48th ANNUAL
Franklin - Sterling
GEM & MINERAL SHOW
2004
SATURDAY, SEPTEMBER 25th • 9-6
SUNDAY, SEPTEMBER 26th • 10-5
Sponsored by
FRANKLIN, NEW JERSEY
The Fluorescent Mineral Capital of the World

Scan courtesy of the Franklin-Ogdensburg Mineralogical Society, www.FOMSNJ.org
Welcome to
The Sterling Hill Mine
in Ogdensburg, NJ

UNDERGROUND MINE TOURS

PASSAIC & NOBLE PIT
COLLECTING OPEN TO THE PUBLIC
During the Franklin-Sterling Hill Mineral Show, Sept 26, 2004
Open Sunday, 10 AM to 3 PM
Admission: $10.00 per person, $1 per pound after first 10 pounds

STERLING HILL GARAGE SALE
September 25 and 26
Saturday and Sunday, from 1 PM to 3 PM

MINE TOUR ADMISSION
ADULT 9.50
CHILDREN (UNDER 12) 7.00
SENIOR CITIZEN (65+) 8.50

HOURS
OPEN 7 DAYS A WEEK
HOURS 10 AM TO 3 PM
TOURS AT 1:00 PM DAILY
& OTHER TIMES BY CHANCE OR APPOINTMENT
FROM APRIL 1 TO NOV. 30
MARCH AND DEC., WEEKENDS ONLY
OTHER TIMES BY APPOINTMENT
MARCH AND DEC., WEEKENDS ONLY
OTHER TIMES BY APPOINTMENT

GROUP RATES AVAILABLE
For information call
(973)209-7212
FAX 973-209-8505
www.sterlinghill.org
The Franklin
Mineral Museum

would like to express
to the
Mineral Show Exhibitors
Dealers
Advertisers
and to all
who, through their dedication
have contributed their time and
talents to make our
Mineral Show a great success.
Paulus B. Moore

Paulus B. Moore was born November 24, 1940, in Stamford, Connecticut. He started collecting Franklin and Sterling Hill minerals since the age of 14 and has devoted much of his life and work expanding the mineralogical knowledge of this district. He studied at the Michigan Institute of Technology and earned his B.S. and M.S. degrees at the University of Chicago, where he was the second person in the country to receive a National Science Foundation predoctoral fellowship. He received his Ph.D. from the Royal Swedish Natural History Museum/Section for Mineralogy.

Dr. Moore is a Professor Emeritus at the University of Chicago, where he held various teaching positions since 1966, including Full Professor from 1969 to 1998. He has taught courses in mineralogy, chemical crystallography, and structural inorganic chemistry. His primary research activities have been the systematic investigation of mineral atomic arrangements, crystal chemistry, and mineral field paragenesis. He has published more than 200 professional papers in peer-reviewed journals, including 107 crystal structure analyses of mineral phases and the description of 35 new mineral species. Among his published research, Dr. Moore redefined calcium larsenite as esperite in 1965 and described gerstmannite and kraisslite as new species in 1977 and 1978, respectively. He also has authored several papers on fundamental hypotheses related to closest-packed structures of Franklin-Ogdensburg minerals.

Paulus Moore has extensive field experience in the Franklin Marble, the pegmatites of New England, the pegmatites of the South Dakota Black Hills, pegmatites of Germany and Sweden, Norway's Langesundfjord, and several iron and manganese deposits such as Laangban, Pajsberg, Nordmarken, Mossgruvan, Grythyttan, Tallgruvan, Jakobsberg, and Yxshoegruvan.

Paulus is also an assiduous researcher and collector of Rhopalocera (butterflies) and has netted (often literally) over 6,000 specimens. His travels have included butterfly-collecting expeditions to Peru, the Malay Peninsula, Papua-New Guinea, Belize, Nicaragua, Guadalcanal, and the British Solomon Islands.

Closer to home, he continues to study the minerals and geology of the Franklin Marble. Over the years, he has contributed numerous articles to The Picking Table, the journal of the Franklin-Ogdensburg Mineralogical Society (FOMS), and has spoken many times at mineralogical symposia, FOMS meetings, and other local events. In recognition of these outstanding accomplishments and contributions, we dedicate this showbook to Dr. Paulus B. Moore.
Fluorescent Minerals of Franklin and Sterling Hill, N.J.
A 2004 CHECK-LIST BASED ON OBSERVATIONS BY RICHARD C. BOSTWICK

FL = fluoresces; PH = phosphoresces; SW = shortwave ultraviolet radiation or UVC;
MW = midwave ultraviolet radiation or UVB; LW = longwave ultraviolet radiation or UVA.

These descriptions are necessarily brief and hence simplistic. The fluorescent color listed first is
considered typical for that mineral. The wavelength or wavelengths listed are those under which the
fluorescence is best seen. "FL red SW" means that the mineral typically fluoresces red, most strongly under
shortwave UV., but may fluoresce weakly under MW and/or LW. Some less common fluorescent responses
are listed in parentheses; it is not possible to list all of them here. Likewise, details of fluorescent intensity,
saturation, and hue are omitted here, as that level of description is beyond the scope of this check-list.

While mineral fluorescence can be a powerful tool for rapid mineral identification, it should be used in
conjunction with other identification techniques. Misidentifications based on fluorescence alone are common.

Albite: FL red SW
Aragonite: FL/P PH white/cream LW (FL green SW)
Barite: FL pale yellow SW (Can FL yellow SW, MW, & LW, with or without PH)
Barylite: FL violet SW, bright under iron arc
Bassanite: FL/LW violet SW
Bustamite: FL cherry red LW
Calcite: FL orange-red SW with brief red-orange PH (Rarely FL many other colors, often PH,.
Sometimes changes FL with UV wavelength)
Canavesite: FL/P violet LW
Celestine: FL/PPH cream LW (FL violet SW)
Cerussite: FL yellow LW
Chabazite: FL green SW
Chalcosite: FL pale blue SW, but usually
coated with cream-FL gypsum
Chondrodite: FL yellow, yellow-orange SW
Cinochrysolite: FL "tan" (orange-yellow) SW
Cinochredite: FL/P orange SW
Corundum: FL cherry-red LW
Cupridine: FL orange-yellow SW with brief orange-red PH; MW FL has violet tint added.
Datolite: FL cream SW
Diopside: FL blue SW, FL pale yellow MW/LW
Dolomite: FL red SW
Dundasite: FL pale yellow SW/MW/LW
Dypingite: FL/P blue SW/MW/LW
Epsomite: FL cream LW, violet MW
Esperite: FL lemon-yellow SW, faint PH
Fluorobite: FL cream SW
Fluorapatite: FL orange/"peach," SW in the ore,., violet-blue MW in the marble.
Fluorapophylite: FL/PH white SW
Fluorite: Variable! FL/PH blue-green SW/MW/LW; FL/PH violet-blue SW/MW/LW; FL/PH white to pale yellow
SW, violet-blue MW/LW; FL/PH pale yellow SW, greenish-yellow MW, green LW.
Guerinite: FL/PH pale yellow SW/MW/LW
Gypsum: FL/PH white, pale yellow, pale blue SW/MW/LW
Genthelvite: FL green LW (best)/SW/MR
Hardystonite: FL violet to violet-blue SW/MW/LW
Hedyphane: FL orange or cream, MW
Hemimorphite: FL/PH pale yellow to white SW/MW/LW, also FL green SW/LW and blue SW.
Hexahydrite: FL/PH white SW/MW/LW
Hodgkinsonite: FL weak cherry red MW/LW
Humite: rarely FL pale yellow SW
Hyalophane: FL red SW
Hydrotalcite: FL cream LW
Hydroxyapophyllite: FL/PH weak white SW
Hydrozincite: FL blue SW w/pale yellow PH and, FL/PH pale yellow MW/LW
Johnbaumite: FL orange SW
Junitoite: FL pale yellow LW
Magnesiohornblende: FL greenish-blue SW
Manganaxinite: FL red SW, faint PH
Margarite: FL weak white ("gray") SW/MW/LW
Margarosanite: FL blue & red SW, red & rarely orange MW, weak red/orange LW
Mariatite: FL yellow SW and pink LW
Mcallisterite: FL cream SW
Meionite: FL pinkish-red or orange-yellow SW/MW, orange-yellow LW
Meta-ankoleite: FL green SW
Metalodevite: FL green SW
Microcline: FL blue or red SW
Minehillite: FL violet SW, bright violet-blue MW, pale yellow LW
Monohydrocalcite: FL green SW + white PH
Nasonite: FL pale yellow SW/MW
Newberyite: FL cream SW
Norbergite: FL yellow SW, less bright MW
Pargasite: FL greenish-blue SW
Pectolite: FL/PH orange SW/LW, less bright MW
Pharmacolite: FUPH white SW/MW/LW
Phlogopite-1M: FL yellow SW
Picropharmacolite: FL/PH white LW
Powellite: FL yellow SW/MW
Premninite: FL orangeish pink SW
Quartz: variable! FL yellow, pale orange, or green SW: FL pale orange, yellow MW.
Roeblingite: FL red SW with brief red-orange PH
Samfowlerite: FL weak red SW
Scheelite: FL orange-yellow SW/MW (blue SW)
Smithsonite: FL/PH pale yellow SW/MW/LW
Sphalerite: FL, PH orange, yellow-orange, orange-yellow, blue LW/MW, weaker SW
Spinel: FL cherry-red LW
Starkeyite: FL/PH white SW/MW/LW
Strontianite: FL violet SW
Talc: FL yellow SW/MW/LW
Thomsonite: FL pale yellow SW
Tilasite: FL yellow SW
Titanite: FL yellow-orange SW
Tremolite: FL blue SW (yellow LW)
Turneaureite: FL orange SW
Uranospinite: FL green SW
Uvite: FL orange-yellow SW
Willemite: FL/PH green SW (FL, PH yellow, greenish-yellow, orange, pale blue SW)
Wollastonite: FL/PH orange to yellow SW
Xonotlite: FL/PH violet SW/LW/LW
Zincite: FL yellow SW/MW/LW
Zircon: FL orange SW/MW
Znucalite: FL green SW/MW
MINERAL SPECIES FOUND AT FRANKLIN - STERLING HILL, NEW JERSEY

Mineral species list updated Fall 2003
Courtesy of the Franklin Mineral Museum Inc.

- Acanthite
- Actinolite
- Adamite
- Adelite
- Aegirine
- Akrochordite
- Albite
- Allactite
- Allanite-(Ce)
- Alleghanyite
- Almandine
- Analcime
- Anandite
- Anatase
- Andradite
- Anglesite
- Anhydrite
- Annabergite
- Anorthite
- Anorthoclase
- Antlerite
- Aragonite
- Arsenic
- Arseniosiderite
- Arsenopyrite
- Atacamite
- Augite
- Aurichalcite
- Aurorite
- Austinite
- Azurite
- Bakerite
- Bannisterite
- Barite
- Barium-pharmacosiderite
- Barylite
- Baryslite
- Bassanite
- Baumhauerite
- Bementite
- Berthierite
- Bianchite
- Biotite (series name)
- Birnessite
- Bornite
- Bostwickite
- Brandtite
- Breithauptite
- Brochantite
- Brookite
- Brucite
- Bullfenteinite
- Bustamite
- Cañhnite
- Calcite
- Canavesite
- Carrollite
- Caryopilite
- Celestine
- Celsian
- Cerussite
- Chabazite-Ca
- Chalcocite
- Chalcopyrite
- Chamosite
- Charlesite
- Chloritoid
- Chlorophoenicite
- Chondrodite
- Chrysocola
- Cianciulliite
- Clinochlore
- Clinohydraterite
- Clinoclase
- Clinohedrite
- Clinohumite
- Clinozoisite
- Clintonite
- Conichalcite
- Connellite
- Copper
- Corundum
- Covellite
- Cryptomelane
- Cummingtonite
- Cuprite
- Cuproptistibite
- Cuspidine
- Cyanotrichite
- Datolite
0 Descloizite
0 Devilline
0 Digenite
0 Diopside
0 Djurleite
0 Dolomite
0 Domykite
0 Dravite
0 Duftite
0 Dundasite
0 Dypingite
0 Edenite
0 Epidote
0 Epsomite
0 Erythrite
0 Esperite
0 Euchroite
0 Eveite
0 Fayalite
0 Feitknechtite
0 Ferrimolybdate
0 Ferristilpnomelane
0 Ferro-actinolite
0 Ferro-axinite
0 Ferrostilpnomelane
0 Flinkite
0 Fluckite
0 Fluoborate
0 Fluorapatite
0 Fluorapophyllite
0 Fluorite
0 Fluoroedenite
0 Forsterite
0 Fraipontite
0 Franklinfurnaceite
0 Franklinite
0 Franklinphilite
0 Friedelite
0 Gageite-itc
0 Gageite-2M
0 Gahnite
0 Galena
0 Ganomalite
0 Ganophyllite
0 Genthelvite
0 Gersdorffite
0 Gerstmannite
0 Glaucochorite
0 Glauco
donot
0 Goethite
0 Gold
0 Goldmanite
0 Graphite
0 Greenockite
0 Grossular
0 Grotime
0 Guerinite
0 Gypsum
0 Haidingerite
0 Halotrichite
0 Hancockite
0 Hardystonite
0 Hastingsite
0 Hauckite
0 Hausmannite
0 Hawleyite
0 Hedenbergite
0 Hedyphane
0 Hellandite-Y
0 Hematite
0 Hemimorphite
0 Hendricksonite-IM
0 Hercynite
0 Hetaerolite
0 Heulandite-Na
0 Hexahydrite
0 Hodgkinsonite
0 Holdenite
0 Huebnerite
0 Humite
0 Hyalophane
0 Hydrohetaerolite
0 Hydrotalcite
0 Hydroxyapophyllite
0 Hydrozincite
0 Illite
0 Ilmenite
0 Jacobsite
0 Jarosewichite
0 Jerrygibbsite
0 Johannsenite
0 Johnbaumite
0 Junitoite
0 Kaolinite
0 Kentrolite
0 Kittatinnyite
0 Koettigite

Scan courtesy of the Franklin-Ogdensburg Mineralogical Society, www.FOMSNJ.org
<table>
<thead>
<tr>
<th>Mineral Name</th>
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<tbody>
<tr>
<td>Kolicite</td>
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<tr>
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<td>Lead</td>
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<td>Loellingite</td>
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<td>Molybdenite-2H</td>
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<td>Monazite-(Ce)</td>
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<td>Monohydrocalcite</td>
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<td>Muscovite-IM</td>
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<td>Orthoserpierite</td>
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<td>Pennantite-ia</td>
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<td>Petedunnite</td>
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<td>Pharmacolite</td>
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<td>Pharmacosiderite</td>
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<td>Phlogopite-IM</td>
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<td>Retzian-(La)</td>
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<td>Rhodochrosite</td>
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<td>Rhodonite</td>
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<td>Richterite</td>
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<td>Rouaite</td>
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Minerals Unique to Franklin and Sterling Hill = 33 (bold)

Total Mineral Species found at Franklin and Sterling Hill = 360
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<thead>
<tr>
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<th>2004 DEALER LIST</th>
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<tbody>
<tr>
<td>1.</td>
<td>Nature's Window</td>
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<tr>
<td>2.</td>
<td>Yankee Mineral &amp; Gem Co.</td>
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<tr>
<td>3.</td>
<td>Pequa Rare Minerals</td>
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<tr>
<td>4.</td>
<td>Excalibur Mineral Co.</td>
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<td>5.</td>
<td>Quarry Enterprises</td>
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<td>6.</td>
<td>C.Carter Rich</td>
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<td>7.</td>
<td>Celinka</td>
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<td>8.</td>
<td>Fowlers Wirewrapping</td>
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<td>9.</td>
<td>The Mineral Cabinet</td>
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<tr>
<td>10.</td>
<td>Rocko Minerals &amp; Jewelry</td>
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<tr>
<td>11.</td>
<td>Eccentricities</td>
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<tr>
<td>12.</td>
<td>The Gemmery of Palm Coast</td>
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<td>13.</td>
<td>Amazon Imports</td>
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<td>14-15.</td>
<td>CCM Collectibles</td>
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<td>16.</td>
<td>Stone Trust</td>
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<td>17.</td>
<td>Aurora Mineral Corp</td>
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<td>18.</td>
<td>John Betts Fine Minerals</td>
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<td>19.</td>
<td>NONE</td>
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<td>20.</td>
<td>Willis' Earth Treasure</td>
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<td>21.</td>
<td>Mohawk Enterprises</td>
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<td>22-31</td>
<td>C.B.Ward Fluorescent Minerals</td>
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<td>23.</td>
<td>Unicorn Crafts</td>
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<td>Pure Energy of Crystals</td>
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<td>27.</td>
<td>Exotic Russian Minerals</td>
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<td>28.</td>
<td>Veronica Matthews Minerals</td>
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<td>29.</td>
<td>None</td>
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<td>30.</td>
<td>None</td>
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<tr>
<td>31.</td>
<td>Miner Shop</td>
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<td>32.</td>
<td>Miner Shop</td>
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<tr>
<td>33.</td>
<td>GSL Rocks</td>
</tr>
</tbody>
</table>
THE FRANKLIN MINERAL MUSEUM is proud to present it's newest adventure into E-BAY

Can't travel? Look for us on e-bay.

Visit us under Franklin, NJ and look for Seller's name Cianciulliite1949

We are also looking to purchase minerals for our gift shop sale area.
BOOTH 1
Nature's Window
PO Box 6049
Wyomissing, PA 19610
610-373-1253

BOOTH 2
Yankee Mineral & Gem Co.
22 East Hayes Road
East Hampton, CT 06424
yankeegems@aol.com

BOOTH 3
Pequa Rare Minerals
342 Forest Avenue
Massapequa, NY 11758
josef1@optonline.net
www.pequarareminerals.com

BOOTH 4
Excalibur Mineral Co.
1000 North Division Street
Peekskill, NY 10566
Tel- 914-739-1134
Fax-914-739-1257
www.excaliburmineral.com
BOOTH 5
Quarry Enterprises
PO Box 22
Northvale, NJ 07647
201-768-9364

BOOTH 6
C. Carter Rich
PO Box 69
Aldie, VA 20105
703-327-6373

BOOTH 7
Celinka
1522 Walnut Ave
Bohemia, NY 11716
631-567-3342

BOOTH 8
Fowlers Wirewrapping
PO Box 506
Marlboro, NH 03455
216-440-7687
BOOTH 9
The Minearl Cabinet
PO Box 814
New Providence, NJ 07974
908-464-7235

BOOTH 10
Rocko Minerals & Jewelry
438 Southside Spur
Margaretville, NY 12455
Tel- 845-586-3837
Fax- 845-586-1975
rocko@catskill.net

BOOTH 11
Eccentricities
Gemstones & Jewelry & Collectibles
518-797-5169
peggyeccentricities@msn.com

BOOTH 12
The Gemmery of Paint Coast
2 Wood Shaw Lane
Palm Coast, FL 32164
386-445-9030
BOOTH 13

Amazon Imports
PO Box 58
Williston Park, NY 11596
800-888-GEMS
amazonImpt@aol.com

BOOTH 14-15

CMM Collectibles
PO Box 160
Highspire, PA 17034

BOOTH 16

Stone Trust
86 Washburn Rd
Canton, CT 06018

BOOTH 17

Aurora Mineral Corp
679 S Ocean Ave
Freeport, NY 11520
Tel- 516-623-3800
Fax-516-623-0197
www.auroramineral.com

The Mineral Cabinet
BOOTH 18

John Betts Fine Minerals
215 West 98 street No 2 F
New York, NY 10025
212-678-1942
jhbnyc@aol.com

BOOTH 19

NONE

BOOTH 20

Willis' Earth Treasures
309 Prospect St
Stewartsville NJ 08886
908-859-0643

BOOTH 21

Mohawk Enterprises
1334 Old Trail Road
Johnstown, NY 12095
518-762-1338
val@superior.net
BOOTH 22 & 31

C.B. Ward Fluorescent Minerals
4071 NC 80
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3. Newsletter, 2 issues per year
4. Invitations to special or planned events
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7. Special week of members only holiday discount shopping, last week of November.
8. Discount on children’s birthday parties.

Collecting passes are not valid for special collecting events.

Membership cards or benefits will not be reissued, if lost or misplaced
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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 depends upon two long-term projects when they established an Endowment Fund and a Building Fund.

The Endowment Fund accepts money 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 money from estates, trusts and the general public for the use in expansion and maintenance of its buildings. Money received by the Building Fund is used for its stated purpose and not for general operations.

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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 permanent preservation of the mineral history of the Zinc mines of Franklin, New Jersey.

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