durham** Megan Durham George Elling Mike Faryna **Pete Gillis Tema Hecht** Larry Kennedy Joe Klitsch **Steven Kuitems** Joe Kaiser L & P Lapidary Lee Lowell Miriam Lowell Steven Misiur Claude Poli **Andy Richter** John Reiser Jim Rumrill Paul Shizume Earl Sullivan **Ralph Thomas Bill Tross** Earl Verbeek Maureen Verbeek Wilfred Welsh James Wynd Fred Young **Sharon Young** 



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April 27, 2002, Sat. 9 AM - 5:30 PM April 28, 2002, Sun. 10 AM - 5 PM

Donation: \$4.00 per person - Children under 14 FREE with paying adult

Donation covers both show locations

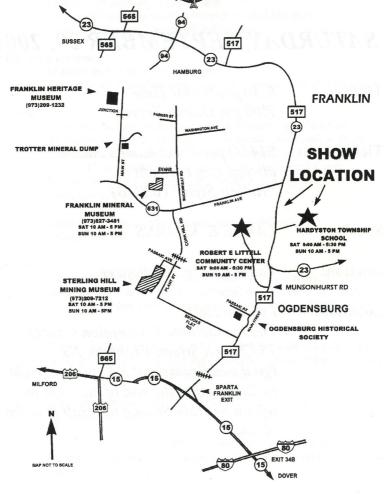
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### SATURDAY, SEPTEMBER 29, 2001

TIME: 6:30 pm Social Time

7:00 pm Dinner Served

**Tickets:** \$14.00 per ticket admits one to

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**Speaker:** LANCE E. KEARNS

Auction: Vandall King, Auctioneer

**Location:** Lyceum Hall

The Immaculate Conception Church

75 Church Street, Franklin, NJ

(go down Buckwheat Rd., make a right on to Evans go to the end of the road make a left on to Main St. and the Hall is in front

of you)

### **BIOGRAPHICAL SKETCH**

### Lance E. Kearns

Born: 05/22/49 (Jeannette, Pennsylvania)

**Education:** 

BS Waynesburg College, Pennsylvania; Geology (1971)

MS Univ. of Delaware, Newark Delaware; Coastal Processes (1973)
Ph.D. Univ. of Delaware, Newark Delaware; Mineralogy (1977)

**Dissertation:** Mineralogy of the Franklin Marble, Orange Co., New York

Employment: James Madison University 1977 to Present

Professor of Geology - Mineralogist

Curator of James Madison University Mineral Museum

Director of Summer Geology Field Program

**Present Research Interests:** 

Minerals and mineralogy of Virginia

Especially the Morefield Pegmatite and Alumino-fluoride minerals

Personal Info:

I first became interested in minerals at the early age of 6 years. By the time I was 18 years old I had collected extensively at Pugh Quarry, Ohio; Franklin, New Jersey; Cornwall Iron Mines, Cornog Quarry, Cedar Hill Quarry, Wheatly Mines and French Creek, Pennsylvania; Spruce Pine, North Carolina, and Bay of Fundy Area, Nova Scotia.

My major personal collection was from Franklin and

Sterling Hill, NJ

Memberships:

American Mineralogical Society; Friends of Mineralogy, S.E. Chapter; honorary member of Friends of Mineralogy, Pennsylvania Chapter; honorary member Micromineralogists fo the National Capitol Area.

Family:

I am married to Cynthia (Cindy) Evaniak Kearns for the past 10 years. She is a metamorphic petrologist and Laboratory Specialist for the Geology Department at James Madison University.

I have two children; Janel L. Kearns (22 years old) and Jessica C. Kearns (23 years old).

Cindy and I have two Australian Shepherd dogs that we show occasionally, we enjoy traveling and spend most of our summer weekends at the lake water skiing and boating.

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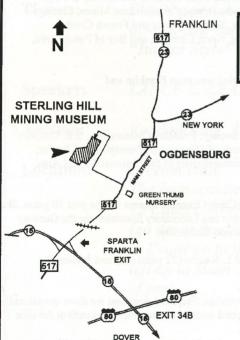
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Fax 973-827-0149 e-mail funrocks@warwick.net Web: www.franklinmineralmuseum.com

The Museum is a private, non-profit organization created for the educational and scientific purposes in mineralogy, geology, archeology, and paleontology. The Museum's primary emphasis is the history and mineralogy of the Franklin-Sterling Mineral district. We would like to welcome all our members new and old and express our appreciation for your continued support.

All Mem	harshins	include !	the following:

- Museum identification card
- . 10% discount in the museum shop, excludes consignment materials or
- · materials used for educational purposes
- Member may consign mineral related items in the museum shop at the discretion of the manager or curator.
- Museum Newsletter
- Invitations to planned Museum functions and auctions (patron, life and sustaining members)
- A special week of Holiday shopping discounts throughout our gift shop
- Discount on members children's birthday parties

### MEMBERSHIP CATEGORIES: (please circle one)

- STUDENT: \$10.00 per year (requires valid ID)
   Benefits also include 3 free admissions to either the Museum or Collecting Dump\*
- 2. INDIVIDUAL: \$15.00 per year (FOMS members 10.00)
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- FAMILY: \$25.00 per year or FAMILY PLUS: \$40.00
   Family benefits Include: 6 free admissions to either the Museum or Collecting Dump\*
   Family plus includes: 6 free admissions plus 4 guest passes
- 4. PATRON: \$50.00 per year

Benefits also Include:

- a) 12 free admissions to either the Museum or Collecting Dump\*
- b) Invitations to planned functions and auctions.
- 5. LIFE: \$500.00 one-time fee

Benefits also Include:

- a) Unlimited Museum Exhibit Visits
- b) 10 Collecting Dump\* admissions, per year.
- c) 15 Guest passes for either the Museum Exhibits or Collecting Dump per year.
- d) Invitations to planned functions and auctions.
- e) Name engraved on Museum Membership Plaque.
- SUSTAINING: \$5000.00 one time fee, American Currency, Material, and/or Services
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\*Collecting includes up to 6 pounds of rock/mineral material. -----Detach here and Mail----Phone: Name: Address: Membership fee: \$ Membership Type: Checks payable to: Franklin Mineral Museum Amount Enclosed: \$ Please charge my Visa MC Account # \_\_Exp. date \_\_\_\_ Signature (required for credit card payments) Send Membership Application and payment to: Franklin Mineral Museum, Memberships, P.O. Box 54, Franklin, NJ 07416 Membership card(s) will be mailed or issued to you upon receipt of application. ....All memberships expire on March 31\* Museum Use Only: Card Type Issued By

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June Night Dig
September Gem Show
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Theck web page for dates

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