

Friends of Mineralogy

A Quarterly Newsletter

VOLUME 30, ISSUE 2

APRIL-JUNE, 2000

President's Message

Wow! The year is really flying by. I hope you have had time to begin to accomplish all the items set out at the beginning of the year.

It was with great expectation that I looked in the May-June 2000 Mineralogical Record for the Friends of Mineralogy page (on p. 287). All the updated information concerning FM Officers, Chapter Contacts, and the 2001 Symposium was there. My thanks to Dr. Wendell Wilson for his assistance in helping me prepare the updates. Please look it over yourself and if you note any needed changes (for example: Chapter information or contact information), contact me immediately so I can get it corrected.

I have managed to teach several classes in geology and mineralogy to my local grade school and led a field trip to one of Arkansas' fee-pay quartz mines for the school's entire 4th grade. I particularly enjoyed that activity as the enthusiasm of first time collecting was unbounded!

I also talked to a local Boy Scout troop to assist them in obtaining their geology merit badges. Part of the merit badge activity requires that the Scouts visit a local mine or quarry. We chose Arkansas' Crater of Diamonds State Park since I am very familiar with the site. The one thing we did not anticipate was 13 hours of rain before we entered the collecting area. Soil weathered from lamproite is as hard as a rock when dry and a wonderful sticky gray green gumbo when wet! The Scouts thoroughly enjoyed the entire set of activities I laid out for them, although no one in our group recovered a diamond.

So, I hope you have your plans and activities, pertaining to both FM projects and any personal goals you may have set, well on the way.

Both Chuck Miller and I would appreciate it if every Chapter will put him on their mailing list so he will receive the Chapter Newsletters. See the Masthead on the back of the National News for Chuck's mailing address. This will assist Chuck in keeping everyone up-to-date on Chapter activities.

Have a safe summer!

Mike Howard, President

THE GEORGIA MINERAL HERITAGE PROJECT

By David Babulski

The Georgia Mineral Heritage Project is an ambitious attempt at preserving knowledge of and representative specimens from mineral occurrences in the state of Georgia. Daily each of us witnesses the destruction of our mineral heritage. With each new strip mall, each new housing development, our environment is changed. As the hills are bulldozed away and as the ground is built upon and paved over, a page of our mineral history is lost to us. Why is this mineral heritage important to you and to future generations? Think of the important role that minerals have played in the history of the state. Why do specific mineral species occur where they do and what do they say about the surrounding geology? Just like you, The Georgia Mineral Heritage Project seeks to answer these and similar questions. This project seeks to document our mineral heritage, not just for one mineral

SPECIAL ITEMS OF

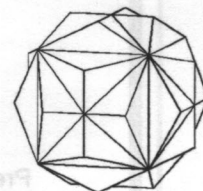
INTEREST:

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DIRECTORY UPDATE

The new FM directory is in its final stages. It is critical that you check that your DUES are current and your address is correct. Especially the email address. Chapter presidents! Get your membership information to Roland Bounds and Regina Aumente.

Pyrite 'Iron Cross' drawn by the new SHAPE software



species or for a few collecting sites, but for as many minerals and mineral occurrences as we can. Given the pace of development in Georgia, we believe we must move quickly before this heritage is lost forever. If you would like to join us in this effort or if you have ideas or suggestions concerning the project, please contact me at the address given below:

Dr. David Babulski
2677 Colony Circle
Snellville, Georgia 30078
dbabulsk@lanier.com

David is a member of the Southeast Chapter of FM. -ed.

DONUTS AND COFFEE IN DENVER

"Meet fellow FM members at a Saturday morning social during the Denver Gem and Mineral Show, September 16, 2000. Donuts, coffee, and other beverages will be provided at 11:00 am in the Meeting Room at the Show.

Check the show program for the exact location. This year's show feature is "Minerals of the San Juan Mountains." Visit www.denvermineralshow.com for more information on dealers and special exhibits.

Check Out these Web Sites:

The FM Web Site!

<http://www.indiana.edu/~minerals/fm.html>

A New Geological Search Engine!

<http://www.binary.net/treasure>

The American Geological Institute!

<http://www.agiweb.org/> or: www.agiweb.org/gapac

The Forest Service

<http://www.fs.fed.us/news/roads>

SHAPE software

<http://www.shapesoftware.com>

Pennsylvania Chapter:

http://www.geocities.com/fm_pa/

The 22nd FM-TGMS-MSA Mineralogical Symposium

THE MINERALS OF RUSSIA

In Conjunction with the Tucson Gem and Mineral Show

Saturday, February 10, 2001

Call For Papers

The twenty-second annual Mineralogical Symposium, will be held on February 10, 2001 at the Tucson Gem and Mineral Show. It is cosponsored by Friends of Mineralogy, the Tucson Gem and Mineral Society, and the Mineralogical Society of America. The topic of the Symposium is Minerals of Russia - the Tucson Show's theme for 2001. Papers on descriptive mineralogy, paragenesis, classic and new locations and related subjects about the minerals of Russia are welcome. An audience of amateur and professional mineralogists and geologists is expected.

Anyone wanting to present a paper should submit a 200 to 300 word abstract to:

Raymond W. Grant, Show Chairman

Mesa Community College

1833 W. Southern Ave.

Mesa, AZ 85202

(480)461-7008 (phone)

(480)461-7234 (fax)

rwgrant@mail.mc.maricopa.edu (e-mail).

Presentations will be twenty minutes, followed by a period for questions. Abstracts must be submitted by September 10, 2000. The abstracts will be published in the January/February 2001 Issue of the Mineralogical Record.

Crystal Drawing – An Update

By Credo Schwab

General Comments

Some time ago, we reviewed crystal-drawing programs in these pages. Mike Howard suggested it may be time for a brief update on the SHAPE© program. Particularly with the new (1999) Version 6, this program is the standard by which others will be measured.

SHAPE has been on the market since 1987. It is in use by universities, research laboratories and by many individuals throughout the world. The current version, 6.0 is a sophisticated program and in this author's opinion, a marvel of computer programming. It behaves superbly in Windows 98.

For Current SHAPE Users

The current version (6.0) is much different from the previous versions (5.0 & older). In addition, if there are any out there still using the old DOS versions, the new one is light years different. One could produce good crystal drawings with the DOS versions, but sometimes it was with a little agony. With Version 6 for Windows and a little practice, you can draw crystals with complicated morphology in a very short time. The main screen now has calculation options and symmetry display on a left bar and forms display and sizing on a right bar display. In previous versions, it was necessary to go back to the forms entry screen to see the list and make adjustments. This was tedious if you had a number of forms and you were trying to "tweak" the central distances to adjust sizes or get one to display that was not showing. Now, the list is in front of you and you can "click it open" and adjust parameters or change form colors or letter labels.

The program is great for making a quick drawing when writing an article of a newsletter. I work in MS Publisher for newsletters and similar formatted documents. I can import text from the word processor, then insert a picture frame, open SHAPE, draw a crystal and export it as a Windows metafile to the clipboard and paste it into the Publisher document. Job done, no extra metafiles lying around on my hard disk!

For Potential New Users

For those of you that have wished to try crystal drawing — now it is easier than ever. If you

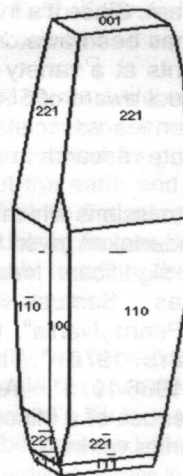
know a little basic crystallography, you can perform the basic operations in SHAPE and learn at the same time. You enter a title and select a crystal system. Then you enter the unit cell parameters available in all sorts of books these days. Then you pick crystal symmetry and with Version 6, they are divided into crystal systems to make it easy for you. If you are sometimes dumb like me, and pick the wrong one, you can go back, change it and recalculate with a click.

Once you have the basics, you can input the forms, central distances and select colors for forms and letters for the form if you like. Then the crystal is a calculation click away. Filling forms with colors, displaying indices or letters are options. Printing is instantaneous on my laser jet and fast on my color ink jet.

There are other things you can do to turn the program into a learning tool. Stereo pairs, 3D symmetry, and rotation and axes display. The basic program costs \$195 and that is the one I would recommend for beginners. I suggest that you also buy one of the Groth/Krantz Libraries of crystal drawings. The first has 700 crystals with their SHAPE input parameters. It costs an additional \$100, but it gives you a good starting point to input the data and have a few drawings until you get the "feel" of the program.

More information and some downloadable demos and drawings are on the Shape Software home page at <http://www.shapesoftware.com>

INDERBORITE
Crystal drawn
with the new
SHAPE software.



SPECIAL FEATURE: HIGHLIGHTING THE FM CHAPTERS

The strength of FM lies in the growth and vitality of its chapters. This is the first of a series of articles, each written by a chapter representative, providing a deeper insight into the history and activities of the regional FM organizations.

THE PENNSYLVANIA CHAPTER

By Roland Bounds

The Pennsylvania Chapter of the Friends of Mineralogy was one of the first local Chapters within the organization. At times it was known as the FM Region III Chapter but has since returned to its original name. The PA Chapter typically has about 90 members of which maybe 35 are active and regularly attend Chapter functions.

The PA Chapter has regularly hosted an annual Mineralogical Symposium in early November. Themes for this symposium have included "Classic Mineral Localities", "Mineralogy of Elements", "Mineralogy of Zeolites", "Pennsylvania Mineralogy", and this year's "Tribute to Arthur Montgomery", scheduled for November 3 -5, 2000.

Included as part of the Chapter symposium each year is an auction used to benefit the Student Research Grant Fund, and a field trip. The field trips are generally tied in with the theme of the symposium through the occurrence of the mineral species connected with the lectures.

The current president of PA Chapter, Roland Bounds, was the first recipient of the Chapter Research Grant. Since its inception, the research grant has been awarded to a number of deserving students at a variety of area Universities. It is an annual award of \$500.00 for use toward the expenses associated with graduate and undergraduate research in mineralogy.

One of the missions which the Pennsylvania Chapter has undertaken over the years, is the reproduction of significant local mineralogy papers, such as Samuel Gordon's 1922 "Mineralogy of Pennsylvania", the production of Robert C. Smith's 1978 "The Mineralogy of Pennsylvania 1966-1975", Art Montgomery's 1997 "Reminiscences of a Mineralogist" and several other earlier works.

Much of the Chapter information can now be obtained on the Chapter web site at http://www.geocities.com/fm_pa/. This includes applications for the student research grants and other important chapter information.

Membership for the PA Chapter is \$15.00 per year per person.

CHAPTER REPORTS

Pacific Northwest Chapter:

Pacific Northwest Chapter held their meeting June 10th at the Rice Northwest Museum of Rocks and Minerals in Hillsboro, Oregon. The museum celebrated the opening of their new "Gold" exhibit. Ray Lasmanis, Washington State Geologist presented a history of gold mining in Washington State complete with an update of current gold mining operations. A swap and sales meet was held during the daylong event and was followed by an evening barbeque and more viewing of the museum collection. Attendance of members and guests at the museum was about 200.

The chapter's next event is a cleanup of Washington Pass campground followed by a mineral dig for Zexterite, August 11-13.

The chapter's annual symposium will feature the Minerals and Mines of Nevada and will be held at the Days Inn, Tacoma, Washington September 22-24. Walt Lombardo, Nevada State Geologist, will present "Mineralogy of Nevada" and "Mineralogy of the Goodsprings Mining District. Casey and Jane Jones, Miners and Mineral Dealers, will speak on "Specimen Recovery at Operating Mines: the Muray Mine and the Meikle Mine". The program will also include a special program for micro mineral collectors and a Benefit Auction for the PNWFM Chapter. Displays, Floor Dealers and Satellite Dealers are always popular attractions. It promises to be a FUN weekend!

Sharleen Harvey, President

Southern California Chapter-Bob Reynolds

The SCFM chapter currently has two programs that it is pursuing. The work on the inventory of California mineral localities is currently focused on Riverside County, and work shops are planned at the Riverside Municipal Museum. The Chapter has

also been working with museums in the Mojave Desert. The Mojave River Valley Museum and the BLM and Barstow Community College opened the Desert Discovery Center in May, and the SCFM provided four lectures on Mojave mineralogy and geology, a display of California Pegmatite Minerals, and three new posters of Werner Lieber runner ups that featured "Minerals of Arid Lands". The Shoshone Museum in Inyo County, near Southern Death Valley is interested in upgrading their collection and developing an inventory system. The members helped in both regards and naturally took time to inventory some of the local lead mines.

Colorado Chapter- Bill Chirnside

The Colorado Chapter held its auction on June 8, 2000 at the Glendale Community Center. The next scheduled event will be the regular chapter meeting to be held at the Denver Museum of Natural History at 7:30 PM on September 7, 2000. A field trip to Wyoming is scheduled for chapter members on September 21-24, 2000. More details on the field trip will be available at the September chapter meeting.

Pennsylvania Chapter- Roland Bounds

Planning continues for this fall's symposium which is to be held the weekend of November 3-4-5, 2000. The theme is a tribute to Dr. Arthur Montgomery. Plans for a late spring - early summer field trip have been delayed due to difficulties with quarry access. We are now shooting for a late summer field trip.

The last PA Chapter Board meeting was held at the New Jersey Earth Science Show in Franklin, NJ. Chapter business was conducted, and there was time for looking at minerals and exhibits, as well as time to socialize.

Midwest Chapter- Ernie Carlson

The Midwest Chapter held its third symposium on Saturday April 1, 2000, in Columbus, OH. Invited speakers were: Dan Behnke, John Medici, Terry Huizing, Andrew Sicree, Anne Argast, Nelson Shaffer, Henry Barwood and Alan Goldstein. On April 2 a field trip was run to the Duff & Son quarry near Huntsville, OH, and on May 20 to LaFarge quarries at Woodville and Millersville, OH. Our next meeting is June 24 in Bloomington, IN, where president Dwaine Edington will present "Why Micromounting?".

Southeast Chapter- Chuck Miller

The Chapter held its spring outing over the Memorial Day weekend at Graves Mountain, GA. In spite of temperatures in the low 90's, the intrepid hunters gathered to hear Drexel Pitts and John Whatley discuss the collecting opportunities and the geological history of this complex mine site. Finds of the trip included rutile, lazulite and micro crystals of variscite.

The Chapter's fall symposium will be held October 27-29 at the Weinman Museum in White, GA. The topic will be "Gold in the Southeastern US".

Mississippi Valley Chapter- Larry Nuelle

The MV Chapter held their first official meeting on March 12, 2000 in the hospitality room of the KC Market Center in Kansas City, MO., with the second meeting on June 9th at the Missouri Mines State Historic Site. Mark Sherwood has volunteered to be the president-elect and Judy Oetting will be doing the newsletter. Art Hebrank has been appointed the Chapter Archivist. The official repository will be at the Historic Site. An audit committee was formed and it was noted that an annual report to the State of Missouri will be due in August 2001. The Chapter is now seeking members to fill the symposium committee, the field trip committee, and eventually, the nominating committee. If you live in or near Missouri and are a national member, you may wish to join this Chapter!

DIRECTORY OF EARTH SCIENCES SPEAKERS IN THE MAKING- Dr. Andrew Sicree

We'd like to ask for your help. In conjunction with the **Mineralogical Society of America** and the national Friends of Mineralogy, We are assembling a *Directory of Earth Sciences Speakers* and want to list you in our Directory.

Many mineral clubs, museums, Scout groups, school classes, business organizations, etc., are constantly on the lookout for good speakers to talk to their groups about the earth and mineral sciences, but they don't know how to find people willing to speak. These groups are looking for people like you—people who are willing and able to talk to the public about some aspect of the earth sciences.

Initially, we hope to have the Directory installed as a searchable list connected to the Mineralogical Society of America's Web page. A printed copy will also eventually be prepared for those who cannot access the Web. (continued on page 8)

Information Form for the Earth Sciences Speakers Directory

☐ **Yes!** I want to advance the public's knowledge of the importance of minerals and the earth sciences. I am willing and able to speak to mineral clubs, Scout groups, museums, schools, etc., about the earth sciences. Please add me to the *Earth Sciences Speakers Directory*. PLEASE TYPE OR PRINT CLEARLY.

Full Name (Title, First, Middle, Last): _____

Primary Address: _____ **2nd address:** _____

City: _____ **City:** _____

State: _____ **ZIP:** _____ **State:** _____ **ZIP:** _____

Phone: (____) _____ **Phone:** (____) _____

FAX: (____) _____ **FAX:** (____) _____

Email: _____ **Email:** _____

WEB: _____ **WEB:** _____

Topics and Titles of talks, programs, and/or demonstrations which I can give:

Topic **Title of Talk** (e.g. Topic="Volcanoes", Title = "Minerals from Mt. St. Helens")

_____	_____
_____	_____
_____	_____
_____	_____

Please list up to 3 articles you have authored about which you'd be willing to talk to the public:

Do you require the following: Honorarium? ☐ Yes ☐ No ☐ No, but I'd like one! How much? \$ _____

Travel expenses? ☐ Yes ☐ No I'm am not willing to travel more than _____ miles from my home.

Equipment needed: ☐ Slide projector ☐ Overhead projector ☐ Video player ☐ Video projector

I'm willing and interested in speaking to the following types of groups: ☐ General public

☐ Rock & Mineral clubs ☐ Gem & Mineral shows ☐ Museum groups ☐ Grade schools

☐ High schools ☐ Professional groups ☐ Youth groups (Scouts, etc.) ☐ Other: _____

Educational Background:

Degree/year: _____ **Major:** _____ **College/Univ:** _____

Degree/year: _____ **Major:** _____ **College/Univ:** _____

Current / most recent employer: _____ **Title:** _____ **Retired?** _____

Professional societies: ☐ MSA ☐ FM ☐ GSA ☐ SEG ☐ SME ☐ Other: _____

I am willing to have the information above listed in the Earth Sciences Speakers Directory.

Print Name: _____ **Signature:** _____ **Date:** _____

Send completed forms to: Dr. Andrew Sicree (Director, Penn State Univ. Museum), Attn: Speaker's Directory, P. O. Box 10664, State College, PA 16805. Call (814) 865-6427 or email <sicree@geosc.psu.edu> for more info. Please feel free to add additional comments and/or materials such as bio., CV, clippings, other work and speaking experience.

Forest Service Rule on Roadless Areas Sparks Debate

Access to collecting sites has been an ongoing concern to the mineralogical community for many years now. A recent regulatory initiative by the US Forest Service (FS) to reduce or prohibit roads in certain portions of the National Forests is now out for public comment. The rule could have implications on the accessibility of mineral sites in the forests and should be reviewed by FM members. The comment period ends July 17th.

Background

Citing budgetary constraints and the desire to maintain the 'wilderness-like' integrity of portions of the National Forests, the FS issued, on January 28, 1998, a notice of intent (NOI) to propose revisions to the National Forest Transportation System regulations governing the development and maintenance of roads. The response was substantial: the agency received over 119,000 comments. On February 12, 1999, the FS published an interim final rule, which temporarily suspended road construction and reconstruction in most roadless areas of the National Forest System while the agency grappled with the decision on how best to proceed with the road management scheme.

On October 12, 1999, President Clinton called on the FS to develop a rule to protect roadless areas that "represent some of the last, best, unprotected wildland anywhere in our Nation." On October 19th, a mere seven days after the President's statement, the FS formally initiated the rulemaking process to protect certain roadless areas within their System. Approximately 16,000 people attended public hearings across the country and the agency received over 365,000 written responses. On May 10, 2000, the agency published the *Proposed Rule on Roadless Area Conservation* in the Federal Register.

Synopsis of the Rule

The FS completed an extensive national inventory of roadless areas in 1979. Using that data as a basis for the rulemaking, the agency has identified 54.3 million acres that would become subject to the new rule. Of the 54.3 million acres, current rules prohibit road building on approximately 20.5 million acres and approximately 2.8 million acres were developed since the 1979 inventory. The 54 million acres involved in then ruling amounts to 28% of the total National Forest System land holdings. The Tongass National Forest is exempted from this rulemaking until 2004.

For clarification, a 'road' under the FS definition is a developed area 50" or greater used for motorized vehicle access. Developed areas less than 50" wide may be designated as paths or trails. The definition of a 'Roadless Area' is very broad. The FS describes these tracts as inherently "wilderness-like". Note that President Clinton referred to them as "wildlands". In fact, it appears that many of the tracts lie adjacent to congressionally designated wilderness areas.

The rule would place a permanent prohibition on construction or reconstruction (maintenance?) of roads on tracts of land 5,000 acres or greater within the inventoried roadless areas. Existing roads in the affected areas would thus be allowed to return to their natural condition, and very few exceptions are allowed. Since this is a national rule, decision-making on the specific areas at the local or regional level is eliminated. What is left to the local FS management ("responsible official") is the authority to determine whether other areas less than 5,000 acres (greater than 1,000 acres) should be included in the prohibition and the latitude to include other acreage during the revision of the individual forests' land and resource plan.

Discussion

Protection and preservation of our natural heritage is not a foreign concept to Friends of Mineralogy. We are dedicated in our own way to the same goals. It might be said that elimination of roads in these designated areas might be a benefit to our cause. Reducing road access to collecting sites would be beneficial in that it would help 'preserve' the site for future generations. On the other hand, logging, and new mineral or oil and gas exploration would be prohibited and we could see some further restrictions on what the recreational hobbyist might be able to do in these areas. We are an aging but highly mobile society with a clearly recreational bent. Reducing access via roads will impact hunting, camping, and fishing in much the same way as it would impact the collecting community. Then there's the question of access for the physically-disadvantaged...

Critics of the rule have expressed the underlying concern that the roadless initiative is really tantamount to an attempt to increase in the amount of "Wilderness" acreage without the process of Congressional approval. At present, just over 42 million acres or 22% of the nation's forest lands are classified by Congress as Wilderness. If the rule is put in place, the total percentage of forest lands classified as wilderness or pseudo-wilderness will jump to

50%. Plan on walking more or firing up the ole pack mule!

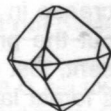
Peeking Behind the Curtain

The House Committee on Resources held a hearing on May 23, 2000 in Washington, D.C. to examine the role of foundations in lobbying the federal government for greater restrictions on land use. Bob Huberty, executive vice president of the Capital Research Center, a D.C. think-tank organization specializing in charity, philanthropy and the nonprofit sector, presented some interesting insights into the role of grant-making organizations in influencing the Forest Service roadless rule. The lobbying process isn't new and it certainly isn't limited to nonprofit environmental groups, but Huberty's testimony is enlightening.

In his written statement before the committee, Huberty singles out the Pew Charitable Trust as the key driving force behind the roadless initiative. He notes that as early as September, 1998, the Pew Trusts made a \$1.4 million grant to the National Audubon Society to orchestrate the roadless campaign. A year later, the Trust gave the Society an additional \$2.1 million for 15 months "to complete a public information effort for permanent administrative protection of the largest remaining tracts of pristine old growth remaining in the U. S. national forests." The Pew Charitable Trusts have also granted millions to other environmental organizations involved in promoting the roadless area initiative.

Other environmental groups have jumped in looking for a piece of the action. One group requested funds to conduct their own independent inventory of the roadless areas in the USFS domain— a clear incursion into the FS' authority and decision-making.

The Pew Charitable Trust? The original money (\$100 million) came from J. Howard Pew, son of the founder of Sun Oil Company. Some would call that ironic—others might find it merely poetic justice.



Directory. continued

For the *Directory of Earth Sciences Speakers*, we need people who can speak about minerals, metals, volcanoes, rocks, mining, weather, the oil industry, mining history, gold panning, prospecting, lightning, tornadoes, meteorites, stone quarrying and aggregate production, fossils, dinosaurs, Mars, gemstones, and much more. In short, we need you. You've written papers on earth science topics or spoken to clubs in the past, so you know the importance of bringing good science to the general public. Please look over the enclosed form below. Make a copy and fill it out! Send copies to folks outside of FM that you think could participate! Sign at the bottom and return it to: Dr. Andrew Sicree, (EMS) Museum Director), PO Box 10664, State College, PA 16805. You do not need to be a member of the Mineralogical Society of America or the Friends of Mineralogy to be included.

DON'T BE SO SHY!

The WERNER LIEBER PHOTO CONTEST is focusing on Russian Minerals this year. Come on! You've got great minerals and a good camera— give it a try! All the information you need is included on the next page.

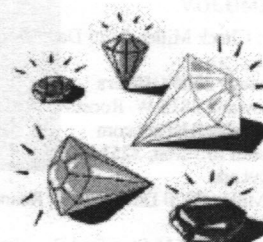
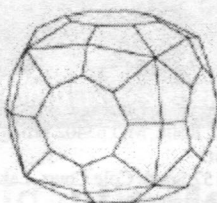
Remember, the winning exhibit travels the country for the entire year helping to spread the word on the wonders of the mineral kingdom.

REPORT CONCERNING CHANGES ON THE INSURANCE COMMITTEE by J. M. Howard

I was informed by Omer Dean early in June that he was resigning as Chair of the Insurance Committee effective immediately. Omer has both too many irons in the fire and some health problems to be able to continue with this project. In fact after this year, he noted that he was not going to be able to continue as a FM member.

Speaking for all of Omer's friends on the Board and in the general membership, FM will miss one of our hard workers and diligent members! We all wish you the best!

As FM President, it has fallen on me to fill this chair by appointment, so after requesting a volunteer from the Insurance Committee and hearing none, I have appointed Joe Marty as Chair. He was officially notified of this action during the 3rd week of June. I urge anyone willing to assist Joe with research into insurance for FM members to contact him by email or telephone as quickly as possible. E-mail: joe.marty@hsc.utah.edu Telephone: 801-582-6144.



Werner Lieber Photo Contest and Traveling Museum Exhibit

Sponsored by Friends of Mineralogy

A traveling Museum exhibit will be
created from the best photographs
submitted for the contest

**Categories: Juniors, Amateur Adults--(a) Micro and (b) Macro Minerals,
Professionals, and Digital/Computer-Enhanced Photography**

Contest Rules:

1. Matted 8"x10" print. Mat must be 11"x14".
2. The photo must be related to the contest theme:
Russian Minerals.
3. Each photo must have a caption with locality, bar scale or description of crystal size, photographer, category, and other information submitter deems relevant. Caption should be attached to back of mat.
4. Photos will be displayed at the 2001 Tucson Gem and Mineral Show. Winners will be announced then.
5. All photos become the property of FM. Copyright will be retained by author, but FM has royalty free use.
6. A non-monetary award will be presented to the winners.
7. Contest deadline: November 1, 2000.
8. Mail submittals to Dr. Karen Wenrich, P.O. Box 5054, Golden, CO 80401--(303) 278-1218 (Phone & Fax); email: CrystalsUL@aol.com.

Masthead

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Until 2003

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(Crystal forms using Crystals TTFont by Robert Boehringer)



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