

Lodestar

The Friendly Federation Founded to Serve



The Southeast Federation of Mineralogical Societies, Inc.

Volume XXXVI Issue One

January 2012

FROM YOUR PRESIDENT Jason Hamilton



Greetings fellow SFMS members, I'm excited to serve you, and I'm looking forward to a positive, productive and educational experience this year. My goal is to strengthen our bonds as a Federation by involving and instilling ownership in each of our member clubs. Without you and your clubs direct participation there isn't much need for the SFMS.

It starts with you and your participation in your home club/society. There are clubs that are losing the fun and excitement they once experienced while a few are prospering like never before. I know because over the past few years I've spoken with several clubs officers and committee chairs and directly witnessed the slow and gradual decline in attendance at our SFMS meetings and stronger attendance from thriving clubs. I've also seen less participation in competition displays at club shows. So the question is, "What makes being a part of a club, regional and national organization fun and exciting"? It's socializing and making friends with a common interest and the desire to share and educate! What you do and talk about with your fellow members and how you share with them or help sustain, grow and build your organization, defines your abilities. A stronger SFMS starts with a stronger member club.

So what can we do? I'm not talking about changing what the SFMS has to offer, but encouraging each member club to take advantage of what the SFMS has to offer to help strengthen your clubs activities. Make attending SFMS meetings a must for your club. Why? People from all across our region attend the SFMS meetings and the wealth of knowledge that is available just from making new friends is a huge plus. Many times a conversation springs to life just from someone asking a simple question and before you know it, you have many people joining around you waiting for the opportunity to share what they know about the topic. It's these opportunities that I personally enjoy the most. Learning and sharing what I know or being intrigued by what someone else has to share. This is true for almost any topic encountered, from lapidary work to rock hounding and often how to build a stronger club/ organization.

As New Year resolutions go, most are not kept up with or don't make much of an impact. This year, instead of making a resolution, I offer to make you a pledge I hope you will also make. "I pledge to help my club grow and

prosper and to protect the wisdom, happiness and fun we all enjoy." Hopefully part of this pledge will include your participation in SFMS events and reaching out to other clubs to strengthen bond across all our clubs. If we're not careful, we might accidently make some new friends and learn a little more along the way. A Chinese proverb I like on the topic of ownership and friends is, "Tell me and I forget. Show me and I remember. Involve me and I understand." I am looking forward to 2012 for the opportunity to serve, learn, grow and most of all to making new friends.

CARL'S EDITORIAL COMMENTARY



Our lead article is a discussion on geode formation in sedimentary rock and contains a partial list of their typical mineral content ranging from anapaite to zaratite with ramsdellite or szomolnokite somewhere in the middle. This article placed second in AFMS 2011 competition's advanced adult category.

Paul Turner recounts a novel way (i.e. trading) of acquiring rocks and minerals starting on Page 7.

SFMS's Education Committee has released details on the four Workshops scheduled for this year (see Page 8 and Page 10). Of particular note, workshop prices have increased by \$20 at William Holland and \$15 at Wildacres. Prices at William Holland Workshops are the same as other weeks since they have increased fees across the board.

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THE SOUTHEAST FEDERATION OF MINERALOGICAL SOCIETIES, INC.



A Non-Profit, Non-Commercial, Non-Political Organization and Regional Federation of the American Federation of Mineralogical Societies

PURPOSE:

To bring about a closer association of Clubs and Societies devoted to the study of Earth Sciences and the practice of Lapidary Arts and Crafts in the Southeast part of the United States.

OBJECTIVE:

To cooperate with similar Federations to promote public interest in the Earth Sciences and the conservation of natural resources.

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Articles for the Feb 2012 Lodestar are due by Jan 25, 2012.

DMC FIELD TRIPS

February 25, 2012: Burgin Quartz Mine, Norwood, NC. The Western South Carolina Gem and Mineral Society (Greenville, SC) is hosting a field trip to the Burgin Quartz Mine from 9:30 to 5:30 for quartz crystals. This is a new site for DMC member clubs. Fee is \$10/person. Contact is Bill Wetzel 864.306.6749.

Field trips are open to all members of clubs associated with the DMC program of the SFMS Field Trip Committee and to all members of SFMS clubs/societies who provide their membership with SFMS liability insurance. Because of insurance requirements, members of the general public are NOT invited to these or any DMC program field trips.

UPCOMING SHOWS

January 13-15, 2012: Largo, FL. Pinellas Geological Society 36th Annual Show. Location: Largo Cultural Center, Parkside Room. Contact: Hugh Sheffield at 727-894 -2440 or 727-707-3236.

January 15-16, 2012: DeLand, FL. 39th annual show; Tomoka Gem & Mineral Society; Volusia County Fair Grounds, State Rte. 44; Sat. 10-6, Sun. 10-5; adults \$4, children 12 and under free. Contact Florence D. Nordquist (386) 226-4032; e-mail: fndesign@aol.com; Web site: www.tomokagms.org

January 28 & 29, 2012: Panama City, FL. Panama City Gem & Mineral Society 21st Annual Show. Location: Bay County Fairgrounds. Contact: Joseph Schings at 850-871-1846 or by email at mojo3002@comcast.net.

February 11-12, 2012: Merritt Island, FL.- The Central Brevard Rock & Gem Club. Symphony of Gemstones Festival, Kiwanis Island Park, 951 Kiwanis Island (on Hwy 520 west of Walmart). Hours: Sat & Sun 10-5. Adults \$4/day. Demos, door prizes, & lapidary exhibits. Contact show chair Ray Huntington 321-799-8536.

February 25, 2012: Lakeland, FL. Imperial Bone Valley Gem, Mineral & Fossil Society, 8th Annual Gem, Mineral & Fossil Show & Sale; Sat: 10-4, First Presbyterian Church, 175 Lake Hollingsworth, Lakeland. Show contact: Jim Reed, 863-644-6665 Email contact: rocks57@tampabay.rr.com <http://www.bonevalley.net>

February 29– March 1, 2012: Panama City, FL. Panama City Gem & Mineral Society. Bay County Fairgrounds, 2230 E. 15th St. Contact: Joseph Schings, 850-871-1846 or e-mail: mojo3002@Comcast.net

March 2-4, 2012: St. Petersburg, FL - The Suncoast Gem & Mineral Society. 42nd Annual Gem, Jewelry & Mineral Show and Sale, Minnreg Building 6340 126th Ave. N., Largo, FL 33773. Hours: Fri & Sat 10-6, Sun 10-5. Free parking. Contact Bill Schmidt, Show Chair, 727 822-8279 or e-mail contact SGAMsgemshow@gmail.com. See <http://www.sgams.com/Shows/show.html>

March 24-25, 2012: Tampa, FL. "Fossil Fest 2011"; Tampa Bay Fossil Club; Florida State Fairgrounds, US 301 and I-4; Sat. 9-6, Sun. 10-4; fossils, artifacts, gems, minerals, shells, exhibits, "how to" seminars, kids' games, fossil mine, raffles, door prizes, silent auction; contact Barbara Fite, (813) 977-0892; e-mail: bfite@tampabay.rr.com; Web site: www.tampabayfossilclub.com

April 28-29, 2012: Memphis, TN - Memphis Archaeological and Geological Society. Memphis Mineral, Fossil, Jewelry Show "The Earth Wide Open". Memphis International Agricenter, Expo Center, West Pavilion & A and B-wings 7777 Walnut Grove Rd. Memphis, TN. Hours: Sat 9-6 and Sun 10-5. Adults \$5.00, Children 12 and under \$2.00. Scouts free. Portion of admission benefits the Ronald McDonald House of Memphis. Contact W.C. McDaniel 901-274-7706 or email w.c.mcd@att.net See EarthWideOpen.com.

Please Note

To ensure your show is listed here, send a written notice to the Lodestar Editor: Carl Talbott, 216 Spring View Drive, Murphy, NC 28906 or e-mail dtalbott@bellsouth.net. SFMS clubs/societies are also encouraged to register their event listings on the SFMS website at: www.amfed.org/sfms.

MINERALOGY

Geodes 2: Geodes in Sedimentary Rocks

by Bob Carnein, Lake George Gem & Mineral Club

From: *LGGMS Newsletter*, 4/2010

(2nd Place – AFMS Original Adult Articles Advanced)

In the March newsletter, we looked at geodes that occur in igneous rocks. This month, we will think about sedimentary geodes and the minerals that have been described in geodes of both types. As is usual with most scientific topics, explaining the origin of geodes isn't simple. But don't despair; bear with me while we explore some geology and a little bit of chemistry.

Although geodes are found in sedimentary rocks of various ages and types, by far the largest U.S. deposits occur in carbonate rocks (dolostone and limestone) of Mississippian age (about 350 million years). These are found in a broad band extending from eastern Iowa into adjacent Illinois and Missouri, and in similar-age rocks in Indiana, Kentucky, and Tennessee. There are even some occurrences in Georgia and Alabama.

The Mississippian geodes are concentrated in layers of the Warsaw Formation and other carbonate rocks of the same age. It and the Ramp Creek Fm. of south-central Indiana include geode-rich zones that have supplied literally millions of geodes to collectors. In some places, creek beds are clogged with "geodes", most of which are actually solid quartz nodules. Local residents sometimes even use them to construct walls and houses.

Good exposures of the Warsaw beds near Keokuk, Iowa, result in some collectors using the common name *Keokuk geodes*, or simply *Keokuks*. Quartz is the most abundant mineral, and the geodes range from an inch or so to nearly three feet across. Their shapes vary from nearly spherical to irregular or flattened in the plane of layering in the enclosing carbonate rocks. Some resemble a head of cauliflower.

Commonly, rock layers immediately above the geode zone contain abundant fossils and fossil fragments, suggesting those rocks formed in an environment of shallow, turbulent, clear sea water with plenty of oxygen and nutrients. Fossils include mollusks (clams, snails, and cephalopods), echinoderms (sea urchins, crinoids, and blastoids), brachiopods, horn corals, and sponges. Most of these animals "filter" food particles suspended in the water. However, the geodes themselves typically occur in layers of finer grained dolostone with relatively few fossils. These rocks probably formed in somewhat deeper, quiet water lacking abundant oxygen.

Even today, controversy surrounds hypotheses on the origin of the Mississippian geodes of the Midwest. I will summarize two hypotheses, but you need to realize that we have here a textbook case of multiple working hypotheses—a fundamental principle underlying most geological research. The idea is that several researchers come up with competing explanations for how a given feature (in this case geodes) forms. These researchers then "battle it out" in peer-reviewed publications and by presenting their results at meetings. Eventually, a consensus develops among researchers, and one or two hypotheses win approval. In the case of the origin of sedimentary geodes, the two "theories" summarized below may both be correct.

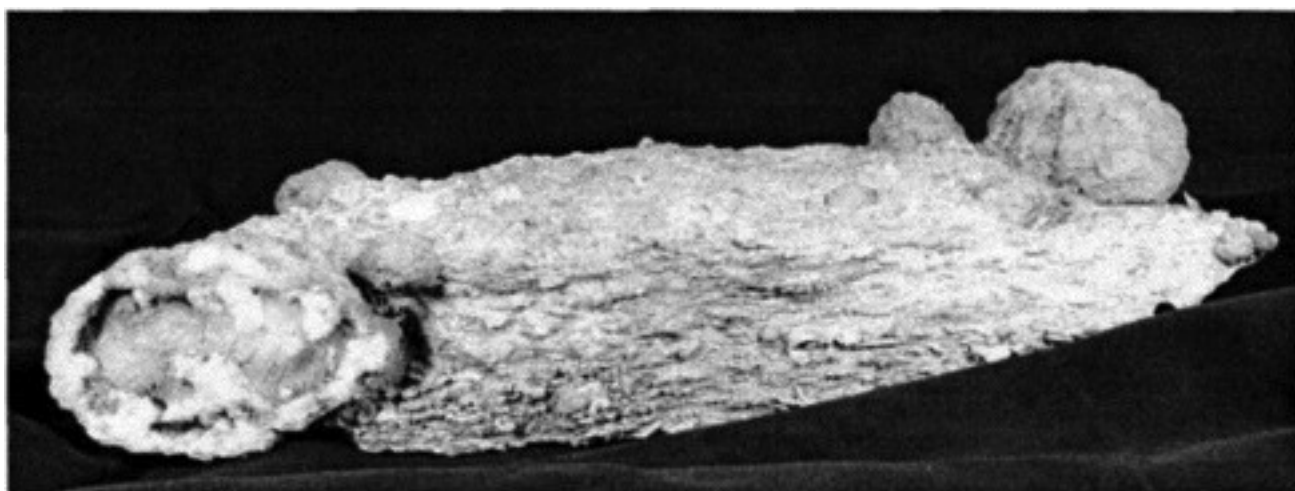


Outline of the Illinois basin, a major Midwestern sedimentary depression. aapg.org

Theory 1. The first theory suggests that geodes form by replacement of anhydrite (CaSO_4 , calcium sulfate) nodules by silica. It is well summarized in Barwood and Shaffer (see references below). Imagine a Mississippian shoreline area in what is now the Midwest (and extending along the margin of the Illinois basin 350 million years ago). The climate is hot

and dry, similar to that in parts of the Persian Gulf today. Near the shore, wave action keeps the water stirred up and provides abundant oxygen. Marine invertebrate animals (most of which depend on suspended food particles for sustenance) thrive in this environment. Intense evaporation raises the salt content of the water, and brines form. (A brine is a solution that is saltier than "normal" sea water.)

In shoal (shallow) areas, waves break up shelly material, forming a coarse shell hash. The brines work their way downward through this coarse carbonate sediment and outward toward the center of the basin. As these oxygen-rich brines work their way out into the deeper, oxygen-starved water of the Illinois basin, they lose oxygen and encounter finer carbonate sediments deposited in deeper water. Here, a crucial chemical change occurs. The limestones, which are made of the mineral calcite [CaCO_3], are converted to dolostone, which is made of the mineral dolomite [$\text{CaMg}(\text{CO}_3)_2$]. Magnesium ions in the brines substitute for half of the calcium in the limestone. This process releases calcium ions into the brines, and this "extra" calcium causes the precipitation of anhydrite [CaSO_4] as nodules on the sea floor.



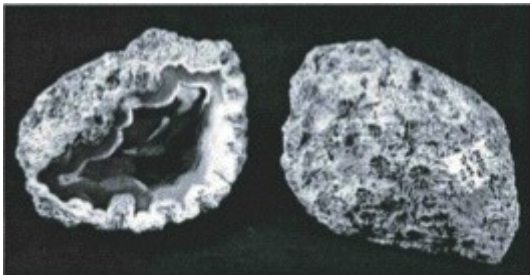
Unusual small geodes in a "shell hash" bed, from near Bedford, IN (author's collection). Note resemblance of right-hand geode to a fossil "sea urchin."

As this process proceeds, the lack of oxygen, combined with other features of the chemical environment, causes some of the anhydrite around the outsides of the nodules to break down. This does two things: it makes sulfur available to form sulfide minerals such as pyrite; and it raises the pH of the water (makes the water less acidic). Silica in sponge spicules, volcanic ash, or other sources is more soluble in water of higher pH, so, as the pH rises, silica dissolves into the water and becomes available to replace anhydrite and limestone. Deposition of silica on and in the rinds of anhydrite nodules forms a gelatinous layer that is the beginning of geode formation (it becomes the chalcedony layer that forms the outer shell of most Mississippian geodes). Over time, water seeping through the silica gel dissolves out the remaining anhydrite in the core of the nodule, at the same time depositing additional silica (forming a layer of coarser quartz crystals) and other geode minerals (including pyrite and other sulfides). Voila! You end up with a layer of fine grained dolostone peppered with geodes. In deeper water, the fine grained carbonate rocks are partly replaced by chert, and in shallower water, the carbonate rocks are coarse grained and contain little silica. As the environment shifts, geode and chert formation will shift too. As a result, the distribution of geodes is patchy, rather than continuous.

Theory 2. Some geodes are thought to be "geodized" fossils or "exploded" fossils. One hypothesis (see Smith, 2007) suggests that, instead of anhydrite nucleating to form a nodule (as above), it nucleates in a cavity inside of a dead invertebrate. This may occur because the decay of organic material uses up oxygen, producing local conditions like those described above. Quiet water is probably required for this to work.

As the anhydrite grows, the host fossil "explodes", in some cases fragmenting to the point where it's barely recognizable. The anhydrite may even extrude through the side of the fossil. Then, silicification takes over, converting the anhydrite-filled fossil into a geode (again, as above). All gradations, from easily recognizable silicified fossils to badly distorted examples, are known from rocks in Indiana (Beanblossom Cr., Brown Co.), Iowa (near Keokuk), Kentucky (near Louisville), Illinois (near Hamilton), Ohio (near Hillsboro), and Tennessee (near Nashville).

In a slightly different category, I would be remiss not to mention the "geodized fossils" from near Tampa and Fort Drum, FL. Near Tampa, Miocene colonial corals have been replaced by chalcedony, forming the beautiful "agatized" geodes commonly seen at mineral shows. At Rucks Pit, near Fort Drum, clams of the genus *Mercenaria* and other fossils are filled with gold-colored calcite crystals that are very fluorescent. Finally, clams and other fossils of the Crimean peninsula are famous for rare fillings of anapaite, barite, rhodochrosite, and vivianite.



Chalcedony-filled geode from near Tampa, FL.
(author's collection)



Fluorescent calcite in bivalve, Rucks Pit,
FL. Appalachee-minerals.com

At the end of this paper, I have listed some references that you can consult to read more about these hypotheses, plus several more. Some are readily available and non-technical; others are relatively advanced.

Minerals of Geodes. If you are a mineral collector, you might be interested to know what minerals, besides quartz and chalcedony, are reported to have been found in geodes. In the list below, I haven't tried to separate the minerals of igneous geodes from those of sedimentary examples. Having originally thought that 20 or 25 minerals might be found, I was surprised at the number. Some of the examples are definitely identified, while others are reported but not confirmed. Here's the (by no means complete) list:

Anapaite	gypsum	rancieite
Ankerite	hematite	retgersite
Apatite	hollandite	rhodochrosite
Aragonite	honessite	romanechite
Aurichalcite	jamborite	rutile
Barite	jarosite	siderite
Beidellite	kaolinite	smithsonite
Bimessite	magnetite	smythite
Calcite	manganite	sphalerite
Celestine	marcasite	sulfur
Chalcedony	millerite	szomolnokite
Chalcopyrite	mordenite	tenorite
Copiapite	nontronite	todorokite
Cryptomelane	pyrite	violarite-polydymite
Dolomite	pyrolusite	vivianite
Fluorite	pyrrhotite	wurtzite
Galena	quartz	zaratite
Goethite	ramsdellite	

In addition, gas, mercury, opal, and water have been reported.

References and Additional Reading:

Barwood, H.L., and N.R. Shaffer, accessed 2010, Observations on silicification in geodes from the Mississippian Sanders Group of Indiana and Kentucky: <http://spectrum.trov.edu/~barwood/indianageode.htm>

Chowns, T.S., and J.E. Elkins, 1974, The origin of quartz geodes and cauliflower cherts through the silicification of anhydrite nodules: *Journal of Sedimentary Petrology*, v. 44, p. 885-903.

Cross, B.L., and J.C. Zeitner, 2006, *Geodes—Nature's Treasures*: Baldwin Park, CA, Gem Guides Book Co.

Douglas, D., 1960, Changed and false fossils: *Earth Science*, v. 24, p. 198-205.

Finkleman, R.B., 1974, A guide to the identification of minerals in geodes from Chihuahua, Mexico: *Lapidary Journal*, v. 27, n. 11, p. 1742-1744.

Fisher, I.S., 1977, Distribution of Mississippian geodes and geodal minerals in Kentucky: *Economic Geology*, v. 72, n. 5, p. 864-869.

Frazier, S. and A., 1999, Geodes: the "hole" story, pts. 1 and 2: *Lapidary Journal*, Aug. and Sept., p. 45; 53.

Hayes, J.B., 1964, Geodes and concretions from the Mississippian Warsaw Formation, Keokuk region, Iowa, Illinois, Missouri: *Journal of Sedimentary Petrology*, v. 34, n. 1, p. 123-133.

Kappele, W., 1996, Kentucky fossils and geodes: *Rock and Gem*, v. 26, n. 8.

MacFall, R., 1974, Florida coral—treasure from the sea: *Lapidary Journal*, v. 28, n. 3, p. 490-495.

[Editor's Comment: Participants in the Dixie Mineral Council's recent field trip to the Ft Drum area (looking for fossil clam and whelk shells, shark teeth, and bone fragments) may find this article of interest.]

Trading Minerals

Paul Turner

Emerald City Rock and Gem Club, Greenwood, SC

It was about 4 yrs ago when I was working on a renovation project for our local Museum. One of the exhibits was to be a fluorescent exhibit. Being a small town Museum and funding being what it was I decided to field collect rocks for this display. In my research one site came up as a place to find great fluorescent rocks: Franklin NJ. One problem here, I live in SC.

Well the Museum wasn't going to pay for me a trip to collect them (I asked and they laughed). The problem still remained that we needed rocks. I decided to ask someone to trade with me. I did some research and found a list of clubs in NJ. I sent an email to the club president and explained what I was doing and said that if someone could send me some fluorescents I would send them some rocks from Graves Mtn mine in Ga. I figured that is was likely that most people in NJ would not drive to Ga to collect as I would not drive to NJ to collect.

It was a few weeks before I got a call from a gentleman in NJ asking about the trade. We discussed the particulars of the trade, traded addresses and hung up. A few days went by and a nice box of Sterling Hill and Franklin specimens were waiting for me when I got home. I was like a kid on Christmas morning. The specimens were beautiful.

(Continued on Page 9)

2012 SFMS WORKSHOP CLASS SCHEDULE

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204 37th Ave North, #250
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William Holland Directors, Denise & Carl Talbott

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Email: dtalbott@bellsouth.net

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William Holland Registrar, Joe & Addy De Pietro

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Mysticalmelts@verizon.net

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The intermediate and advanced classes listed with an asterisk (*) require some prior experience by the student. Experience in a class provided by your local club, Workshop class, or self study may be enough. If you're interested in any of these classes, please fill out an application (see Lodestar Page 10).

**SESSION ONE - WILLIAM HOLLAND
SUNDAY, June 10-16, 2012**

Beading, Seed	Ron Midkiff
Cabochons	Anita Westlake
Casting	John Iacullo
Chain Making	Case Leeser
Enameling	Bob Mattingly
Fused Glass	Addy DePietro
Lampwork	Ann Royer
Mineral ID	Scott Forward
Opals	Sarah Lee Boyce & Carl Talbott
Silver I	Allen Jewell
Silver Filigree	Paige Warrick & Shannon Stafford
Wire I	Bobbi Shumack
Wire II	Ruth Ann Moore

**SESSION TWO - WILDACRES
MONDAY, August 20 - 26, 2012**

Cabochons	Anita Westlake
Digital Photography	Ron Gibbs
*Metalsmithing - Advanced	Jeff Sheer
Polymer Clay	Carolyn Stearns
Raku Beads	Jim Cullen
Scrimshaw	Bill Weitzel
Silver Cold Connections	Charlotte Caughman
Wire, Beginning	Rowan Rose

**SESSION THREE - WILDACRES
MONDAY, September 10 - 16, 2012**

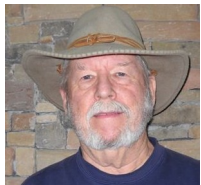
Beading 4 Holidays	Barbara Green
Cabochons	Pat Davis
Chain, Beginning	Marilou Hillenbrand
Faceting	Steve Hillenbrand
Fused Glass, Beginning	Rich Dillon
Mineral ID	Scott Forward
Silver, Filigree	Shannon Stafford
Stone Setting	Don Roberts
Wire for Beaders	Leslie Wayment

**SESSION FOUR - WILLIAM HOLLAND
SUNDAY, October 7-12, 2012**

Beading, Seed	Barbara Green
Beading	Becky Patellis
Cabochons	Jerry Mason
Casting	Joe DePietro
Channeling	Don & Ann Monroe
Lampworking	Cindy Reed
Mineral ID	Scott Forward
Opals	Sarah Lee Boyce & Carl Talbott
Silver I	Mac Thornton
Silver Filigree	Paige Warrick & Shannon Stafford
Wire I	Diane Mason

BE SAFE – BE WELL

Don Monroe & Linda Behr - Safety Committee

Eyes

Most of us are blessed with two eyes at birth and, hopefully, we have no shortcoming or problems. It is possible, however, that we can have problems arise. Some fairly common problems such as Glaucoma or Cataracts can occur. These problems usually will become evident at maturity or in later years. First and foremost locate a good ophthalmologist and visit this person on a regular basis.

I have just completed surgery on both of my eyes to remove cataracts. This procedure has progressed in the last few years to the point that it is relatively simple and straight forward. It is often done in less than a day and does not required an overnight hospital stay. It is mostly pain-free and the worst aspect is taking many, many, eye drops.

Glaucoma is a problem that I have not encountered so I cannot address this one with any degree of confidence.

When I was young I wore sun glasses most of the time. I well remember being cautioned by my elderly relatives that wearing sun glasses was bad for my eyes and could be habit forming. Now current advice seems to be that, in fact, wearing sun glasses will protect your eyes from damage caused by sun light and can be good for you.

There are many other things that can cause eye damage. Wind-blown dust can cause a lot of problems which is another reason for wearing sun glasses. Using a commercial eye drop solution can do much to wash dust out of your eyes. Do consult your ophthalmologist for his recommendation as to which brands are best for you.

All of us who use any type of shop equipment should definitely develop a habit of using goggles or some form of eye protection. Grinding is certainly risking the possibility of getting grit or metal particles in our eyes, and the consequences can be disastrous. There are things that I regard as being more fun that yard work but I will do some of it. Cutting weeds, brush, and fire wood are necessary at our place, and it guarantees peace and tranquility in the family if I do my share. I will bet that many of you do your share and do it with a smile.

Trading Minerals

(Continued from Page 7)

The trade went so well I decided to try again for my personal collection. I had joined a few websites that had discussion forums and asked a few members if they wanted to trade. Got a few more responses and those trades went real well. In fact, I can't say I ever got a bad trade. I have traded with people in Ca, NJ, Me, Ok, Italy, WV, and NC.

The following are a few steps I have used to establish trades:

1. Join a website discussion group. Many will have an off topic discussion or "Trades" section. Some of the ones I use are McRocks, Rockhoundstation1, and Mindat.
2. Contact clubs in other states. I use Bob's Rock Shop (online) to find the contact info for these. You can also go to the different regional affiliates like the Southeastern Federation of Mineralogical Societies for club contact information.
3. Use pictures to help get an idea of what you are sending and what you are getting. I hate to think someone felt I cheated them.
4. Use the "If it Fits it Ships" flat rate shipping boxes from the USPS. Medium is \$10.95 and large is \$14.95. I have sent upwards of 27 lbs in the large box. I usually skip the insurance as they are rocks and I can always go get more. (wait till you see the look on the tellers face when you tell them it's just rocks)
5. Label your specimens. Include the mine, mineral or rock names, locality and any extra information necessary. (ex. Franklinite and Calcite, Franklin NJ, Fluorescent Calcite-red)
6. Pack your items well. If a mineral is fragile it may not be a good idea to trade it. Use lots of newspaper, foam, old clothes or other media to insulate your specimens. It's up to make sure the minerals arrive in the condition you described them.
7. Enjoy your new specimens. I encourage everyone to trade. It's a good way to build friendships, learn the geology of different places, and grow your collection.

2012 SFMS WORKSHOP REGISTRATION FORM

SESSION: ◇ William Holland June 10-16 ◇ Wildacres August 20-26 (check one) ◇ Wildacres September 10-16 ◇ William Holland October 7-13
ACCOMMODATIONS: ◇ Lodge ◇ Day Student ◇ Campground (Wm Holland only)

1 NAME _____
 SFMS SOCIETY/CLUB (spell out) _____
 Address _____
 City _____ ST__ ZIP _____ Email _____
 Home Phone (____) _____ Cell Phone (____) _____
 Have you attended any other SFMS workshops? _____
 Do you want to be placed on standby if your class is filled when we get your application? Y N

#2 (Spouse/Friend) NAME _____
 (If club affiliation, address and phone info is different than above, please list on the back.)
 Have you attended any other SFMS workshops? _____
 Do you want to be placed on standby if your class is filled when we get your application? Y N

Single applicants only: Do you have someone you want to share a room with? If yes, whom? _____ Age Group (used to determine a compatible roommate) 20-30 31-41 42-52 53-63 64-74 74 & up Are you a smoker? Y N Are you an early riser? _____ or a night owl? _____
--

Special Needs: Do you need a handicap room? Y N Can you negotiate stairs? Y N (elevator at Wm Holland only) Dietary: Diabetic _____ Other _____ Anything else we need to know? (i.e. snore loudly, can't walk up hills, etc.) _____ _____
--

Campers: (Wm Holland only) Type _____ Length _____ (40 ft. max.)

Class Selection

**** PLEASE LIST ALTERNATES****

First Choice	1 st time taking class?	Second Choice	Third Choice
Student #1	Y N		Y N
Spouse #2	Y N		Y N

Workshop Tuition

NOTE: You are encouraged to pay the full amount at registration time.

However, a \$25 non-refundable deposit per person must accompany your registration. If you send a \$25 deposit the remaining balance is due one month before the beginning of class.

- * Tuition Cost per Person:
- * William Holland:
 - * \$330 double occupancy or \$490 single.
 - * \$160 day student or camper.
- * Wildacres:
 - * \$345 double occupancy or \$505 single.
 - * \$175 day student.
- * Non members add \$50.00 to all Tuition fees

William Holland Campsite Fee: \$140 per week. No meals are included for day students or campers. They are available from and payable directly to the facility.

Cancellation Policy: There is a non-refundable \$25 administration fee. Other refunds are at the discretion of the director and Education Chair.

Materials/Class Fees: THE INSTRUCTORS MAY CHARGE A MATERIALS FEE FOR THEIR CLASSES. THIS MATERIALS FEE IS NOT PART OF THE WORKSHOP TUITION.

Mail Application & Deposit to appropriate workshop Registrar.

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Uniform Rules

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