

# THE ROCKHOUND RECORD

Vol. 72, Issue 7

Newsletter for the Mineralogical Society of Arizona, July - August 2006



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## Upcoming Program at MSA General Meeting Tuesday - September 12, 2006

**There will be a speaker from the Bureau of Land Management at our September meeting. More information will be forthcoming in the September newsletter.**

## PRESIDENT'S MESSAGE

**Testing, Testing – The SECOND Tuesday in September – 9/12 – is our meeting.**

We only have three meetings with which to test the new schedule for this year. I would hope that this is a great success and our attendance will double – even half again as much would be great. I may have jumped the gun in announcing the meeting night switch; just as many times upcoming field trips have not been announced until the meeting. The coalition field trips will always be listed in the bulletin, but sometimes opportunities for a CLUB trip, or other special excursion/opportunity does not arise until the night of the meeting.

A few events are planned for this fall, besides field trips, such as another potluck/swap meet, the Museum Day and the Christmas Party. MSA members would benefit greatly by helping out in being a part of the planning for these events. We should be discussing the fun things that are coming up and talk about planning for the lesser fun things – November officer and board election. We have to find people to fill all of the posts: President, Vice President, Secretary, and Treasurer. There will also be a need for two new board members.

We have had some of our newer members step up: Barbara, KJ, and those Chris guys – doesn't mean they have to do it or anything more. Just a BIG THANK YOU to all that have been there in the past and you new guys that are helping out.

Time for my soap box! We all work longer and have little free time and are looking for more return for our leisure enjoyment. This hobby is a hard one to change from the old fashioned way it has been and is still perceived. We have made strides, but the MSA can only improve so much if the same people are driving the ship. Please say something or do something to make this club of yours the best it can be.

Hope to see more of you at the NEW IMPROVED, SUPER DUPER TUESDAY MEETING on September 12.

Gil

## REMINDER!

The dates for the general meetings for the Fall of 2006 will be as follows:

**Tuesday, September 12**  
**Tuesday, October 10**  
**Tuesday, November 14**

## Show Calendar

### **Sept. 2 - 4 - Silver City, NM**

#### **Grant County Gem & Mineral Society - 23rd Annual Show**

Silver City Recreation Center - 1016 N. Silver St.

Hours: Sat. & Sun. - 10 a.m.-5 p.m.; Sun. - 10 a.m.-4 p.m.

### **Sept. 7 - 10 - Tucson, AZ**

#### **Gem & Lapidary Wholesalers, Inc.**

Holiday Inn/Holidome - 4550 S. Palo Verde Rd.

601-879-8832, Fax 601-879-3282

E-Mail: [info@glwshows.net](mailto:info@glwshows.net)

[www.glwshows.com](http://www.glwshows.com)

### **Sept. 7 - 10 - Tucson, AZ**

#### **Gem & Lapidary Wholesalers, Inc.**

Rodeway Inn/Grant Rd. - 1365 W. Grant Rd.

Thurs.-Sat. - 10 a.m.-6 p.m.; Sun. - 10 a.m.-3 p.m.

601-879-8832, Fax 601-879-3282

E-Mail: [info@glwshows.net](mailto:info@glwshows.net)

[www.glwshows.com](http://www.glwshows.com)

### **September 15 - 17 - Denver, CO**

#### **Denver Gem and Mineral Show**

Merchandise Mart - 451 East 58th Avenue

Sponsored by: The Greater Denver Area Gem & Mineral Council

Hours: Fri. - 9 a.m.-6 p.m.; Sat. - 10 a.m.-6 p.m.; Sun. - 10 a.m.-5 p.m.

Show Chair: Martin Hannu, 303-233-2516

E-Mail: [info@denvermineralshow.com](mailto:info@denvermineralshow.com)

[www.denvermineralshow.com](http://www.denvermineralshow.com)

### **September 30 - Sedona**

#### **Sedona Gem and Mineral Club - 5th Annual Show**

Sedona Red Rock High School Cafeteria

Highway 89A and Upper Red Rock Loop Road in West Sedona

Sponsored by: Sedona Gem and Mineral Club

Hours: 9 a.m. - 4 p.m.; Free Admission and Parking

For information call: 928-634-2404 or 928-203-9476

[www.sedonagemandmineral.org](http://www.sedonagemandmineral.org)

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### **Need to Contact the Officers?**

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**(602) 300-4368**

**Treasurer - Sally Fiske**  
**[xmasbelle@aol.com](mailto:xmasbelle@aol.com)**

**Secretary - Lois Splendoria**  
**[chimes@extremezone.com](mailto:chimes@extremezone.com)**

## Mineral Cleaning for Amateurs

By John Betts

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Many specimens collected in the field do not look like the ones that dealers are selling. Most collectors become discouraged or frustrated. These articles will give a few simple techniques clean the pieces you collect.

### Oxalic Acid

Anything that has the word "acid" sounds ominous. But oxalic acid is easy to find, use and the safest for the home. In fact it is found in many vegetables including spinach. It is used to dissolve the iron oxide (brown) stain on all minerals. Specimens collected at Phoenixville, Ellenville, Case Quarry, NH smoky quartz and many others clean up beautifully with oxalic acid. Zeolites do not respond as well, so you should test beforehand on small specimens to see how they react.

To make this as simple as possible I will give a step by step guide to its use. Do not take any shortcuts or make substitutions.

Purchase a one pound box of Oxalic Acid (OA) powder at your local hardware store in the paint department or at a paint store. It is used as wood bleach and will be labeled as such. The most common brand is Rainbow.

Fill a plastic one gallon container 3/4 full with **distilled** water. Pour in the OA crystals and stir for five minutes. Be careful not to inhale any powder when adding the crystals. Once the OA is dissolved top off the container to a full gallon. Label the container and put out of reach of children or pets.

When you are ready to use it place your specimens in a plastic container and add enough OA solution to cover. Set aside for several days.

Heat speeds up the reaction, as does agitation. If you have a hot plate and can set up outdoors or in an area with good ventilation the repeat step 4 but heat the solution to bath water hot (110o f.).

Never Boil! You will find that an hour in hot solution will usually do the trick. Best of all is an ultrasonic cleaner with built in heater. Sometimes only 30 minutes is necessary. But you should not put the OA directly into the stainless steel basin. Make a double boiler type of arrangement by partially filling the ultrasonic cleaner basin with water. Then place your specimens and OA solution in a plastic container or heavy duty plastic bag that is suspended in the water.

You can reuse the solution over and over. As it dissolves more and more iron it will get darker often taking on a green color. After it gets really dark I would discard it and mix a new batch.

Safety is important. OA solution is highly toxic. It can be absorbed through the skin and builds up in your organs cumulatively. Same goes for the fumes, which is why you never boil the solution and always have proper ventilation when using the heated solution. Be careful not to spill the solution on porcelain and keep away from food preparation surfaces.

After the iron color has disappeared then you can remove the specimens (with gloves on) and wash under running water for three hours. NOTE: If you have hard water in your area, it is smart to use distilled water for the first few rinsings to prevent the formation of insoluble oxalates that will stain the specimen yellow when dry.

Then soak in clean water for a day changing the water as often as possible. The best formula for washing minerals is:

- Change the water every minute for an hour.
- Change the water every hour for a day.
- Change the water every day for a month.

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The best way is to place the rocks to be washed in a 5 gallon bucket. Drill a small hole in the bottom, then fill with water and adjust the flow of the water trickling in to equal the flow out through the small hole. Acid is heavier than water. It will settle to the bottom and flow out through the hole. The trickle in ensures that all specimens are covered with water.

In spite of the fuss, this is the best all around method of cleaning minerals. I keep a large five gallon bucket with tight fitting lid filled and ready, I drop specimens in as I collect them. It always works and the large volume does not exhaust quickly. Mastering this technique will provide an important tool in your mineral cleaning and preparation arsenal. Good luck!

### **Muriatic Acid**

Now we are going to get more aggressive with our mineral cleaning technique. Hydrochloric Acid is available in most hardware store as Muriatic Acid. It is sold in one gallon containers and is used to clean masonry and as a rust remover, which is what we will use it for. In spite of it's availability, it is dangerous. Do not inhale the fumes or get any on your skin or in your eyes. Always wear gloves and eye protection and old clothes. Keep your arms covered even if it is a hot day. And always observe the safety precautions on the container.

There are two main uses for hydrochloric acid: removing carbonates like calcite that often are the last minerals to form in a pocket and therefore obscure other mineral crystals, and the more aggressive removal of iron oxide rust stains (faster than oxalic acid). The former use is the most common and often produces staggeringly beautiful specimens because the calcite being dissolved protected the minerals underneath. Specimens of almandine from the Trumbull, Ct. diggings, or vesuvianite from the Goodall Q. in Sanford, Maine, or spinel or franklinite crystals in Franklin Marble are all cleaned in hydrochloric acid. If hydrochloric is being used to remove iron

oxides you should be careful that there are no carbonates in the specimen that you want to keep. The acid will dissolve them. Which is why, no matter what minerals you are cleaning, always test your cleaning agents on lesser pieces to make sure you will not ruin your best pieces. The basic procedure is:

First wash your minerals carefully in water to remove any loose sand and dirt and to make the acid last as long as possible (sand and dirt contain iron oxide and will exhaust your acid quickly).. Place your minerals in a large plastic container with a lid that can be tightly sealed. Again I prefer a five gallon joint compound bucket found at construction sites.

Let your specimens dry and move the container outdoors to an area with good ventilation. Pour in enough acid to cover the specimens. Always wear heavy rubber gloves and be very careful not to splash any acid on yourself.

Depending on what you are removing with the acid you will want to leave it in from 5 minutes to 5 days.

If you are etching carbonates/calcite off a specimen then you should check it after five minutes. Be careful not to inhale any fumes when checking the progress. When removing calcite or marble from specimens the action is very fast and active. Your bucket should be large enough to prevent the bubbling foam from overflowing.

If you are removing rust stains from quartz the action can take up to a day and is less energetic. When removing the "sphalerite" crust on quartz crystals from the Spring Glen Mine in Ellenville it is not uncommon to repeat three day sessions removing any loose material between each session. You can place the lid on the bucket to prevent children and animals from exposure (but provide a small vent hole for relieving gas pressure).

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According to Jerry Call, a commercial mine owner in Brazil and North Carolina, you should not leave the bucket in the light. He says this results in a yellow stain. Whether light is the source of the stain I cannot tell, but it is not uncommon for some residual acid/rust stain to remain after your first treatment. Then you need a second treatment in fresh, clean acid reserved for such a purpose. You will see the stain disappear quite quickly and you can remove your specimens for neutralizing and washing. This final batch can be diluted 1:1 with water. When diluting always add acid to water, NOT WATER TO ACID.

People neutralize the acid many different ways. I prefer to dissolve ordinary household baking soda in a bucket of warm water the immerse your specimens in it (after a brief pre-rinse). Let them sit in the baking soda solution for 15 minutes, then proceed with washing.

Because the acid has penetrated the specimen it is best to wash very thoroughly. I prefer the rule of thumb of washing three times the time the duration the specimen was in acid. If you just briefly dipped it for 5 minutes to remove some calcite then a 15 minute wash will be adequate. But If you left in your quartz specimens in for removing rust stains for a full day, then you should wash them for at least three days. The washing is essentially placing them in clean water and keeping the water clean as the acid diffuses out of the specimens. It is best if you can set a water supply on a slow trickle into the bucket to constantly provide clean water. Otherwise changing the water as often as possible will work. If you are washing for a full day then a water change schedule like this would be appropriate: change water every 15 minutes for an hour; then every hour for four hours; then every four hours for the rest of the day. (See washing instruction in the section on Oxalic Acid above).

As the acid is used up it will eventually turn yellow/green/brown. It can be used until it no longer is effective or until it starts to stain your specimens. If you are using it to dissolve

carbonates/calcite the acid will exhaust itself long before the color changes. You will see that it no longer actively dissolves the calcite. It should then be discarded. You can fully neutralize your old acid with crushed limestone or marble or with more baking soda. When it no longer fizzes then you can dispose of the acid safely. The limestone gravel found at the Limecrest Quarry in New Jersey is great for neutralizing the acid.

A last warning, if you are removing calcite from a specimen, do not dissolve all calcite. Often it may be the only thing holding the specimen together. A little calcite can provide a nice contrast and make it more aesthetic. In the case of the spinel crystals from the Limecrest Quarry, there are often alternating layers of spinel and calcite. They will crumble to powder if cleaned too long in hydrochloric acid. Also fluorescent willemite may turn powdery on the surface if cleaned in acid resulting in the loss of fluorescence.

### **Mechanical Methods**

This month we are reviewing mechanical methods of cleaning and preparing mineral specimens. By mechanical we mean using force of some sort to remove unwanted minerals or encrustations. Obviously this method has the potential or damaging the specimen by scratching or fracturing the crystals. As usual, care should be taken to test the methods on lesser specimens to see if there is any damage resulting from the process.

The mechanical cleaning of minerals ranges from a toothbrush to dental picks to ultrasonic cleaners to water guns to sand blasting. I am not going to discuss the more ordinary use of chisels and saws to trim a specimen.

### **Brass Brush and Dental Picks**

The first thing we do after a field trip is to wash the specimens and pray that they will cleanup like the minerals sold by dealers. And they never do. Dirt and pocket mud are often very tenacious and require more than running water. The first mechanical tool to try is a brass brush. They are

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available in hardware stores for use as a cleaning tool and for wood refinishers. Make sure you get brass bristles because brass is softer. Brass is between 3.5 and 5 on Moh's scale of hardness. In theory, you can scrub a specimen of any mineral harder than 5 and not damage the specimen. In reality though, you should always perform a test to make sure. I have used brass brushes on quartz successfully for many years without any damage. Occasionally on etched crystals a burnished appearance results but this usually disappears in later chemical treatments.

With this first wash there will always be sand and dirt deep in the crevices between crystals. These can be loosened with a set of dental picks. They come in a variety of shapes and sizes. Often a friendly dentist will give away his old ones. If you are not friendly with your dentist (who wants to be friends with their dentist?) and you cannot find them at your hardware store you can purchase them mail order from Woodworkers Supply (1-800-645-9292) item no. 862-028, set of four utility picks for \$8.95. These picks are steel and therefore harder. So be careful not to use a scratching stroke. Just loosen the dried, caked dirt in the crevices.

### **Ultrasonic Cleaner**

Obviously with delicate crystals scratching is not the problem, they will simply break off from the force. With delicate specimens we need to use an ultrasonic cleaner. These are simple stainless steel basins with piezoelectric drivers attached to the bottom. They often have built in timers and heaters. When turned on they vibrate the solution at ultrahigh frequency causing cavitation, the formation and collapse of bubbles. This cavitation scrubs off dirt and soluble minerals very fast without damaging delicate crystals. I can hear the skeptics out there saying that some minerals can be damaged, like herkimer diamonds (after all, aren't we supposed to pack them in temperature shielding sand or sawdust). Well this may be true, but in my experience (and this article is nothing

more than one person's methods learned through trial and error) I have only had one herkimer diamond damaged. (There was a large stress fracture in a 2" crystal that "popped" during cleaning.) But in terms of odds, I have cleaned thousands of herkimers and only that one broke.

The ultrasonic cleaner is the best way to clean zeolites from New Jersey. Especially delicate natrolite sprays or terminated pectolite. Unfortunately they are expensive. If you shop around for the best price you will pay around \$150.00 for every quart of capacity. I have a three quart unit that is more than adequate. Unless you collect a lot of large specimens, then a 1-1/4 quart unit will suffice.

I highly recommend getting a built-in heater. It is well worth the extra expense. It will heat the solution to just below boiling and keep it at that temperature. That is perfect for cleaning with oxalic acid (see Part I). The heat accelerates the action of the acid, but prevents the acid from boiling.

### **Sand Blasting**

Sand blasting sounds exotic but is more common than you would think. All of the pink tourmaline in purple lepidolite sold has been sandblasted to expose the harder tourmaline. The sand blasting removes the softer lepidolite very quickly and leaves a more natural appearance than chisels or scrapers. The new pink chalcedony from New Mexico being sold by Ray DeMark is all sandblasted. In its natural state it is rough and encrusted. A quick sandblast and only the harder quartz chalcedony remains. Amazonite from Colorado is also cleaned with sand blasting. These crystal often have a late growth without the blue-green amazonite color. The outer coating is blasted off with glass beads and then the surface is "polished" by sandblasting with a soft limestone powder.

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A sand blasting unit is not expensive. The basic setup can be purchased for around \$50.00. However the air compressor to drive the sand blaster is expensive. Unless you already have access to a 3.5 HP air compressor, then sandblasting is not for you. There are many different media that you can use in a sandblaster. Anything the consistency of table salt can be blown through the gun, wet or dry. Glass beads are readily available and are the hardness of quartz. But you can purchase many different hardnesses down to 3.5 on Moh's scale. The goal is to choose a media softer than the mineral you want to keep but harder than the mineral you want to remove.

I have found it works great for removing schist matrix from almandine garnet and staurolite crystals. There has been much discussion regarding the effects of sandblasting minerals including an article in Rocks and Minerals. The article points out that chalk dust with a hardness (H) of 3 has been found to abrade periclase (H: 5.5). The article points out that the force that you drive the media can result in damage to the specimen and recommends testing on a sample until you get the right balance of air pressure and correct media hardness.

### **Air Scribe**

This is a miniature reciprocating impact chisel commonly used by fossil preparers to expose fossils. ARO air scribe Model 8315 costs \$289.00 and comes with a medium carbide tip. Additional tips are available in fine to coarse for \$31.00 each. from Main Tool Supply, 55 Lafayette Ave., North White Plains, NY 914-949-0037 These tools reciprocate at 36,000 cpm and are very efficient at locally removing matrix. Fluorescent collectors find these are the best tools for removing calcite from willemite specimens because acid will etch willemite.

### **Water Gun**

Similar to a sand blaster, the water gun is used in the dry cleaning industry as a stain remover (they blast cleaning agent right through the fabric). The Krebs 5000 cost \$350.00 and is available from Aurora Mineral Corp. at 516-623-3800.

The action is a combination of sandblasting and ultrasonic. The gun creates a fine, high powered jet of water that will loosen most clays or dirt. It is very forceful though and not suitable for delicate minerals. The advantage is that you can put solutions other than water in the gun. In theory you could shoot oxalic acid through it. But since oxalic acid requires time to work the value is questionable. And remember the toxicity of oxalic acid, the last thing you should do is create a fine mist of oxalic acid that you could accidentally breathe.

A simpler and cheaper alternative to the water gun is to take your minerals to a do-it-yourself car wash. Lay out all of your minerals and for \$1.75 in quarters you can blast away almost anything with the water gun can, plus you can get a hot wax at the same time.

In conclusion, you do not have spend lots of money to clean your minerals. In many cases the brass brush is all that you need. Remember also that these mechanical methods are often the first in a many step process. You may start with brass brush then use hydrochloric acid and finish with oxalic acid.

### **The "Waller" Solution**

This method of mineral cleaning was first introduced to me by Roland Franke as a simple method of cleaning iron stain from minerals. Further research reveals different methods of using the basic solution.

As originally described by Roland the solution is made by dissolving in one liter of distilled water:

- 8.4g Sodium Bicarbonate
- 17.4 g Sodium Dithionite
- 5.9g Trisodium salt of Citric Acid (sodium citrate)

Once mixed, the minerals are immersed in the solution. The cleaning action can be accelerated by placing in an ultrasonic cleaner. This solution is not appropriate for indoor use because, once mixed, there is a strong odor of rotten eggs. Use only outdoors or in an area with proper exhaust venting. As usual read all precautions on the individual component packages.

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The solution is good for only about 24 hours and should be discarded after that. Since a liter of solution may be more than you need, the Geological Museum of Copenhagen (Hansen, 1984) suggests a variation - you can prepare a stock buffer solution of one liter water, 28 g sodium bicarbonate and 59 g sodium citrate (citric acid). Then when ready place your specimens in a container, pour in buffer solution to cover the top, then carefully sprinkle on top 1 g sodium dithionite for every 30 ml of buffer solution. After five minutes another 1 g of sodium dithionite is added in the same way. They also recommend sealing tightly with a lid and keeping at room temperature to avoid the formation of sulfides and sulfur.

If you have heavy iron stain a specimen may require several treatments in succession as the solution becomes saturated and loses effectiveness. After your piece is clean then wash in distilled water for an equal amount of time that the specimen was in the solution. Then in running (or regularly changed) tap water.

Apparently the solution works by reducing Fe<sup>+3</sup> to Fe<sup>+2</sup> and then dissolving Fe<sup>+2</sup> in the Citric Acid. The Sodium Bicarbonate balances the pH to be neutral. This last point means that theoretically you can clean any mineral in it without worrying about etching it. Practically though caution should be taken by testing on samples prior to immersing your best piece.

This is the conclusion of the articles on cleaning minerals. But it is not all that can be said on the subject. I have stayed clear of the more hazardous hydrofluoric, sulfuric, nitric acids and treatments for specialized uses such as cleaning native copper. If you are looking for more information, I highly recommend starting with John Sinkankas' books, "Field Collecting for Gemstones and Minerals" (originally published as "Gemstones and Minerals: How and Where to Find Them") and "Gemstone and Mineral Data Book," both published by Geoscience Press.

## References

Hansen, Mogen, Cleaning Delicate Minerals, Mineralogical Record, March-April 1984, pg. 103

This article and others can be found at Mr. Betts' web site: <http://www.johnbetts-fineminerals.com>

## Show Calendar

*(Continued from Page 2)*

### **October 6, 7, 8 - Prescott, AZ Prescott Gem & Mineral Show, 3rd Annual**

Yavapai County Fair Grounds

- Coors Event Building

10401 N. Hwy. 89A, Prescott Valley, AZ, 86314

Sponsored by: Prescott Gem & Mineral Club

Hours: Fri. & Sat. - 9 a.m.-5 p.m.,

Sun. - 9 a.m.-4 p.m.

Admission: \$2.00, seniors \$2.00, Children under 12 free with adult, Free Parking

Show Chair: Larry Jackson, P. O. Box 3923,

Chino Valley, AZ, 86323, 928-636-9188

E-Mail: [lpjack65@cableone.net](mailto:lpjack65@cableone.net)

### **Oct. 14 - 15 - Payson, AZ Payson Rimstones Rock Club, 9th Annual Gem & Mineral Show**

Tonto Apache Reservation

- Recreation Center on Hwy 87

Next to the Mazatzal Casino in Payson, AZ

Hours: Sat. - 9 a.m.-5 p.m. &

Sun. - 10 a.m.-4 p.m.

Admission: \$3.00, Children under 12 FREE

Free Parking

Contact Lee Norman, 1102 E. Cedar Lane,

Payson, AZ, 85541, 928-474-8777 or

[rock2006@aol.com](mailto:rock2006@aol.com)

### **Oct. 14 - 15 - Sierra Vista, AZ A Rock Rustler's Dream**

Elks Lodge, 1 Elks Way, Sierra Vista, AZ, 85635

Sponsored by the Huachuca Mineral & Gem Club and various businesses in the area

Hours: Sat. - 9 a.m.-6 p.m. &

Sun. - 9 a.m.-4 p.m.

Show Chair: Larry Nelson, 6932 E. Conestoga

Trail, Sierra Vista, AZ, 85635

Dealer Contact: Bill Jaeger, 3441 E. Astro St.,

Hereford, AZ, 85615, 520-803-6590

E-Mail: [mikea@theblueopal.com](mailto:mikea@theblueopal.com)

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## SERENE JAPANESE COMPUTER MESSAGES

Here are 14 actual error messages seen on the computer screens in Japan, some are written in Haiku. Aren't these better than "your computer has performed an illegal operation?"

The Web Site you seek  
cannot be located,  
but countless more exist.

Chaos reigns within.  
Reflect, repent, and reboot.  
Order shall return.

Program aborting:  
Close all that you have worked on.  
You ask far too much.

Windows NT crashed.  
I am the Blue Screen of Death.  
No one hears your screams.

Yesterday it worked.  
Today it is not working.  
Windows is like that.

Your file was so big.  
It might be very useful.  
But now it is gone.

Stay the patient course.  
Of little worth is your ire.  
The network is down.

A crash reduces  
your expensive computer  
to a simple stone.

Three things are certain:  
Death, taxes and lost data.  
Guess which has occurred?

You step in the stream,  
but the water has moved on.  
This page is not here.

Out of memory.  
We wish to hold the whole sky,  
but we never will.

Having been erased,  
The document you're seeking  
must now be retyped.

Serious error.  
All shortcuts have disappeared.  
Screen. Mind. Both are blank.

*Sent to the Editor via the Internet*

### Show Calendar

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#### **Oct. 28 - Phoenix, AZ**

#### **Family Day at the Museum & Arizona Mineral & Mining Museum Foundation Sale**

Arizona Mining & Mineral Museum  
1502 W. Washington, Phoenix, AZ, 85007  
Hours: 10 a.m. - 4 p.m.

Admission: Free

Demonstrations and activities for children will be sponsored by the Museum.

For event information, contact: Sue Celestian  
- 602-255-3795

For dealer booths, contact: Darrell Dodd  
- 480-575-5214

#### **Oct. 29 - Scottsdale, AZ**

#### **Rings & Things - Wholesale Bead Show**

Chaparral Suites Resort/Scottsdale  
- Conference Center

5001 N. Scottsdale Rd.

Hours: 1-5 p.m.

Contact: 800-366-2156

**[www.rings-things.com](http://www.rings-things.com)**



If you would like to list an event in this section,  
please contact the Editor, Lois Splendoria, at  
**[chimes@extremezone.com](mailto:chimes@extremezone.com)**.

Thank You

**LOIS SPLENDORIA**  
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**Mineralogical Society of Arizona**  
Founded 1935  
A Non Profit Organization  
[www.azminerals.com](http://www.azminerals.com)

**Purpose:** To promote popular interest in the various Earth Sciences, and particularly the fields of Geology, Lapidary, Mineralogy, and related subjects. ID badges are available from the Treasurer.

**Meetings:** 7:00 p.m. at the Arizona Mining and Mineral Museum, 1502 West Washington, Phoenix, Arizona. During September, October, and November of 2006, meetings will be on **THE SECOND TUESDAY OF THE MONTH**. See next column.

**Dues:** Families & Couples - \$20.00, Single Adults - \$12.00, Juniors (18 yrs. and under) - \$2.50. Please mail your dues to Sally Fiske, 42011 N. Astoria Way, Anthem, AZ, 85086.

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## First Class Mail

UPCOMING MEETINGS	
Temporary Change in Meeting Night Starting in September 2006	
Tuesday	September 12
Tuesday	October 10
Tuesday	November 14

## AFFILIATIONS

**Rocky Mountain Federation of  
Mineralogical Societies**  
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