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Ammonites

by Mike Baldwin



Ammonites became extinct at the end of the Cretaceous period (65 million years ago). Ammonites were cephalopods which once swam in shallow, Cretaceous seas. In today's oceans, the closest living relative to the ammonite is the chambered nautilus. Like the chambered nautilus, the ammonite's ability to swim was due to the unique construction of its shell. The shell contained many air filled chambers, called the phragmocone. The "walls" of each chamber, called septa, were penetrated by a tubelike structure called a siphuncle. The air in the chambers was regulated through this "tube". Air in the chambers provided buoyancy, which allowed the ammonite to float. The ammonite lived in the last chamber, which ranged in size from a half of a whorl to one and a half whorls of the shell. The animal protruded out the end of its shell through the aperture.

REF: "What Is An Ammonite?"; http://www.fossilfanatics.com/What_is_an_Ammonite.html; 01 June 2005. Information and image used for educational purposes under the provisions of the Fair Use Act of 1976.

June MAGS events

- 02 6:30p MAGS Board Meeting • Blue Plate Café, 5469 Poplar Avenue
- 10 7:30p MAGS Membership Meeting • Shady Grove Presbyterian Church 5535 Shady Grove Road • Bring refreshments and displays
- 16 7:00p MAGS Fossil Section Meeting at the home of Roger Van Cleeef
- 17 6:00p MAGS Night-time Rock Swap at Randy and Susan Thomas' [see page 3]
- 18 8:00a MAGS Field Trip to Frankstown, MS [see page 2]
- 18 10:00a DMC Field Trip to Chunky Gal Mountain, NC [see page 6]

Our June program will be presented by David McAlister will be presenting "Lapidary Arts: Cutting and Polishing Slices". The MAGS Youth will be taking a look at the Tennessee state rock and gem.

2005-2006

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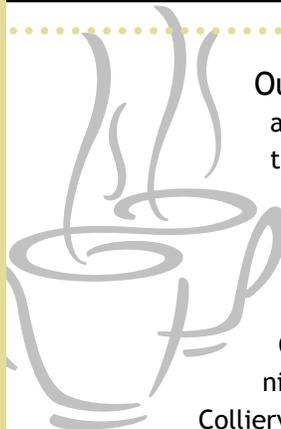
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President's corner: WC McDANIEL



Our first rock swap of the year, at Lou White's, was a big success. The thunder boomers and rain clouds departed and about 25 people sold, bought and swapped rocks. A side trip to the food table was a welcomed and enjoyable break. Our next swap will be on a Friday night, June 17, at the Thomas' in Collierville. This is a departure from the usual Saturday, so help us make this new adventure a big success.

In April John Jones, a long time MAGS member and former President died. John was very talented in lapidary, especially cabochons. His collection of Tennessee Paint Rock Agate and Jeffery Quartz are of museum quality. Up to the very end John found a way to get to his workshop and was eager to check out a petrified wood site in Mississippi. He contributed greatly to the show with cabochon demonstrations and will be missed.

Our theme display for June will be show buys and finds and items you made from your show buys. Members are encouraged to participate in the theme and regular displays. Jim McNeil will demonstrate carving in our activity area.

Show tickets are due. If you have not been contacted or paid please do so at the June meeting. In addition if you contributed to the show in any way please come to the June meeting for a special gift. **WC**

June MAGS field trip

LOU WHITE: We have a couple of possibilities for the June MAGS field trip. If details can be worked out, we are trying to get into the Vuncan Quarry at Black Rock, Arkansas again. We had a great time last time we were there. Going to Black Rock will depend on how busy the mine is in June. If we can't do that, we are planning a trip to Frankstown Cretaceous Fossil Park (20-Mile Creek) to hunt for sharks' teeth, ray teeth, turtle shells, and maybe even a few dino bones. We always have a great time at Frankstown too. The date for that trip is Saturday, June 18. To sign up for this trip, or to get more information, come to the June membership meeting. You can also call or email me for details. So mark your calendar for June 18, and don't miss the fun.

June displays

Display theme for June

The June membership meeting display theme is “show buys and finds and items you made from your show buys”. You don’t have to bring your entire collection for a themed display. Just bring your favorite ones. Everyone’s entry will be placed on the same table. Themed displays are not for competition. They are just for information and the enjoyment of everyone at the meeting.

Competitive displays

Bring your favorite collection in June for the display competition. A vote will be taken at the end of the membership meeting to determine who will be the adult winner and the youth winner. Winners receive special gifts at the end of the year.

2005 dates to remember

	Board Meeting	Membership Meeting	Due Date for Newsletter Articles
Jun	2	10	—
Jul	Jun 30	10	June 19
Aug	4	12	July 24
Sep	1	9	August 21
Oct	6	14	September 25
Nov	3	11	October 23
Dec	1	9	November 20

June adult program

IDAJEAN JORDAN, VP-PROGRAMS: Don’t miss the June program, presented by MAGS member, David McAlister. David will be sharing his knowledge of lapidary arts as he presents “Cutting and Polishing Slices”.

First night time rock swap set for Friday, June 17 from 6 until

SHERRI BALDWIN, MAGS DIRECTOR-HISTORIAN: Follow the map below to find your way to the home of Randy and Susan Thomas on Friday, June 17, 2005 for the first MAGS night time rock swap. A great big thank to the Thomases for opening their backyard and allowing us to invade with our rocks and goodies. If you plan to bring rocks to swap or sell, don’t forget to bring a folding table [card table works great] for your wares. Whether you plan to set up shop or not, you will still need to bring folding chairs and drinks enough for your crew and a pot luck dish large enough to share with everyone. Your dish can be anything from a salad, to a side dish, to chips and dip to dessert. MAGS will provide the main dish, paper plates, napkins and cutlery. The Thomases live at 650 Winleaf Cove in Collierville, TN [853.5543]. The swap begins at 6:00 and lasts until we’re too tired to party.



Stay tuned to **MAGS Rockhound News** for future rock swaps in a neighborhood near you . . . or maybe you’d like to save a little gas this summer by hosting a rock swap at your house. Then you wouldn’t have to drive to get there.

The May Fossil Workshop

JENNIFER BALDWIN: The first MAGS Fossil Workshop at Roger Van Cleef's house in April was a great success. There were so many MAGSers interested in joining that the group was divided into a Tuesday night group and a Thursday night group. My family and I are in the Thursday night group. Our May meeting was held on May 19th. After taking a look at some of the great fossils found over the years from 20-Mile Creek in Mississippi, we journeyed outside to sift through a few scoops of material taken from 20-Mile Creek. The screen system that we were introduced to was comprised of three screens, one nested inside another. The top screen was made of a very wide gauge, the middle screen was narrower and the final screen was very fine. We took turns screening the material and searching for fossils. The larger sharks' teeth settled in the top screen and the smaller ones in the other two screens. We found teeth ranging from about 3/4 of an inch to micro-fossils. The members in attendance for the Thursday meeting were Roger Van Cleef, Mike, Sherri, Jennifer and Kelly Baldwin, Idajean Jordan, Nancy Folden, WC McDaniel, and Marvin Nutt. In June, we will begin to learn how to clean and repair fossils. The Tuesday group will meet on June 14 and the Thursday group will meet on June 16. Both times are 7:00 until 8:30. Please call Roger if you need further information, 901-794-1641.

Sunshine and caring

MELBA COLE, MAGS MEMBERSHIP DIRECTOR:

Best wishes for a quick recovery to Dr. Prather, Maxine Fulghum and George Fulghum.

It is with sadness that we pass on the news that Martha Rannels, former MAGS member, passed away in mid-May.

If you have news about MAGS members, please send them to me at JMelCole@aol.com or give me a call at 382-0344.

June program

IDAJEAN JORDAN, VP-PROGRAMS: Don't miss the June program, presented by MAGS' own David McAlister. David will be sharing his lapidary skills with us as he presents "Cutting and Polishing Slices". Last year David presented a very informative program on "tumbling".

2005 theme displays

Month	Display theme
June	Show buys/finds, items made from your show buys
July	Lake Superior Agates
August	No displays, rock swap
September	Missouri Minerals
October	Geodes
November	Gravel Fossils
December	No displays, Christmas party

June Birthdays

MELBA COLE: Birthstone for June is Opal.

- 5 - Allen Thom
- 7 - Edward DeVoe, Jr.
- 13 - Sherri McCalla
- 15 - Matthew Huber
- 16 - Ann Williams
- 17 - Faith Britt
- 17 - George Fulghum**
- 17 - Don Givens
- 19 - Norman Daniels
- 20 - Melissa Johnston
- 20 - Vivian Sharpe**
- 21 - Allen Helt
- 25 - Doris Johnston
- 25 - Michael Scilken
- 29 - Jennifer Baldwin
- 29 - Cornelia McDaniel
- 30 - Sean DeVoe
- 30 - William Sanford

Bold type indicates lifetime members.

Website statistics for May

MIKE BALDWIN, MAGS WEB COORDINATOR:

Here's a brief look at our website [www.memphisgeology.org] from 01.21.02 through 05.31.05:

- Visits 116,241
- Hits 517,119
- Avg visits/day past month 306
- Top pages in the past 30 days:
 - Home page 656 hits
 - TriangulumCluster2005.pdf 395 hits
 - rocknews0505.pdf 368 hits
 - argon2003.pdf 328 hits
 - rocknews1002.pdf 313 hits
 - explorer0203.pdf 301 hits
 - explorer0703.pdf 288 hits

A visit is every time someone comes to our website. A hit is every page viewed once a user enters our website.

WC McDANIEL: As the summer vacation season arrives it might be a good idea to include some time at America's Fossil Parks. The June edition of "Rock & Gem Magazine" provided a description of several:

1. **Petrified Forest National Park, Arizona**—America's "oldest" fossil park. The prime feature is the display of Araucarioxylon trees.
2. **Dinosaur National Monument, Utah**—Has more species and dinosaurs on display than any other dinosaur locality on earth.
3. **John Day Fossil Beds National Monument, Oregon**—large display of plant and animal fossils ranging in period from 6- 40 million years.
4. **Fossil Butte National Monument, Wyoming**—contains fossils from about 50 million years ago. Prime display is fossil fish. On weekends, during summer months, visitors can assist (not keep) staff in research projects.
5. **Florissant Fossil Beds National Monument, Colorado**—Florissant means "flowering." Site contains petrified trees, plants and insects.
6. **Badlands National Monument, South Dakota**—Contains a diversity of Cretaceous and Oligocene fossils.
7. **Agate Fossil Beds National Monument, Nebraska**—contains a large and unusual collection of Miocene fossils including a lot of predators.
8. **Hagerman Fossil Beds National Monument, Idaho**—America's "youngest" fossil park. Contains over 180 mammal and 35 plant species with the Hagerman horse being the most abundant.

NANCY FOLDEN: Saturday morning, May 19, dawned cool and proved to be a perfect day to hunt collectible rocks on gravel bars. The site selected is just across the line in Tipton county. The following MAGS members must have agreed and met at Wal-Mart in Millington: Marvin Nutt, Idajean Jordan, Carlene Bell, Lou White, David and Beth Day, Park Noyes, Shirley Byrd, Elissa and Rob Powell, James Butchko, Carol Lybanon and family, Debbie Schaeffer, David McIlwain and Zach and Taylor Faddis, Pam Gurlley, Barry Burns, Jean and Allen Helt and family, Shanon Drungel, Robert Enzerink and Serena, and Nancy Folden. And I'm not sure that I listed everyone's names. It seemed like more people were hunting in the creek bed.

What a caravan that was traveling to the site! At one stop sign, young girls were collecting money for a fundraiser and I feel sure they had to pinch themselves with that many cars approaching with their lights turned on. My guess would be that they expected to see a car maybe every thirty minutes.

We had to pay a small fee to hunt on private land and sign a release form in case someone became careless and got injured. We had to wait several minutes for the owner to show up with forms. And it wasn't an easy wait. To help pass the time, a member entertained us with her metal detector; but she only found the quarters she dropped.

Idajean and I only stayed a couple of hours; I'm a pansy! But in that time we saw specimens of the following that had been found by members: petrified wood, lignite wood, brown and red jaspers, river agates, conglomerates, colony corals, horn coral and green slag. The young members really find great stuff. My theory on that is they are closer to the ground . . . easy for them to bend over and their eyes don't have to adjust to distance. We were really looking for shapes because everything had to be washed off due to dried mud that had been splashed onto the gravel beds by four-wheelers earlier in the week.

Saturday was a great day to be a rockhound



Serena and Robert Enzerink enjoy the day at Sugar Creek. Photo courtesy of Robert Enzerink.



DMC program of the SFMS field trip committee An official field trip of the TN Valley Rocks and Minerals Club June 18, 2005 • Chunky Gal Mountain, Clay Co., North Carolina

COLLECTING: THIS IS A FREE SITE. We will be collecting Zoisite with Ruby, two different kinds of Sapphires, There have been very good examples of sapphire found during these trips. Also, some rubies have been found here. I may also take people to a close by site for crystal-clear garnets.

SPECIAL CONDITIONS: There are no facilities. This is a wilderness area and not suited for small children. Also, everyone must attend a safety briefing before going on their own. This is a requirement because of the terrain in which we will be collecting. Please extend our warmest invitation to all to join us for a beautiful day in the North Carolina mountains.

BRING: You should bring a garden shovel or hand rake, a sifting screen and buckets. The best finds come from digging around the tree roots. (As always, bring your picnic lunch, plenty of fluids, some bug spray, sunscreen, a hat, gloves, and sturdy shoes. You may also need to bring a pick, large hammer, and chisels if you want to work on the boulders.)

DIRECTIONS AND WHERE TO MEET: We will meet at the Huddle House restaurant in Hayesville N.C. at 10 a.m. I will be there about 8:30 a.m. for breakfast and will be wearing our club vest so people can find me. The Chunky Gal site is a 20 minute drive from Hayesville toward Franklin N.C. The Huddle House is located on the south side of US 64, just west of the intersection of US 64 and SR 69 and adjacent to the Ingles shopping center. (Remember—everyone must meet and proceed to the collecting site together!)

CONTACT: Jack Weaver, Field Trip Chairman, Tennessee Valley Rocks and Mineral Club (Chattanooga, TN)
Email: Madjack711@aol.com

Field trips are open to all members of associated clubs of the DMC program of the SFMS Field Trip Committee and to all members of SFMS member clubs who have provided their membership with SFMS liability insurance. Because of insurance requirements, members of the GENERAL PUBLIC are NOT invited on this or any DMC program field trips!

June SFMS shows and other events

JUNE 4-5, 2005 • Birmingham, AL • Alabama Mineral & Lapidary Society • 32nd Tannehill Gem, Mineral, Fossil and Jewelry Show • From Birmingham, I-20/59S to Exit 100 or I-459 to Exit 1 • Follow the signs • Hours: 9:00 A.M.-5:00 P.M. • Contact: Rick Kittinger, rickkittinger@bellsouth.com

JUNE 10-12, 2005 • Charlotte, NC • Charlotte NC Gem and Mineral Club • 37th Annual Gem and Mineral Show • Oasis Shrine Center on Daniel Burnham Way • Hours: 10th-11th, 10:00 A.M.-7:00 P.M.; 12th, 10:00 A.M.-5:00 P.M. • Contact: Clarence Johnson, 704.573.1116; Becky Strickland, 704.537.6010, jsrskat@msn.com

JULY 27-31, 2005 • Franklin, NC • The Gem and Mineral Society of Franklin, North Carolina • Annual Gem and Mineral Show • Macon County Community Building on 441 South • Hours: 27th-30th, 10:00 A.M.-6:00 P.M.; 31st, Noon-5:00 P.M. • Contact: Fred Plesner at 828.349.4224

SEPT 2-5, 2005 • Hendersonville, NC • Henderson County Gem and Mineral Society • 24th Annual Gem and Mineral Spectacular and Sale • Whitmore Activity Building, Lily Pond Road • Hours: 2nd-4th, 10:00 A.M.-6:00 P.M.; 5th, 10:00 A.M.-5:00 P.M. • Contact: Margaret L. Johnson, P.O. Box 6391, Hendersonville, NC 28739-6391, 828.692.1249 or email mgt.j.ed@brinet.com

Southeast Federation workshops available at Wildacres

Workshops are available at Wildacres Retreat near Little Switzerland, North Carolina. These lapidary workshops are sponsored by the Southeast Federation. The cost is \$280 for the week. This includes room and board. Some classes have a lab fee and supplies, if needed, can be purchased from the instructors.

Some classes are still open for the August 22-28 sessions: Bead Design, Lost Wax Casting, Open Cutting, Raku Pottery, Beginning Wire and Intermediate Wire.

Classes open for the September 19-25 session are: Faceting/Intarsia, Gem Appreciation, Glass Bead Making, Goldsmithing, PMC, Raku Pottery, Beginning Silver, Stained Glass and Beginning Wire Craft.

Some classes require a pre-requisite so you'll need to check with either the registrars or directors.

For further information contact:

SFMS Wildacres Registrars	or	SFMS Wildacres Directors
Bill and Kerri Wetzel		David and Barbara Tuttle
5010 Sunset Drive		85504 Blackmon Road
Easley, South Carolina 29642		Yulee, Florida 32097
wwetzel@earthlink.net		dt@net-magic.net

Visit the Southeast Federation website at www.amfed.org/sfms and click on the Wildacres link.

DMC field trip policies must be followed

It has come to our attention that a few members of DMC clubs are NOT following our "Field Trip Policies" while on our hosted field trips. On the Savannah River Agate DMC field trip outside of Girard, Georgia recently, several cars did not meet at the agreed meeting place but, instead, went straight to the collecting site. They did not sign the release forms and had an unfair advantage over the rest of the party.

This type of behavior will not be tolerated and all offending parties will be reported to their associated clubs. Your club's membership in the DMC Field Trip sharing program could be jeopardized if we continue to receive reports on further abuses of our field trip policies by members of a DMC member club.

Jim Flora, SFMS Field Trips Committee Chair, DMC Program Coordinator

DMC Field Trip Policies are: (01) All societies which have agreed to host a field trip and join the DMC Field Trip Sharing Program of the SFMS Field Trip Committee will be called an "associated" club. (02) Only associated clubs will be allowed to publish DMC program field trips as their official monthly field trip. (Benefit of membership!) (03) Field trips are open to all members of associated clubs of the DMC program of the SFMS Field Trip Committee and to all members of SFMS member clubs who have provided their membership with SFMS liability insurance. (04) For insurance purposes, all associated clubs must publish all DMC program field trips as "officially recognized" field trips of their society. It is required that all persons who attend a DMC program field trip be a member, in good standing, of an SFMS club. Since a family membership covers every one in a family who can attend, your SFMS club will need all family member names on their membership roll. (05) All sites visited by the DMC field trip sharing program are not to be revisited unless they are on public domain property - road cuts, national forests, etc., or on privately owned land with the owner's permission. This is the quickest way to lose access to a host club's field trip location. Therefore, if an associated club or one of its members breaks this crucial DMC field trip policy, their future DMC program field trip information will be forfeited! (06) Please do not visit a site immediately before a DMC program field trip. Also, do not go to a site ahead of the group on the day of the field trip. Meet and convoy with the rest of the group so that everyone will have equal access to the site. (07) Do not park your vehicle where it is blocking the road, a gate, or another vehicle. (08) Always fill in all your holes. (09) Don't litter. (10) Never disturb buildings or other facilities at a collecting site. (11) Only take home what you can reasonably use! (12) PLEASE keep your vehicle locked at all times!

April 2005 board meeting notes

Susan Thom, MAGS Secretary

The MAGS board of directors meeting met on March 31, 2005 at the Blue Plate Cafe, 5469 Poplar Avenue, presided by President W.C. McDaniel who opened the meeting at 6:45 p.m. In attendance were: Mike and Sherri Baldwin, James Butchko, Nancy Folden, Idajean Jordan, W.C. and Cornelia McDaniel, David McIlwain, Raynee Randolph, Susan Thom, Roger Van Cleef and Lou White. (1) Treasurer – Seeking distribution possibilities for membership cards, directories and newsletters. (2) Field Trips – March: Everyone had a good time, even with the weather, in Alabama scouting for blastoids; April – Birmingham Ridge, Mississippi, collecting exogyra ponderosa shells (meet at Natchez Trace Parkway); May – Sugar Creek agates, Ice Age fossils and petrified wood; June – 20-Mile Creek; July or August – possible creek site; October or November – Memphis Stone and Gravel site. (3) Program – April – Ron Brister, history of Pink Palace museum from 1930 and Memphis and Shelby County Research Revisited Program. Live auction at April meeting; May – Dan Swann, Chucalissa Museum, cultural anthropology; June – gem stone identification by member of American Gemology Society. (4) Youth: April – make rock sandwiches; May – communications project-make poster, oral report, written report, etc. (5) Directories: directories will be distributed this month. Need proofreaders to do final check before printing. (6) Sunshine Report: Marilyn Free's father passed away. John Jones sounds much better. (7) Membership: application for David, Qiaoli Liang, Benjamin and Daniel Shankman accepted. Ne member packets need to be distributed. Send out-of-town packets. In-town members should pick up packets at meetings. 14 lifetime members in club. (8) Historian/Rock Swap: May – Lou White; June – Susan Thomas; October – Alan Parks. (11) Show: April 23-24. Getting down to the final details. Show Committee meeting on Thursday, April 7 at 6:30 p.m. Shelby County Science Fair winners have been invited to bring their projects to the show. (12) Southeast Federation meeting: Mike Baldwin and Cornelia McDaniel will be the MAGS representatives at the Saturday morning board meeting. (13) Old Business: Budget Planning for 2005 expenses will be deferred until May board meeting. Meeting adjourned at 8:07 p.m.

April 2005 membership meeting notes

Susan Thom

The MAGS April membership meeting was held at Shady Grove Presbyterian Church on April 8, 2005, presided by W.C. McDaniel. There were 66 members and 1 visitor-Don Grubbs. (1) Roger Van Cleef's Fossil Shop meeting is next Thursday night, May 14 at 4683 Aloha in Memphis; (2) New directories are available tonight; (3) New bylaws approved by membership; (4) Field trip to convoy on April 9; (5) Show changes this year include members bring desserts only to Friday night show dinner, teenagers to move rock materials for RockZone, and 24-hour security will be provided to a guard firm; (6) Southeast Federation executive board meeting will be Saturday morning, April 23; (7) Junior program tonight is "rock sandwiches"; (8) Adult program by Ron Brister on the "History of the Pink Palace and Archaeological Sites in Memphis." Ron asked if there was any interest from club members in forming an architectural group involving education and training. Suggested we form a group to study this proposal. After passing testing, certification would be given for the architectural field study; (9) Four displays were exhibited – three juniors and one adult. The meeting was adjourned @ 8:30 pm.

Welcome new members to MAGS

MELBA COLE, MAGS MEMBERSHIP DIRECTOR: Please join me in welcoming our newest MAGS members.

[01] Rosemary Crawford • 1977 Peabody Ave. # 3 • Memphis, TN 38104 • rtango@bellsouth.net • 901.276.1616

[02] Peter and Mathilda Doorley • 5636 Fieldcrest • Bartlett, TN 38134 • fm5px@aol.com • 901.388.6184

Awards abound and communication is still the key

by Raynee Randolph and Sherida Helms

At the May meeting ten MAGS youth received awards. Harrison Parks received his Future Rockhounds of America (FRA) badge; Madison Horowitz received her FRA and Field Trip merit badge; Rachel Griffin, Taylor Faddis and Zachery Faddis received their Field Trip merit badge; Karen Schaeffer, Lauren Schaeffer, Danielle Schaeffer, and Serena Enzerink received their Field Trip and Fossils merit badges; and Kristopher Helms received his Fossils merit badge. Congratulations to all the youth. This month we will be taking a look at the Tennessee state rock and gem stone. Here are a few of the articles written during the May meeting as part of the Communications merit badge.

Opal

by Alan Adams
and Charlie Thomas

SiO₂-nH₂O; Hydrated Silicon Dioxide

Opal has been a popular gem for many centuries and it has a very interesting structure. Opal is considered a mineraloid because this structure is not truly crystalline. The chemistry of opal is primarily SiO₂ and varying amounts of water. The amount of water varies from 5-10% and greater. This water can help geologists determine the temperature of the host rock at the time the opal formed. Hardness is 5.5-6. Streak is white.



Brookite

by Kris Helms
and Harrison Bogema

Brookite is a polymorph. It has two minerals in it; rutile and anatase. Its chemical formula is TiO₂. At about 750°C it will change into rutile. It is dark brown to greenish black and is adamantine to sub-metallic. Crystals are opaque. Cleavage is poor prismatically and fracture is subconchoidal. Hardness is 5.5-6 and specific gravity is 3.9-4.1. Streak is light brown to white.



Opal and brookite images courtesy of www.mineral.galleries.com

Calcite

by Rhena South
and Karen Schaeffer

Hey! If you like chemistry in class and you want calcite, here's the recipe-CaCO₃, calcium carbonate.

Calcite can be variable colors, such as white, colorless, light yellow, orange, blue, pink, red, brown, green, black, and gray. Sometimes it is iridescent.

Can you guess how hard it is? Do you think 6? If so, it is wrong. It is only 3! It has a hardness of less than 2.5. It can be scratched with a fingernail. The streak is white.

Rockhound

by Rachel Griffin
and Madison Horowitz

- R Rocks
- O Opals
- C Crystals
- K Krystals
- H Hard as a rock
- O Opals
- U Underground
- N Nice
- D Digging for rocks

Crystal Garden Recipe

INGREDIENTS

- 6 tablespoons salt
- 6 tablespoons liquid bluing (see Note)
- 6 tablespoons water
- 1 tablespoon ammonia
- Food coloring (optional)

INSTRUCTIONS

Combine salt, bluing, water and ammonia. Pour over small pieces of rock or coal in a shallow glass or china bowl. Drip food coloring on top, if desired. Crystals will begin to grow soon. Add water occasionally to keep crystals growing. You'll probably want to place dish on a tray or wooden board as crystals grow over the side of the bowl.

Note: Liquid bluing can be found in most markets in with the laundry soaps and products. The most popular brand is Mrs Stewart's Liquid Bluing and is used as a laundry whitener.

New additions to the MAGS library

NANCY FOLDEN—MAGS DIRECTOR, LIBRARIAN: Several new additions have been made to the MAGS library.

Rena and George Everett presented MAGS with a copy of "The Origins of Agates, Thundereggs and Other Nodular Structures" by Benjamin M Shaub, in memory of Leslie Garth.

Marvin Nutt presented MAGS with a copy of "An Introduction to the Tri-State Mineral Museum, Missouri Southern State College (SW Missouri-Joplin, MO)".

Michael Herren presented MAGS with a copy of "Fossil Shark Teeth of the World" by Joe Cocke.

If you haven't been by the MAGS library lately, you are missing a great opportunity to learn more about our hobby. If you are planning a vacation this summer, drop by and check out the field guides and gem trail guides in the library, or check out a video or two for some interesting summer viewing. From agates to zirconia, dinosaurs to fishes, we have something for you.

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Adult Article 2nd- 89, 90, 04; 3rd-92; 4th-85, 04; 5th-91, 03; 6th-87; 8th-04; Honorable Mention-03, 04

MAGS Rockhound News
367 North Main Street
Collierville, TN 38017

MARK YOUR CALENDAR

Board Meeting
June 2

Membership Meeting
June 10

Fossil Group Meeting
June 16

MAGS Rock Swap
June 17

MAGS Field Trip
June 18

DMC Field Trip
June 18

