# **Mineralogy FAQs**

# With all the coal in the United States why aren't more diamonds found here?

Diamonds are pure carbon. Coal, however, is a complex mixture of large organic molecules consisting mainly of carbon, hydrogen, and oxygen with some nitrogen, sulfur and other elements. A coal bed forms from a thick layer of plant matter which has been buried, compacted, and turned into a rock. In Nature, diamonds form in the Earth's mantle under very high pressures [54,000 times atmospheric pressure]. In order to be turned into diamond, coal would have to be pushed down to depths of at least 100 miles. None of our coals were ever buried anywhere that deep! Even the *anthracite*, or hard coal, from eastern Pennsylvania was never buried any deeper than about three to six miles. So don't go looking in the coal fields for diamonds.

Diamonds are as interesting to the mineralogist as they are to the jeweler. They are important to earth scientists because they carry information about the nature of the Earth's mantle where they formed. [The mantle being that part of the Earth's structure which lies between the Earth's crust and its core under most continents, it starts about 20 miles down and continues to 1800 miles in depth.] The most common way diamonds can be carried out of the mantle is during a volcanic eruption of a very unusual igneous rock called kimberlite. Kimberlite is typically a gray or bluish rock with large crystals of a dark brown mica, the mineral phlogopite, visible in it. Kimberlites may also contain small crystals of bright green diopside, blood-red pyrope garnets, and glossy black ilmenite, as well as other high pressure minerals, along with fragments of the Earth's mantle in the form of xenoliths (i.e., "strange rocks"). Diamonds are also found in another unusual mantle-derived igneous rock called *lamproite*. They also occur in meteorites and in rocks which have been shocked by the impact of large meteorites, too, but not as large gem-grade specimens.

Diamonds are a high-pressure form of pure carbon. Temperature is also important: typically, diamonds form only in those parts of the mantle where the pressures are greater than 54,000 atmospheres and the temperatures are less than about 1300°C (2370°F). *Graphite*, which is also pure carbon, is the

truly stable form of carbon at the surface of the Earth. Because diamonds form in the mantle, the fact that we find them on the surface implies that rocks can escape from the Earth's mantle to its surface. The magma which solidifies to form kimberlite must move rapidly from the Earth's mantle to the surface, and cool quickly, if diamonds are to avoid being converted into graphite. It has been calculated that a kimberlite eruption may occur at twice the speed of sound! Clearly you wouldn't want to be nearby when one blew, but there have been no known kimberlite eruptions during historic times.

One of the most interesting, if not also most disappointing, *pseudomorphs* is that of graphite after diamond. For instance, small octahedrons of graphite have been reported in rocks in North Africa. Because graphite is hexagonal and diamond is isometric, these are thought to have been diamonds, formed at great depths, but converted into graphite as they were carried upward slowly by the process of *obduction*.

Interestingly enough, kimberlites are more common than many might suspect. Kimberlites and related rocks have been found in Arkansas, New York, Kentucky, Wyoming, Colorado, and elsewhere. They even occur at three locations in Pennsylvania. Two of these kimberlites were encountered in coal mines in Indiana County, Pennsylvania, and have not yet been detected on the surface. But the third kimberlite can be seen on the surface near Masontown in Fayette and Greene Counties. These kimberlites have been determined by Dr. Bikerman of the University of Pittsburgh, to have formed about 147 million years during the Late Cretaceous Period. While, in theory, any kimberlite could carry diamonds, only one kimberlite in a hundred is diamondiferous. No diamonds have yet been found in any kimberlite in Pennsylvania, but we keep looking!

By Andrew A. Sicree, FM National Newsletter Editor

## **Reports**

FRIENDS OF MINERALOGY NATIONAL BOARD OF DIRECTOR'S MEETING MINUTES - INN SUITES HOTEL, TUCSON, ARIZONA, 15 February 2002

**1. Call to Order** Meeting called to order at 8 a.m. Agenda for the meeting distributed to all attendees.

- **2. Election Results** 35 mail in ballots and 45 email ballots were tallied. The following were elected to the Board of Directors: Tom Wilson (North Carolina), Ray Grant (Arizona), Sharleen Harvey (Oregon), Nelson Shaffer (Indiana) and Jim McGlasson (Arizona)
- **3. Board Officers** (2 year terms) The following nominations for Board Officers were presented to the entire Board of Directors: Virgil Lueth (secretary), Treasurer (open), and Andrew Sicree (Newsletter Editor). The board discussed the anticipated procedures for newsletter and membership record keeping. Dues will first go to the treasurer who will notify the newsletter editor who will then notify the secretary of paid members. The secretary is no longer responsible for the newsletter. A motion to approve the slate of board officers was passed.
- **4. Minutes of the Last Meeting** A motion to approve the minutes of the last meeting, as presented in the most recent newsletter, was approved.
- **5. Treasurer's Report and Auditor's Report** Jack Nieberger provided a handout of the Treasurer's report. The board discussed recent declines in membership and the additional cost of American Geological Institute (AGI) affiliation dues. A motion to accept the Treasurer's report was passed. An auditor's report by Michael Kokinos was part of the treasurer's report.
- **6. Vice President's Report** Bill Dameron presented his report on the selection of the best articles in both the Mineralogical Record and Rocks and Minerals. In addition, the large participation to the photo contest was noted. A committee was named to judge the best educational exhibits at the Tucson Show by individuals and museums.
- **7. Secretary's Report** no report was provided since the position was vacant prior to the meeting.
- **8. President's Report** Susan Eriksson postponed her report until discussion of Strategic Goals (below).
- **9. Committee Reports American Geological Institute**: Nelson Shaffer reported that the FM provided requisite reports to the AGI. Nelson noted that for a small investment, the AGI provides many programs that apply to the mission of the FM. He made a plea to the board that members participate in the committees available to the FM within the AGI.

**Specimen Preservation**: Wendell Wilson distributed a draft letter for specimen recovery at active mines. The draft would be modified after board feedback. A discussion of format and content was followed by the appointment of a committee (W. Wilson, N. Shaffer, A. Sicree, and B. Dameron) to craft a published letter and form letter for later approval in March or April. Andrew Sicree noted a plan to establish a MSHA Training Program in mine safety titled, "Mineral Collector's Safety Course" to provide safety training to amateurs.

**Web Report**: Mike Howard took over the operation of the committee following the resignation of Chuck Miller. Much of the report centered on the content of the website. Darcy Howard is the new webmaster; Darcy is a professional website designer. She can be contacted at: <dhoward954@aol.com>.

From the Editor: Welcome to the Friends of Mineralogy Newsletter. Things are a little rough and a little slow as I'm trying to come up to speed as Newsletter Editor, but with your patience and your help, we'll produce a newsletter which is both interesting and informative. As I have done in this issue, I'd like to start off each newsletter with a short article on some aspect of mineralogy. To that end, I'd like to encourage everyone to submit one- to two-page articles for consideration for publication in the FM Newsletter. Please send your submissions directly to Andrew Sicree, Penn State Mineral Museum, 112 Steidle Bldg., University Park, PA 16802; (814) 865-6427 or email <sicree@geosc.psu.edu>. This newsletter will be posted on FM National's website: http://www.friendsofmineralogy.org/.

<u>Dues Notice:</u> Dues are past due as of April 1. If you haven't paid your dues yet, please do so now. Please fill out and send in the form in this newsletter along with your dues. Former members of FM are strongly encouraged to re-join.

## National Minutes (cont'd)

A total rebuilding of the site is anticipated. A letter of D. Howard was read to the Board. She requested that the FM authorize her to pay fees associated with establishing the site. A motion to make such an authorization was passed. The current committee consists of R. Bounds, S. Simmons, and M. Howard.

10. Review of Strategic Goals Susan Eriksson passed out a portion of the

newsletter that listed the strategic goals for FM. These goals and their working groups were reviewed in turn:

- Group 1: Provide permanent reference "home for FM through a web page. The new website design and implementation is addressing this goal.
- Group 2: Explore potential cooperative projects with other mineralogical associations. Affiliation with AGI and an upcoming project with the Society of Mineral Museum Professionals was discussed.
- Group 3: Develop a means to have a FM case at as many mineral shows as possible. This goal was dropped for logistical reasons.
- Group 4: Compile a list of all state and Canadian provincial mineral indexes already sponsored by FM. This remains an important goal for the Board. Recent publications in Rocks and Minerals and support for the project by local chapters indicate the success of this project.
- Group 5: Werner Lieber Photo Contest to promote the hobby to the public. A large number of submittals were provided to the contest this year. The lack of a committee hindered the dissemination of the photos to local groups. A committee consisting of R. Aumente, K. Wenrich, B. Reynolds, S. Simmons, and S. Harvey was appointed to work on transportation and use issues.
- **Group 6: Centralization of Membership Records**. The new procedures, discussed earlier in the meeting, should address this issue. Mike Howard will forward the membership list to the new secretary. V. Lueth, A. Sicree, S. Eriksson, and Chapter presidents will work to compile and maintain a new listing.
- **Group 7: Publicity**: A motion to appropriate money to purchase a permanent traveling station to be used at meetings was approved. The station will be manned by FM members, similar to other stations from other organizations present at the Tucson show. At this station, FM info. would be available to the public.
- 11. Old Business Newsletter discussed earlier in the meeting.

**Insurance for Board Members**: Two companies had been contacted. The need for such insurance is not significant. A motion to drop the issue was passed.

**FM page** in mineralogical journals discussed. Tom Wilson placed in charge of studying this issue.

Web Page already discussed.

**2002 FM Symposium** Robert Cook is in charge of next year's symposium that will begin at 10 a.m. Saturday.

**Nominating Committee** V. Lueth, B. Dameron, and S. Harvey were named to the nominating committee. A motion to approve their appointments

passed.

**Chapter Reports** Postponed until the annual business meeting, Saturday afternoon.

**Proposed Budget** The budget submitted in the Treasurer's Report was amended to include an expense of \$750 for website development and a one-time expense of \$2,000 for an information station. The amended budget was approved.

**12. New Business**: **Membership** Problems with dues collection, communication, and database maintenance issues were discussed. Changes to the procedures and a new editor for the newsletter should rectify many of the current problems.

**Symposium Costs** The cost of renting A-V equipment is increasing, especially with respect to computer generated and animated presentations. The need to appoint a liaison between FM and other symposium sponsors to coordinate needs and procedures was discussed.

**Affiliated Societies** The need to affiliate other mineral clubs and societies into FM rather than establish formal chapters was discussed.

**Special Symposium** A special symposium titled "The State of Mineralogy" was proposed for an upcoming symposium in conjunction with the Mineralogical Society of America and Society of Mineral Museum Professionals was discussed. A motion to approve the concept was passed.

13. Announcements: The meeting was adjourned at 10:30 a.m.

Prepared by Virgil Leuth, FM National Secretary

## Mississippi Valley Chapter Report to National Board of Directors, Feb. 15, '02

The Mississippi Valley Chapter of Friends of Mineralogy accomplished the following during 2001:

- \* Increased membership to between 20 and 30. 2002 dues have just been submitted for 20 member and additional are expected in the near future as members have been recently reminded to pay dues.
- \* Ended 2001 with a positive budget balance.
- \* Progressed on the mineral locality index project. Locality index for Iowa nears publication, and a locality index for Kansas is beginning. Members and

others are being solicited for assistance with this project.

- \* Committed to a long-term project to assist the Missouri Mines State Historic Site at Park Hills, Missouri, in outfitting a conference room / reference library.
- \* Held the 2nd Annual Mississippi Valley Mineralogy Symposium, "The Mineralogy of Magnet Cove." The Symposium included presentations by Mike Howard, Art Smith, and Henry de Linde. Field trips included Magnet Cove Titanium Corporation Prospect, Cove Creek Bridge, the Pseudoleucite Locality, Mid-States Quarry, and Old York Farm Road Rutile Location at Magnet Cove and the Granite Mountain Complex at Little Rock, Arkansas. Eighteen persons attended.
- \* Tentative topic for 2002 Symposium is "Mineralogy of the IL-KY Fluorite District", to be in late October.
- \* The Chapter is still waiting on the Internal Revenue Service to determine tax exempt status. At the last contact, the IRS representative indicated the determination would be "when they got around to it."
- \* The next chapter meeting is 9:00 am, Saturday, March 9, at the Greater Kansas City Association of Gem and Mineral Clubs Show at KCI Expo Center, Kansas City, Missouri. Other meetings this year will be held at the Missouri Mines Swap in June and St. Louis Gem and Mineral Show in August.

Submitted by Mark Sherwood, FM-MV Chapter President.

Mississippi Valley Chapter November 2001 Symposium Synopsis: "Geology, Mineralogy and Mineral Collecting in the Eastern Ouachita Mountains of Central Arkansas with especial reference to the Magnet Cove, Potash Sulfur Springs and Granite Mountain Alkaline Complexes"

The 2nd Annual Mississippi Valley Chapter Friends of Mineralogy Symposium and Field Work was attended by 17 members. Lead by J. Michael Howard, the Seminar was held in and around the Hot Springs, Arkansas, area. Mark Sherwood presented Mike a plaque of appreciation for all his hard work, time and energy. The event was interesting and well-organized. Mike also created the field guide books and presented the opening introduction and program. Thank you also to Mr. Art Smith of Houston, Texas who was the keynote speaker. The Chapter members also

thank Mr. Henry DeLinde for his presentation on the history of Diamond Jo Reynolds and the Hot Springs Railroad. Special thanks to Mrs. DeLinde for hosting our evening dinner at their home, and to Mr. Meredith York for assistance in leading the field trips.

The Seminar started on Friday morning with a breakfast meeting and opening remarks and welcome by President Mark Sherwood. Mike Howard spoke of the itinerary for the weekend and gave a slide show presentation of the mineralogy of Magnet Cove. The rest of the day on Friday and Saturday were spent on various filed trips. Saturday evening was the BBQ dinner, a short business meeting and featured speaker Art Smith and Henry DeLinde.

Some of the sites that were scouted for mineralogy included the Titanium Corporation of America pit (rutile paramorphs after brookite, pyrite crystals), Martin Marietta Jones Mill Quarry (a.k.a. Highway 51 quarry), Fiddlers Ridge Quartz mine (quartz), and the Granite Mountain area quarries (stilbite, chabazite) in the Little Rock area. The Seminar wrapped up on Sunday after the trip to the Granite Mountain Quarry in Little Rock and many members headed home around noon.

**Mississippi Valley Chapter Meeting:** The next meeting of FM-MV will be Sat., June 15, 2002 at 9 am at the Missouri Mining Museum in Park Hills, MO. Questions? Contact Carol Fergason at 816-478-6418.

**Ralph Heitman.** The Mississippi Valley Chapter of the Friends of Mineralogy is saddened to report the death of a long time mineral enthusiast Ralph Heitman of the St. Louis area. Our Chapter will miss his attendance to our meetings and we extend our condolences to his wife Rose and the family.

Submitted by Carol Fergason, FM-MV Chapter Secretary

#### Pacific Northwest Chapter Report to National Board of Directors, Feb. 15, '02

In June, we held a membership meeting at the Pacific Mineral Meeting in Vancouver BC. Before and after the meeting members were free to roam throughout the museum and look at the displays. The museum is within a city block of the cruise ship terminal and is recommended to anyone in the area. In August, the 11th annual Washington Pass cleanup along the North Cascades Highway was canceled due to forest fires. The campground we

normally use was in full use as a staging area for the fire fighters. In September, we held our 27th Annual Symposium, "Rainbow of Minerals". The meeting was a joint meeting with the Northwest Fluorescent Society. Both organizations supplied display cases and shared speakers. The formal meetings, held in conjunction with the symposium, were staggered so that members could visit the other organizations' meeting. Symposium speakers included Jesse Fisher, Don Newsome, Charleen Harvey, and Lanny Ream. The Northwest Micromounters also had a sharing table and microscopes setup. Our display cases and mineral dealers were arranged to be open to the public.

Pacific Northwest Chapter plans for 2002: Throughout the year we will be attempting to have a more visible promotion of FM outside the membership in related organizations (e.g. local shows, etc.).

**July 18-21** is the combined AFMS/NFMS annual show and meeting in Port Townsend, WA. We plan to supply a group of mineral display cases at the show and hold a meeting July 21 at the show. This will provide an opportunity for sharing information between the organizations with similar interests.

**August 10-11** is our planned resumption of annual clean-ups along the North Cascades Highway. This event also provides a field collecting opportunity for the rare minerals found in the area.

**September 27-29** is the 28th Annual Symposium. The theme is "Inclusions - The inside story". Speakers will be announced in the near future. We also hope to involve another organization in a joint meeting arrangement as part of our on-going outreach.

#### Gemological Institute of America to Host Memorial for John Sinkankas

It is with sadness that we note that John Sinkankas, a famous and long-time Friend of Mineralogy, noted mineralogist, gem cutter, gemologist, and prolific author died on May 17, 2002. Many who visited the "old" Smithsonian exhibit will remember seeing the large faceted stone display (on the left side of the room which had the vaults containing the Hope Diamond and other valuable stones). Sinkankas cut those stones for the exhibit. A man of many talents who truly "wrote the book" on lapidary and mineralogical matters, Sinkankas will truly be missed. The Gemological Institute of America will host a gathering to honor John Sinkankas on June 29th from 4 to 7 PM. At this

gathering, attendees are invited to share stories about Sinkankas. Please share this information with your colleagues. If you are able to attend, please e-mail Dona Dirlam at <ddirlam@gia.edu>. If you are not able to attend, but would like to send a story or comment you may e-mail them to Dona Dirlam. The Sinkankas family has asked that in lieu of flowers, any memorial donations go to the John Sinkankas Book Fund for Liddicoat Gemological Library and Information Center at the GIA. These can be directed to the attention of Dona Dirlam, Director. The address of the GIA is 5345 Armada Drive, Carlsbad, CA 92008.

Reported by Dona Dirlam < ddirlam @gia.edu>

### Interesting News from the Fallbrook Gem and Mineral Society

The Fallbrook Gem and Mineral Society in California purchased an old 1940's-era building of 4000 sq. ft. for a museum and meeting place since we shot up to 85 members from 60. Plans are to transfer our current museum to this building as soon as we can pay off some of the debt. We are in the Pala / Mesa Grande mining area and are working on building a very good mineral collection with specimens from area mines.

We just put in an extremely good fluorescent display under the guidance of Greg Anderson. We will start showing this off in mid-April. We are looking for grants and for people who want to help us get this new museum up and going with donations of money. We have no government connection and are our own boss with a high probability of success being in tourmaline country. The Cryo Genie just produced a world class tourmaline pocket so there is room for us to purchase new material coming from the mines in San Diego County and we would welcome donations of minerals from the mines in our area.

Submitted by Garth Bricker < gbricker@znet.com>

# **Symposia**

Mid-West Chapter Symposium: June 20, 2002

The 5th Mid-West Mineral Symposium will be held at the Dept, of Geological Sciences, Indiana Univ., Bloomington, IN, on June 20, 2002. This is just prior to the Lawrence Co. Mineral Swap in Bloomington.

#### Talks and tours include:

9:00 - 9:20 AM	Nelson Shaffer - Indiana Minerals Education
9:20 - 9:40 AM	Alan Goldstein - Minerals in Kentucky
9:40 - 10:00 AM	John Medici - The Munich (Germany) Show
10:00 - 10:20 AM	Dan Behnke - Copper Country (MI) Minerals
10:20 - 10:40 AM	Jay Lininger - New Harmony - Beginnings of Mineral Study in the Midwest
10:40 - 11:00 AM	Garry Getz - Mineral Collecting - A Miner's View
11:00 - 11:30 AM	John Rakovan - How and Why Minerals from Beautifully Faceted Crystals
11:30 - 12:00 AM	John C. Huffman - Determining Crystal Structures
1:00 - 2:00 PM	Tour of Indiana University Molecular Structure Center (IUMSC) by Dr. Huffman
2:00 - ? PM	Optional tour - Department of Geological Sciences Collections following

Lunch will be 121 pm in the Tudor Room of the Indiana Memorial Union if you choose and costs \$10.00 in addition to the registration fee. A magnificent reproduction of a European Great Hall, the Tudor Room is known for its excellent fare. Fast food is also available from the Commons, also in the Union Bldg.

# Registration for 2002 Mid-West Chapter Friends of Mineralogy Symposium

Name:	
Address:	
Phone:	E-mail:

Please send registration fee (Payable to "Friends of Mineralogy Symposium") of \$10 for Symposium, \$10 for Lunch to: Nelson R. Shaffer, Indiana Geo. Survey, 611 North Walnut Grove, Bloomington, IN 47405.

#### Colorado Chapter Symposium: September 7-10, 2002

"Gemstone Deposits of Colorado and the Rocky Mountain Region" is the topic of the upcoming symposium to be held at Colorado School of Mines, Golden, Colorado, September 7-10, 2002, sponsored by Friends of Mineralogy, Colorado Chapter. To receive further information about symposium registration and the details about the program and field trips, or to offer to present a paper at the symposium, please contact any of the following: Paul Bartos, CO School of Mines, 303-273-3823, pbartos@mines.edu; Dan Kile, U.S. Geo. Surv., 303-541-3029, <<pre>dekile@usgs.gov; Jack Murphy, Denver Museum, 303-370-6445, jmurphy@dmns.org; Pete Modreski, U.S. Geo. Surv., 303-236-5639, pmodreski@usgs.gov; or write to Colorado Chapter - FM, P.O. Box 5276, Golden CO 80401-5276. See enclosed flyer for more details.

#### Pacific Northwest Chapter Symposium: September 27-29, 2002

The 28th Annual Pacific Northwest Friends of Mineralogy Symposium will be held at the Red Lion Hotel in Kelso/Longview, Washington September 28-29, 2002. Featured topic this year is "The Inside Story - Inclusions", with guest speakers John I. Koivula and John S. White. Main floor dealers to include Harvey Gordon Minerals, Lehigh Minerals, The Aesthetics Underground, and Oxcart Minerals. For Symposium fliers, please contact Jade Wieting <a href="mailto:pdxpounder@hotmail.com">pdxpounder@hotmail.com</a>. For additional information about the Chapter, contact Sharleen Harvey at <a href="mailto:bill-sharleenharvey@att.net">bill-sharleenharvey@att.net</a>. Submitted by Jim Etzwiler, President.

#### Pennsylvania Chapter Symposium: November 1-3, 2002

The Pennsylvania Chapter of FM will hold its annual Mineral Symposium on the weekend of November 1-3, 2002. Symposium theme will be pegmatites. Speakers are now being arranged as well as a field trip site. Other symposium events will include a few dealers, give away table, and an auction to benefit the Chapter Student Research Grant Fund. For more information

contact George Rambo at 302-798-4163 or write to 17 N. Avon Drive, Claymont, DE 19703.

## **Membership**

# Friends of Mineralogy Application for Membership (or Renewal) / Member Data Sheet

Last Name:		First Name:	
Street Address:			
City:		State/P	rovince:
Country:	Zip/Postal Code:		
Telephone:(C	(Home) Office)		
FAX:	(Home)	(Offi	ce)
E-mail address: Chapter Affiliation Desired	d:		
Signature:		_ Date	

Friends of Mineralogy, Inc., is composed of members of 6 local chapters, plus national members not affiliated with a chapter. **Prospective national members should send their application and \$10.00/year dues to Jim Hurlbut, 2240 S. Adams St., Denver, CO 80210-4912. Phone 303-757-0283**. Prospective members of a chapter may submit form directly to the chapter contacts (Colorado, Great Basin, Midwest, Pacific Northwest,

Pennsylvania, or Southern California), or to Jim Hurlbut who will forward it to the appropriate chapter. (You will be billed for your chapter dues, since they vary with individual chapters.)

Please Note: Dues are past due as of April 1. If you haven't paid your dues yet, please do so now. Please fill out and send in this form along with your dues. Former members of FM are strongly encouraged to rejoin.

#### **National Officers**

<u>President:</u> Susan Eriksson, 1013 Draper Rd., Blacksburg, VA 24060, <a href="mailto:serikssn@vt.edu">serikssn@vt.edu</a>.

<u>Vice President:</u> Bill Dameron, 1609 NW 79th Circle, Vancouver, WA 98665, <a href="mailto:salaritebill@aol.com">baritebill@aol.com</a>.

<u>Secretary:</u> Virgil Lueth, New Mexico Tech, 801 Leroy Place, Socorro, NM 87801 < vleuth@nmt.edu >.

<u>Treasurer:</u> Jim Hurlbut, 2240 South Adams St., Denver, CO 80210-4912. Phone (303) 757-0283.

<u>Editor:</u> A.A. Sicree, 112 Steidle Bldg, University Park, PA 16802, 814-865-6427 <<u>sicree@geosc.psu.edu</u>>

<u>Web Site Committee Chair:</u> Mike Howard / Darcy Howard: <dhoward954@aol.com>.

FM Web Site Address: <a href="http://www.friendsofmineralogy.org/">http://www.friendsofmineralogy.org/</a>.

## **Chapter Contacts**

<u>Colorado Chapter:</u> President, Pete Modreski, 3555 Miller St., Wheat Ridge, CO 80033, (303) 425-9549, <<u>pmodreski@usgs.gov</u>>; V-P, Eunice York; Treasurer, Jim Hurlbut; Secretary, Ray Berry.

<u>Midwest Chapter:</u> Nelson Shaffer, 530 Cabot Ct., Bloomington, IN 47408, (812) 339-6623; <<u>shaffern@indiana.edu</u>>;

website <a href="http://www.indiana.edu/~minerals/index.htm">http://www.indiana.edu/~minerals/index.htm</a>

Pacific Northwest Chapter: Sharleen Harvey, 2309 SW 1st Ave. #2142, Portland OR 97201-5080, (503) 248-4194, <a href="https://example.com/bill-northwest">bill-northwest Chapter:</a>

<u>sharleenharvey@worldnet.att.net</u>>; Jim Etzwiler, 3935 Interlake Ave. N., Seattle, WA 98103-8131, (206) 633-1512, <<u>Kd7bat@arrl.net</u>>.

<u>Pennsylvania Chapter:</u> Roland Bounds, 315 Stamford Dr., Newark, DE 19711-2723, (302) 731-8407, <<u>25628@udel.edu</u>>;

website: http://www.geocities.com/sajas.geo/FM/index.htm

<u>Southern California Chapter:</u> Jack Nieberger, 25231 Pico Vista Way, Moreno Valley, CA 92557, (909) 242-1777; Bob Reynolds, 220 South Buena Vista St., Redlands, CA 92373-5129, (909) 798-8570, <Jreynolds@empirenet.com>;

website: http://www.mineralsocal.org/scfm/welcome.htm.

<u>Mississippi Valley Chapter:</u> Mark Sherwood, P. O. Box 436, Oak Grove, MO 64075-0436, (816) 690-8226, <<u>msherwood@swbell.net</u>>; Ted and Carol Fergason, 3912 Queen Ridge, Independence, MO 64055 (816) 478-6418, <<u>Hbkcphc@aol.com</u>> or <<u>Tferg62953@aol.com</u>>.

**Southeast Chapter:** David Babulski, 2677 Colony Circle, Snellsville, GA 30078, (770) 985-1772, <dbabulsk@lanier.com>; Rockbytes

online: http://members.cox.net/fomse01

<u>Tucson Society:</u> Peter Megaw < <u>Tgmsgb@azstarnet.com</u>>.

Friends of Mineralogy, Inc., is affiliated with *The Mineralogical Record* Magazine, The Mineralogical Society of America, and the American Geological Institute.

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