

# Friends of Mineralogy

A Quarterly Newsletter



VOLUME 30, ISSUE 4

OCTOBER-DECEMBER 2000

## President's Message

It's simply amazing to me that another year has slipped by! Some opportunities were lost and others taken advantage of in year 2000. I have done what I could when I could to further FM's causes and look forward to serving on the Board the next couple of years with whatever assignments come my way.

I want to thank all my officers and all the Board members for a job well done. For some, this will be their last year as an officer or to hold a particular position. This is my last chance to thank you by name, so to:

Regina Aumente for your years of service as Membership Chair, thanks! Roland Bounds for your years of service as National Treasurer, thanks! Chuck Miller for your first year as National Secretary, thanks! Nelson Shaffer as past president and Nomination Committee Chair, thanks! Karen Weinrich for the time and effort you have put in to make the Werner Lieber Photo Contest grow and prosper, thanks! And also thanks to Ray Grant for his hard work setting up the 2001 Symposium.

There are a number of other special people I need to thank for their efforts in encouraging me during the past few years and for their efforts towards FM:

Credo Schwab, thanks for showing me how to do a newsletter and getting me active in FM. George and Judy Megerle, thanks for being such great friends. Wendel Wilson, thanks for your cooperation this past year with the FM page in Mineralogical Record. Marty Zinn, thanks for your years of support for FM and annual assistance with the Tucson FM Social.

All of these folks and many more have helped make my year as National

President a whole lot easier! In this, my last official message in the quarterly newsletter, I ask that you go to the effort to send in your ballots to Chuck Miller, National Secretary, for the upcoming Board elections. I am certain you will find all the candidates well qualified. Remember: your vote counts!

Sincerely,

J. Michael Howard  
President, FM Y2000

FM HOMEPAGE:  
[Http://www.indiana.edu/minerals](http://www.indiana.edu/minerals)

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# WE WANT YOU!!

## **FM SOCIAL SCHEDULED FOR TUCSON**

**Mark your calendars ! The annual FM social is scheduled for Tuesday, February 6th from 4-6 PM at the Executive Inn. Join your friends, meet the FM Board members or just relax by the pool. See you there !!**

# The Minerals of Russia

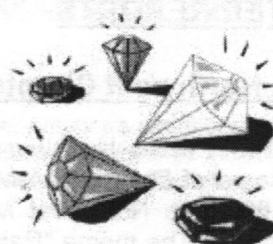
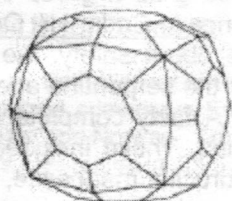
## 22nd ANNUAL MINERALOGICAL SYMPOSIUM

9:30 AM - 4:20 PM Saturday, February 10, 2001

### Program

9:30 - 9:40	<b>Introduction and Welcome Symposium Chairperson</b> - Raymond Grant
9:40 10:10	<b>Famous Mineral Localities and Mineral Collecting in the Former Soviet Union, Past and Present</b> Dmitriy Belakovskiy
10:10 10:30	<b>Alkaline Massifs in Russia and the Former Soviet Union a Mineral Heaven</b> - Dmitriy Belakovskiy
10:30 10:40	<b>Kola Peninsula: the Greatest Mineral Treasure of Russia Today</b> Igor Pekov
10:40 11:00	<b>Mineralogy of the Alkaline Massif Burpala (North of Lake Baikal)</b> Aleksandr Portnov
11:00 11:25	<b>Recent Mining of Minerals and Gems in Russia by Stone Flower Company</b> Nikolai Kounetsov
11:25 11:40	<b>Nomenclature of Quartz Color Variations: Pink and Rose</b> Hidemichi Hori
11:40 12:00	<b>Trace Element Zoning in Metamorphic Minerals</b> Sergei Skublov
12:00 1:20	<b>Lunch Break</b>
1:20 1:40	<b>The Crystal Structure and Charge Density Analysis of Kovdorskite (<math>\text{Mg}_2(\text{PO}_4)(\text{OH}) \cdot 3\text{H}_2\text{O}</math>)</b> Charles Lake and Bryan Craven
1:40 2:00	<b>The New Russian Classics</b> William Shelton
2:00 2:20	<b>Tourmaline from the Malkhanskiy Pegmatite District</b> Wm. B. Simmons, Karen L. Webber, and Alexander U. Falster
2:20 2:40	<b>Gem Pegmatites and Greisens Deposits of Russia in the Twentieth Century</b> Peter Lyckberg and Viktor Zagorsky
2:40 3:00	<b>Gem pegmatites of the Ukraine, Kazakhstan and Tajikistan</b> - Peter Lyckberg and Viktor Zagorsky
3:00 3:20	<b>Gem Beryl and Topaz of Scherlovaya Gora, Transbaikalia, Russia</b> Peter Lyckberg
3:20 3:40	<b>Chromate Minerals from Berezovskoye Deposit, Ural Mountains, Russia</b> J.A. McGlasson
3:40 4:00	<b>Group Element Deposits, Noril'sk, Siberia</b> J.A. McGlasson and Rosie Moore
4:00 4:20	<b>Mines and Minerals of Dal'negorsk Russia</b> Raymond Grant, John Weide, and Victor Korchevskiy





## **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.

## **CHAPTER REPORTS**

### **Pacific Northwest Chapter**

The Pacific Northwest Chapter of FM held a Board of Directors Meeting on November 11th at the Rice Northwest Museum of Rocks and Minerals. The theme "Rainbow of Minerals" was selected for the Symposium to be held September 28, 29, 30, 2001 at the Red Lion Hotel at Kelso/Longview, Washington. Donations were approved towards the purchase of northwest mineral specimens in the amount of \$400.00 for the Rice Northwest Museum of Rocks and Minerals, Hillsboro, OR and \$1,000.00 for the Pacific Mineral Museum in Vancouver, B.C. Following the meeting, Board Members joined with museum members, volunteers and guests for a preview of the muse's new "Rainbow Room" of Fluorescent Minerals. The next Board meeting will be held March 17, 2001 at the Red Lion Hotel in Kelso/Longview, Washington.

Sharleen Harvey, President PNW Chapter FM

### **Pennsylvania Chapter**

For the Pennsylvania Chapter: The Pennsylvania Chapter held its annual symposium on the weekend of November 3, 4, and 5. This annual event was a tribute to Dr. Arthur Montgomery and 30 years of Friends of Mineralogy. Friday's activities were held at the Delaware County Museum of Science in Media, PA. This is a very nice 19th century style museum with a good collection of local Pennsylvania minerals. An extra treat was provided by our host, Roger Mitchell, through a recent personal acquisition of a partial set of Rene J. Haug wooden crystal models.

Saturday's activities were a series of talks by Jay Lininger of Matrix Magazine, John White originator of the Mineralogical Record, Dr. Robert C. Smith, III of the Pennsylvania Geological Survey and Roland Bounds of the Delaware Geological Survey. Jay, John and Bob spoke upon different portions of the Arthur Montgomery era, while Roland spoke about the site of the field trip for the following day, Cedar Hill Quarry, Lancaster County, PA. Three dealers were present as a new feature of the symposium, while the end of the day was highlighted by the annual Grant Fund auction.

Sunday, the final day of the symposium was nearly perfect for collecting as a group of about 15 people met at the entrance to Cedar Hill Quarry. After the usual preliminaries about safety, we spent the next 4 hours looking for the serpentine alteration minerals typically present. A fairly complete assortment of specimens were found. These included the common minerals such as brucite, magnesite, hydromagnesite, and pokrovskite, as well as less common minerals such as coalingite, mcguinnessite, nakauriite.

Roland Bounds, President

### **Colorado Chapter**

The chapter met November 2 at the Denver Museum of Natural History. Officers elected included Bill Chirnside, President, Kaye Thompson, Vice President, Pete Modreski, Secretary, Jim Hurlbut, Treasurer. Next meeting is scheduled for January 11th, 2001.

### **Southeast Chapter**

The SE chapter met on November 25th at Virginia Western Community College in Roanoke, VA. The meeting was held in conjunction with the Roanoke Valley Mineral & Gem Show. The gold seminar has been rescheduled for late March, 2001 in Dahlonega, GA.

CHAPTER PRESIDENTS: Forward your new officers and directors to me as soon as you can. Ed.

## **DUES, DUES, DUES**

This is the last newsletter for the year 2000. Dues are now due for the year 2001. If you are a local chapter member, PA, CO, SC, SE, MV, PN, Midwest, please pay your current dues to their chapter membership person. If you are a National member only, please pay your dues to the National Treasurer, Roland Bounds, 315 Stamford Drive, Newark, DE 19711-2723. Annual dues for National membership are \$10.00 per person per year. Regional chapters determine their local dues and then forward the National Chapter its portion. Please try to get your dues paid before Tucson, as the Treasurer's position will be changing hands. Thanks, Roland



## **NOMINEES FOR THE BOARD OF DIRECTORS, 2001**

### **William H. (Bill) Dameron**

Both Bill and his wife Diana are retired from the U.S. Foreign Service, America's cadre of career diplomats. Bill specialized primarily in European economic issues and African affairs. His foreign postings included Libya, Nigeria, Hungary and Norway. Among his Washington positions he was (Acting) Deputy Assistant Secretary of State for African Affairs. He retired in 1995 while serving as U.S. Ambassador to Mali.

Bill retired early in order to pursue more seriously mineralogy and classical music. He is an oboist with two community orchestras in Portland, Oregon, and he and his wife are active members of the Pacific Northwest Chapter of the Friends of Mineralogy. Bill is on the national Board of Directors of the Friends of Mineralogy, and has chaired two working groups of the Board. He and Diana participate in a number of national mineral shows and symposia and are invited guest exhibitors at the Tucson Gem and Mineral show. Bill received a B.S. from Georgia Tech and his MBA from Georgia State.

Bill is also a member of the American Foreign Service Association, the Army and Navy Club of Washington, D. C., the Metropolitan Opera Guild (New York), The Alliance Française of Portland and the Japanese Garden Society of Oregon. His languages have included Italian, Hungarian, Norwegian and French. He was in the U.S. Marine Corps Reserve and was a banker before joining the Foreign Service.

### **Bob Reynolds**

Since leaving the San Bernardino County Museum, where he served as Curator of Earth Sciences for 32 years, Bob Reynolds has been volunteering with the Mojave River Valley Museum, the Desert Discovery Center in Barstow, the Shoshone Museum, and the Riverside Municipal Museum in mineralogical and paleontological exhibits and programming. With the Southern California Chapter, Friends of Mineralogy, he continues to host Mineral Collectors Workshops and field trips, and circulates photographic outreach exhibits on mineralogy developed through the Werner Lieber photo contest.

### **Regina Aumente**

For the last six years I have served on the FM Board of Directors as Membership Chairperson – maintaining a membership list, generating mailing labels and producing the directory. While my formal training is not in mineralogy or geology, I have been involved with the mineral hobby community for more years than I care to admit. I have helped to produce the Denver Gem & Mineral Show, in charge of publicity, dealers, and now exhibits, since the early '80s. I have also been active in local mineral clubs, as a newsletter editor (which I still do) and taking other offices from time to time. I am a firm believer in the importance of science education, and feel that the study of minerals, fossils and gems offers a great way to interest children (and their parents). Dinosaurs are also a passion of mine (you really should see my T-Rex phone), and I have been proud to be a volunteer with the Friends of Dinosaur Ridge since the inception of the organization. I am currently the Assistant Show Manager for Martin Zinn Expositions, which takes me to the biggest mineral and fossil shows in the country. I consider myself fortunate to be able to combine my hobby with my work. Hope to see you at the FM social!

### **Virgil W. Leuth**

Virgil is Mineralogist/Economic Geologist and Curator of the Mineral Museum at the New Mexico Bureau of Mines & Mineral Resources. He received his B.S. in geology at the University of Wisconsin - Eau Claire and graduate degrees (M.S. and Ph.D.) from the University of Texas at El Paso. He has worked for the Wisconsin Geological & Natural History and the U.S. Geological Surveys. Prior to arriving at the Bureau, he held positions as both Assistant and Associate Professor of Geology at Tarleton State University, Stephenville, Texas. His research interests include the study of skarns, solid solutions in sulfide minerals, phosphate mineralization, biomineralization, jarosite and alunite geochemistry/geochronology and the mineralogy of New Mexico. Virgil currently serves on the Board of Directors of the Society of Mineral Museum Professionals, New Mexico Geological Society and as an adjunct curator at the New Mexico Museum of Natural History and Science.

Dr. Lueth has been long active in the mineralogical community, serving as advisor to student clubs in geology/mineralogy and membership in local clubs. In his current position, he assists the public with rock and mineral identifications and as General Chairman of the New Mexico Mineral Symposium. He exhibits the collections of the Mineral Museum at local and regional mineral shows (New Mexico, Tucson, Denver) and present programs at these meetings as well as at the request of clubs and civic organizations. He was the recipient of the Honorary Award from the Rocky Mountain Federation of Mineral Societies in 1996 for his service to the mineralogical community.

#### William B. Simmons

Wm. B. "Skip" Simmons (Department of Geology and Geophysics, University of New Orleans, New Orleans, LA 70148, email address: wsimmons@uno.edu <mailto:wsimmons@uno.edu> ) grew up in North Carolina where he first became acquainted with pegmatites in the Spruce Pine area. He has been an avid mineral collector ever since. He attended Duke University for a B.S., the University of Georgia for the M. S., and The University of Michigan for a Ph. D. in mineralogy. He has worked at the University of New Orleans for the last 28 years as Professor of mineralogy and was recently appointed Research Professor. At UNO he teaches courses in mineralogy, X-ray crystallography, and analytical techniques and is the director of the microbeam analytical laboratories. His research interests are principally concerned with the mineralogy, petrology, geochemistry, and modeling of cooling rates / crystal growth rates of pegmatites. He is an author on more than 200 publications in geological and mineralogical journals, magazines and books. He is the UNO sponsor for the Louisiana Gem and Mineral Society. He was the co-convenor with Tony Kampf for the 1999 FM-TGMS-MSA 21ST Annual Mineralogical Symposium on the Minerals of Brazil.

#### Andrew Sicree

Andrew Sicree is the Director and Curator of the Earth & Mineral Sciences Museum at Penn State University in State College, PA, where he has been employed as a member of the faculty since 1992. The museum at Penn State has an extensive display of minerals and sponsors a variety of mineral education events including the Pennsylvania Mineral Symposium. He began collecting minerals as a youngster in Dayton, OH, where he was a member of the Pebble Pups sponsored by the Dayton Gem & Mineral Society. His parents, Al and Sylvia Sicree are still active with the Dayton Gem & Mineral Society and the Cincinnati Gem & Mineral Society. Andrew was one of the founders of the Nittany Mineralogical Society which meets at the mineral museum at Penn State.

Andrew Sicree holds a M.S. in Chemistry from Carnegie-Mellon University in Pittsburgh, PA, and a Ph.D. in Geochemistry and Mineralogy from Penn State University. For his Ph.D. thesis he did work on the zinc and lead minerals of the Upper Mississippi Valley district in Illinois-Wisconsin. In addition to lead and zinc minerals, he has interests in meteorites, diamonds, and mastodons. He is a member of the Friends of Mineralogy, the Mineralogical Society of America, and the Geological Society of America.

*Detach and mail*

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**Bob Reynolds**

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**Wm. B. Simmons**

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**Bill Dameron**

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**Regina Aumente**

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**Virgil W. Leuth**

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**Andrew Sicree**

**RETURN COMPLETED BALLOT TO:**

**Chuck Miller, Secretary**

**3320 Dawn Circle**

**Roanoke, VA 24018**

**Ballots must be received no later than February 3, 2001.**



# Insurance and Risk Management Resources

## Topics for the Inexperienced Insurance Buyer or Risk Manager

### The Insurance Company Made Me Do It!

Ken L. Sloan

#### Editors Note:

*I met Ken recently while working on a company project. Ken is an expert in mining-related insurance issues and I tried to 'pick his brain' on the ever-increasing problem of restricted access to private mining sites and quarries for hobbyists. Our discussions were enlightening, and Ken graciously agreed to do this article for FM.*

Have you ever walked into a car dealership service department or other business with a shop, warehouse or storage area, and come face-to-face with a prominent sign that said, "DUE TO INSURANCE AND OSHA REGULATIONS, PLEASE DO NOT ENTER OUR WORK (WAREHOUSE) AREA UNLESS YOU ARE ACCOMPANIED BY A STAFF MEMBER.", or at least something to that effect? Have you asked for permission to use property for a nature hike, classroom outing, science project or for sporting purposes and been told, "SORRY, MY INSURANCE COMPANY WILL NOT ALLOW ME TO APPROVE YOUR REQUEST."? Well, the truth of the matter is that the insurance company probably did not issue such "regulations" nor did they prohibit the property owner from approving your request. "The insurance company made me do it" is usually a convenient excuse used by property and business owners to avoid conflicts with their customers or others.

In the USA especially, people on someone's property or in their work area does increase the risk of injury and invites costly lawsuits. Such access can certainly disrupt the efficiency of business operations or distract middle management from their regular duties. However, the blame for the business owner's decision should not be laid at the feet of the insurance industry. Generally, any insurance company will applaud decisions to restrict access to the public, particularly when there may be unknown or unusual hazards. But, it is very unusual for an insurance company to restrict coverage or an insured's ability to manage how their property will be used.

The potential for lawsuits or the disruption of business operations does constitute a viable rationale for denying public access to premises or operations. However, there are also legitimate reasons for granting public access to property or operational areas. Land, lumber and mining companies, in particular, are frequently asked to permit access to their property for any number of worthwhile purposes. These can include nature studies, scientific or archeological projects, geological clubs, as well as hobby and recreational purposes. Since these industries usually have vast land holdings they are faced with the need to promote good community relations without taking excessive risk. Outright denial of reasonable requests could invite unauthorized, and thus uncontrolled, access to property. Unauthorized access can present as great or even greater risk than controlled access, particularly when those without proper approval have not been trained, have not been monitored for needed safety equipment and have not voluntarily restricted themselves to authorized areas.

Customer or public relations issues can override other business concerns, including the concern over injury lawsuits. When this is the case, insurance companies will usually support decisions to grant the public limited or controlled access to premises or operations. However, most insurers will expect the business owner to take special precautions. These precautions can include any number of actions, depending on the nature, type or intensity of the business activity. Some of the more common safety or risk management measures that business owners could implement when allowing access to their premises or operations include:

- Training the individuals and/or group leaders on premises safety requirements and pointing out hazards or locations to avoid.
- Setting aside special routes or locations (indoors or out) and taking extra steps to mark these areas for public access.
- Identifying or removing unusual hazards in designated areas.
- Requiring organized groups to provide commercial general liability, auto liability or evidence of personal and auto liability insurance for individuals.

- Require individuals or groups to make appointments in advance and designate a check point for admittance.
- Require signed hazard training forms and signed waivers of liability\* with hold-harmless and indemnification provisions. This should be updated at least annually for each individual and/or group allowed on premises or in work areas.
- Depending on road conditions, restrict the type of vehicles allowed on site and prohibit access to active work areas with heavy and extra heavy truck traffic unless or until non-employee drivers have been **thoroughly trained** on premises traffic patterns and rules of the road.
- Provide special markings (banners, battery operated warning dome lights, orange flags on poles, etc.) to distinguish vehicles and drivers that may not be experienced in premises traffic controls.
- Groups involving minors with or without adult supervision should always be accompanied or supervised by an experienced, safety trained, employee.

(\*) *Liability waivers, in most jurisdictions, are not adequate to avoid liability, particularly as respects the interest of others in the individual that has signed such documents. This usually takes the form of a spouse, dependent child or other relative. Most courts have held that an individual cannot waive the rights others that may depend on them regardless of the circumstances. However, having the a liability waiver on file can provide some evidence that the person injured requested access to the premises and was not an invitee. This could serve to reduce the level of care owed by the premises owner. It is highly recommended that any use of liability waivers be discussed with and coordinated through proper legal counsel.*

Taking reasonable safety and risk management steps to reduce the probability of an injury to the public will usually be well received by the insurance company and provide a means for the business owner to promote public or community relations. In the final analysis, it is up to the business owner to decide if, when or how the public will be allowed to gain access to all or portions of their operations. A mutually agreeable resolution can usually be found when the party or parties requesting access to restricted areas have thoroughly explained their request and acknowledge the risks faced by the business owner. It is also important to demonstrate a willingness to undergo and follow the training and

safety procedures as determined by the business owner.

Not all requests for access to a business owner's property or operations should be granted. The business owner must weigh the risks against the potential impact a rejection may have on their profitability, efficiency and community relationships. The person or group wanting access to the property or restricted areas, should first analyze their request and anticipate the concerns and issues of the business owner.

Kenneth L. Sloan, Jr. ARM, CIC, CRM

*Kenneth L. Sloan, Jr. is a risk and insurance management consultant for a major international insurance and risk services brokerage firm with over thirty years experience as a commercial underwriter, insurance company field agent and national account broking specialist.*

### **Special Feature**

#### ***Mineral Museums You've Just Got to See!***

*FM's educational outreach activities can take many forms. One of the more challenging is the support FM provides to museums around the country. Here, Sharleen Harvey describes the history and activities surrounding the Rice Museum in Oregon. Are you active in a museum curatorial effort? Tell us about it!!*  
Ed.

The Rice Museum is THE BEST rocks and minerals museum in the Pacific Northwest! The new Pacific Mineral Museum in Vancouver, B.C. is really good, but does not yet have the collection that is housed in the Rice Museum. My parents, Richard and Helen Rice spent almost 60 years assembling a collection of world class mineral specimens and lapidary works, including a spectacular petrified wood collection. We have over 3000 specimens, most of which rival specimens in the top museums in the nation. You really have to go from Portland to Denver or to L.A. to find anything of equal or greater caliber. Most of the "collector" visitors marvel at the depth of the collection.

The Pacific Northwest Chapter of FM is very supportive of the Rice Museum and the Pacific Mineral Museum. At the Rice Museum, they funded construction of an exhibit case in our Northwest Minerals Gallery and the members furnish an exhibit on a 6-month rotating basis. Presently it displays the Fossil Oregon Wood Casts from the collection of Dick and Ermaeane Rantz from Bellingham, WA. March 1st it will change to some of the worlds finest zeolite specimens from the collection of Rudy Tschernich. It gives the museum visitors something new to look at on a regular basis. At our



September meeting, the chapter voted to make donations to both the Rice Museum and the Pacific Mineral

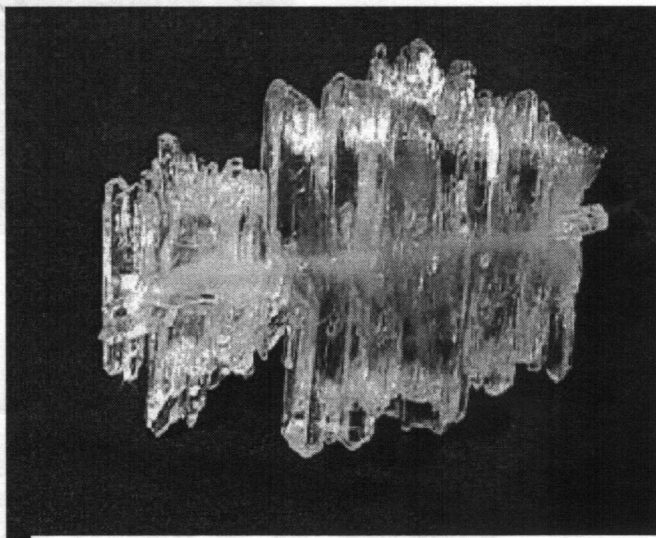
Museum towards the purchase of mineral specimens from the northwest region. Both museums reciprocate by exhibiting quality specimens at the annual symposiums.

Mark Mauthner, curator of the Pacific Mineral Museum could tell you more about their collection and their all private funding. Mark is a member of the Pacific Northwest Chapter of FM and can be reached at [markm@pacificmineralmuseum.org](mailto:markm@pacificmineralmuseum.org).

The Rice Museum incorporated in 1996 as a nonprofit private operating foundation and obtained its 501(c)3 IRS tax exempt status. Both Richard and Helen Rice passed away in 1997, willing their entire collection to the museum. Their 7500 square foot home houses the collection in the beautiful lighted floor to ceiling showcases that they built into their home in 1952. We converted the (4) bedrooms into galleries and the large living room seats 60 for presentations or meetings. The Rice family donated the home plus its 23 acre wooded park like setting to the museum. We have a really fine facility and a top notch collection all debt free. In 1997 we started a foundation fund and contributions have it at almost \$400,000 at this time. (We are aiming for \$2,000,000.) Only 85% of the income from the fund is used for operations, so it continues to grow. We have established a really neat earth science gift shop, it is self supporting and contributes income for operations as well. In summer months we rent the facility for up to (10) garden weddings and this adds another \$7500 plus to help cover operations.

The museum has expanded its Board of Directors from (3) to (5) members - 3 are family members and the board expanded to include professional expertise, Ray Lasmanis, Geologist and SW Regional Manager for the Washington State Department of Natural Resources and Rudy Tschernich, Geologist, Mineralogist, Author and Collector. We are gaining community recognition and support steadily. For the year 2001, the local Chamber of Commerce is featuring our emerald cluster on the front cover of its publication for visitor and tourism promotion, distribution to be about 40,000. We are definitely in it for the long haul - perpetuity!

**RICE NORTHWEST MUSEUM OF ROCKS AND MINERALS**, 26385 N.W. Groveland Drive, Hillsboro, OR 97124 - From Portland, take Hwy 26 West to Exit 61 (Helvetia Road). Turn right on to Helvetia Road and make a immediate left turn on to Groveland Drive. Just in case information is needed, phone 503-647-2418 or contact us at [www.ricenwmuseum.org](http://www.ricenwmuseum.org).



Quartz, parallel growth with faden, Jeffery Quarry, Pulaski Co., Arkansas  
Mike Howard photo



Natrolite Jackstraws, Granite Mtn. Complex, Pulaski Co., Arkansas  
Mike Howard photo

### Share Your Photos!

Mike Howard was kind enough to share some of his photos with us to get us started. Send me prints or digitals, add the locality information and a brief descriptive note if you wish. Help me 'spice up' your newsletter!! Remember, the shots will be printed in Black and White for the hard copy, but will be in full color on the web version when we put the issue on the FM homepage. Proper credit will be given for all work.

## Masthead

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### 2000 Board of Directors

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