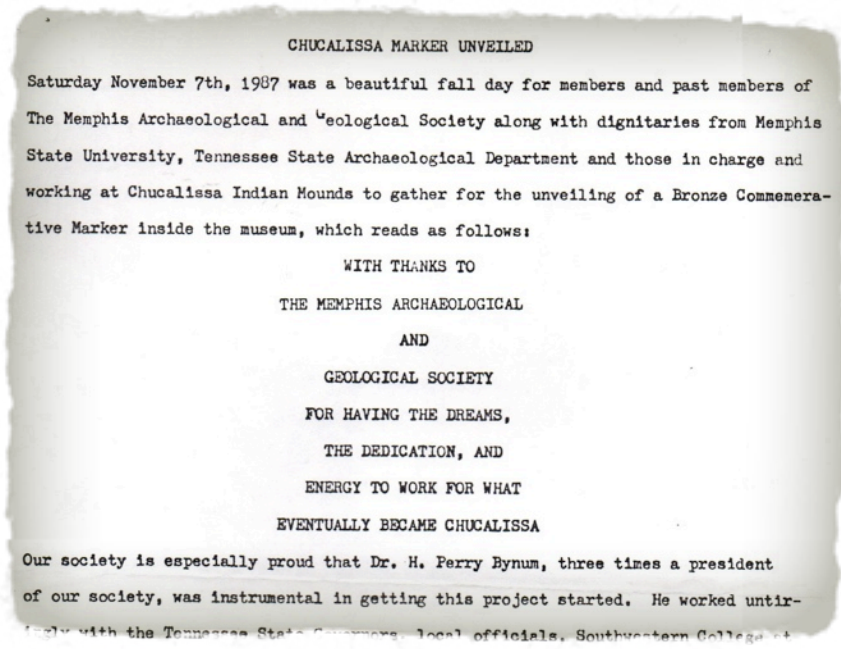




Volume 60 ♦ Number 03 ♦ March 2014 ♦ A monthly newsletter for and by the members of MAGS

# Chucalissa and MAGS

*Dr. Robert Connolly, Director, C. H. Nash Museum at Chucalissa*



At our March meeting Dr. Connolly will tell us about current plans at the museum, highlighting MAGS involvement. The picture, which shows the beginning of an article from *MAGS Rockhound News* over 25 years ago, illustrates some of that involvement.

MAGS and Chucalissa started at the same time and were connected from the beginning. The MAGS First Annual Report, published in 1952, lists under Unfinished Projects "The continuing of the archaeological research and out-

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## MAGS TO HOST MARCH 29 DMC FIELD TRIP

The March 29 Dixie Mineral Council field trip, to Sugar Creek (near Millington), will be hosted by MAGS. This is the first DMC field trip to this site, where we will be collecting agate, jasper, chert in multiple colors and banding, fossils, and petrified wood. For full details, contact field trip leaders Charles Hill ((901) 626-4232) or W. C. McDaniel ((901) 490-3575 or [w.c.mcd@att.net](mailto:w.c.mcd@att.net)).



Thanks to Emily & Charles Hill, and Bob & Bonnie Cooper, for helping in the hospitality area. MAGS needs two family volunteers each month. It's a simple job: set up two tables, set out the drinks, plates, etc., bring one bag of ice, and help put things away. Let Carol know if you are willing to help: (901) 757-2144.

# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

MAGS Rockhound News ♦ A monthly newsletter for and by the members of MAGS

## 2013-2014 MAGS BOARD

### President—Paul Sides

1062 CR 739, Wynne, AR 72396 ♦ (870) 400-9060

### 1st VP (Field Trips)—W. C. McDaniel

2038 Central Avenue, Memphis, TN 38104 ♦ (901) 274-7706 ♦ w.c.mcd@att.net

### 2nd VP (Programs)—Ron Brister

3059 Old Brownsville Road, Bartlett, TN 38134 ♦ (901) 388-1765 ♦ bristerr@bellsouth.net

### Secretary—Carol Lybanon

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### Treasurer—Bill Gilbert

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2887 Forest Hill Irene Road, Germantown, TN 38139 ♦ (901) 626-4232 ♦ hunter3006@aol.com

### Director (Asst. Programs)—Vacant

### Director (Youth)—James Butchko

4220 Dunn, Memphis, TN 38111 ♦ (901) 743-0058 ♦ butch513j@yahoo.com

### Director (Asst. Youth)—Bonnie Cooper

8695 Baylor Road, Arlington, TN 38002 ♦ (901) 377-0900 ♦ rocks4us@hotmail.com

### Director (Librarian)—Ron Brister

3059 Old Brownsville Road, Bartlett, TN 38134 ♦ (901) 388-1765 ♦ bristerr@bellsouth.net

### Director (Membership)—Neville Mayfield

3982 Glendale Drive, Memphis, TN 38128 ♦ (901) 386-3006 ♦ enmayfield@gmail.com

### Director (Historian)—Nannett McDougal-Dykes

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### Newsletter Editor—Matthew Lybanon

2019 Littlemore Drive, Memphis, TN 38016 ♦ (901) 757-2144 ♦ lybanon@earthlink.net

### Webmaster—Mike Baldwin

367 North Main Street, Collierville, TN 38017 ♦ (901) 853-3603 ♦ mbaldwin05@gmail.com

### Show Chairman—James Butchko

4220 Dunn, Memphis, TN 38111 ♦ (901) 743-0058 ♦ butch513j@yahoo.com

## MAGS AND FEDERATION NOTES

### MAGS Needs You

Many thanks to all for your courtesy in not pointing out the typo in this space in last month's issue. NOW the Memphis Mineral, Fossil, and Jewelry Show opens in less than 2 months, on April 26. You can help by becoming a sponsor (see P. 7) and by volunteering to help at the Show (see P. 5). And don't miss the pictures of the two(!) grand prizes on P. 6. You can also print the Member Show ticket on that page and give some out to your friends.

Please contribute articles or pictures (everybody likes pictures) on any subject of interest to rockhounds. If it interests you it probably interests others. The 15th of the month is the deadline for next month's issue. Send material to [lybanon@earthlink.net](mailto:lybanon@earthlink.net).

### DMC Field Trips

#### March

MAGS is the host for the March 29 DMC field trip to Sugar Creek. See pp. 1 and 8 for more information.

#### April

WHERE: Reel Amethyst Mine, Iron City, NC (fee site)

WHEN: Saturday, April 19, 8:00 A. M.

COLLECTING: amethyst, beryl, ironized quartz, smokey quartz, and associated gems and minerals.

INFORMATION: Cost is \$25 for each digger (children under 13 free when accompanied by a paid digger). Contact Neil Hohmann at (704) 752-2889 or [gisusainc@aol.com](mailto:gisusainc@aol.com), or Chuck Borawa at (704) 545-6126 or [chuckborawa@gmail.com](mailto:chuckborawa@gmail.com).

### Links to Federation News

- ➔ AFMS: [www.amfed.org/afms\\_news.htm](http://www.amfed.org/afms_news.htm)
- ➔ SFMS: [www.amfed.org/sfms/](http://www.amfed.org/sfms/)
- ➔ DMC: [www.amfed.org/sfms/\\_dmc/dmc.htm](http://www.amfed.org/sfms/_dmc/dmc.htm)



Only 56 days until the 2014 Memphis Mineral, Fossil, and Jewelry Show opens!

*Chucalissa and MAGS* lined excavations in the area of T. O. Fuller State Park, originally designated as an area for an Archaeological Park.”

Civilian Conservation Corps workers clearing the area to create what is now T. O. Fuller State Park discovered evidence of Native American habitation. Some of those who founded MAGS were involved in early work at the site. An early issue (Volume 3, Number 9) of *MAGS Rockhound News* featured an article titled “CHUCALISSA (House Abandoned), An Archaeological Project of the Tennessee Division of State Parks,” by Charles Nash, Archaeologist, Tennessee Division of State Parks. The museum, now part of the University of Memphis, opened to the public in 1956. You can read more on MAGS involvement in the development of Chucalissa on the MAGS website (page URL [memphisgeology.org/an\\_chucalissa.htm](http://memphisgeology.org/an_chucalissa.htm)).

MAGS is closely involved with Chucalissa today. Dr Connolly’s talk will cover MAGS related projects with collections, projects for which MAGS provides financial support such as the replica house, archaeology lab updates, new directions in educational programs and public offerings, collaborative research projects with Chucalissa’s sister museum in Peru, and a general activity update. The first of these refers in part to the MAGS Archaeology Interest Group, which meets at Chucalissa and is currently working on educational displays of some of the artifacts.

The first part of our club’s

name highlights our support of archaeological work, and the March program will bring us up to date on some of our current involvement in that field.

## ISCS SandFest 2013

A Slightly Overdue Report  
*Lori Carter*



The Georgia Mineral Society and Tellus Science Museum in Cartersville, Georgia, co-hosted ISCS SandFest 2013 last November. Sand collectors converged at the museum from all over the U. S. and one gentleman even came all the way from Germany! The conference began with a full day of sand collecting field trips (3!) where attendees quickly became friends with each other. The next two days were filled with more field trips, presentations, discussion forums, and workshops. All hands were on deck for Tellus Family Science Night where attendees helped children make their own sand cards with 6 different sands donated by ISCS and GMS members. The Martin Microscope company ([www.martinmicroscope.com](http://www.martinmicroscope.com)) generously loaned 12 stereomicroscopes for viewing the sand cards,

plus 2 large monitors with video adapters so everyone could see the beautiful sand. One GMS member even had a cell phone adapter so people were able to photograph sand through a microscope! After a whirlwind of activities, the conference wound down with a silent auction followed by a banquet, then a live auction presented by the consummate GMS auctioneer, Kim Cochran. Dr. Robert Simmons, Program Director for Biological Imaging at Georgia State University, was the keynote speaker. His presentation was filled with images of art inspired by the world of microscopy. Some of his photomicrographs were on exhibit at the museum during the conference, too. The conference closed with an International Sand Collectors Society breakfast meeting and one more field trip. It was a unique confluence of tremendously talented attendees, more than a year of planning and preparation, and a world class venue. Everyone arrived without knowing what to expect but left with baggies of sand, new friends, and the satisfaction of a singularly spectacular sand experience. (Note: The conference book is available at Amazon under the title *ISCS SandFest 2013*).

## Eye on the AFMS

MAGS is a member of the Southeast Federation of Mineralogical Societies (SFMS), a regional federation under the American Federation of Mineralogical Societies (AFMS). Some MAGS officers receive copies of the monthly newsletter of the AFMS, the *A. F. M. S. Newsletter*

*Continued, P. 4*

*Eye on the AFMS* (they keep it simple).  
*Continued from P. 3*

MAGSters can go to the AFMS website (see P. 2 of *MAGS Rockhound News* for the link) and download back issues.

The March issue just showed up. It contains an article that MAGSters may find very interesting: "What Does the AFMS do for You and Your Club?". The article, which contains 17 sections that answer the question raised by the title, is quite long. So rather than reprinting the entire article, here are the 17 section topics:

1. Slide programs for club meetings.
2. Awareness of federal legislation that may impact the hobby.
3. Bulletin Editors Contest.
4. All American Club Award Program.
5. Scholarship Awards to Graduate Students in the Earth Sciences.
6. Inter-Regional Field Trips.
7. Junior Activities.
8. Uniform Rules.
9. Judges Training Program.
10. Web Site Competition.
11. Club Member Recognition.
12. Annual Convention.
13. Endowment Fund.
14. The Commemorative Stamp Project is an effort sponsored by AFMS to put the hobby on US postage stamps.
15. Public & International Relations.
16. AFMS Website.
17. The AFMS Newsletter.

## January Board Minutes

Carol Lybanon

The MAGS Board of Directors met January 2 at St. Francis Hospital, 5959 Park Avenue. The meeting was called to order at 6:30 P. M. by First Vice-President W. C. McDaniel. President Paul Sides arrived a few minutes later. Present were: Mike Baldwin, Ron Brister, Bonnie Cooper, Bill Gilbert, Carol Lybanon, Matthew Lybanon, Neville Mayfield, W. C. McDaniel, Nannett McDougal-Dykes, Paul Sides, Bob Cooper, Marc Mueller, and

ary is still pending. In March MAGS will host the DMC trip to Sugar Creek. In April we have the Show.

**Adult Programs:** W. C. will present the January program. In February Mike Baldwin will be the presenter; Robert Connolly is scheduled for March. Other program ideas were discussed. Labeling specimens was one proposed topic.

**Junior Programs:** The January program will be making gem trees.

**Show:** Jim Butchko was not present.

The next Show Meeting is scheduled for Monday, January 6, at the Agricenter. Four dealers dropped out, for various reasons. Three others have already been contracted. We need to fill one more spot. The sample tablecloths are in. We will look at them at the next Show Meeting.

**Library:** Ron thinks we need more geology books.

**Newsletter:** Matthew said it would be helpful if each Director sent him information about 3 months of events.

**Webmaster:** No report.

**Historian/Rock Swap:** Nannett reported that the holiday party was a great success. Attendance was good and the Juniors loved

their gifts.

**Old Business:**


▶ W. C. asked if the exhibit from Chucalissa would be ready for the Show in April. Ron said they are working on it.

▶ W. C. reported on the IRS issue. It was completely resolved over the phone. He answered all the questions the agent asked, and we in good standing with the IRS. We need to file in May for 2013.

**New Business:**

▶ Matthew talked

*Continued, P. 5*



**Save The Dates**

June 7 & 8, 2014

9th Annual Ben E. Clement Gem, Mineral, Fossil, & Jewelry Show with Digs.

At Fohs Hall, 205 North Walker Street, Marion KY 42064

New to show this year - Indiana Artifact Display & Beading Class  
Sat. at 11 AM

Regular show activities - Vendor Tables, **FREE** children's activities through out the day, silent auctions, hourly door prizes, museum tours, Day digs on Saturday and Sunday, Night dig on Saturday, Kentucky Geological Booth, and a wire wrapping class on Saturday at 2 PM

For more information all the Ben E. Clement Mineral Museum at  
(270) 625-4263 or e-mail at beclenent@att.net

Julie Featherstone.

**Secretary:** The minutes were accepted as presented.

**Treasurer:** The Treasurer's Report was accepted as presented, subject to audit. W. C. said that the President needs to appoint someone to audit the 2013 books.

**Membership:** We have about 35 renewals. Neville hopes for a rush to get finished with the 2014 dues renewals.

**Field Trips:** W. C. reported that the Missouri trip was postponed. He can't reschedule that trip until he gets his personal schedule worked out. Febru-

# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

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*January Board Minutes* about the amount of money that needs to remain in the Show account. He asked for a one time change in the amount specified in the Standing Rules, because we must pay the deposits for the 2015 and 2016 dues this year. Tabled until after the Show. We need to review the Standing Rules and see if anything else needs to be corrected or changed.

- ▶ The Director—Assistant Programs position has been vacated. President Paul Sides needs to fill this position. It would be good if we can approve his appointment at the February Board Meeting, or earlier, at the January Membership Meeting.
- ▶ W. C. will look for 2014 gifts for the Juniors, and the grand door prize for the 2014 Show, during his trip to Tucson.

▶ The meeting was adjourned at 7:40 P. M.

## January Meeting Minutes

*Neville Mayfield for Carol Lybanon*

The MAGS Membership Meeting was held at Shady Grove Presbyterian Church on January 10. There will be a silent auction. The Lybanons are out of town. Bill Gilbert gave financial report. Neville Mayfield introduced new member. Jim Butchko updated status of show preparations. There will be a grab bag filling party at the shed Mar 15. Ron Brister reported on the library. We have 800 books—something for everyone. The Archaeology Group is starting up again at Chucalissa, every third Sat, 10 AM-12 noon. Mike Baldwin announced that the MAGS Constitution and Bylaws are now on the website. He will present a program on astrogeology at the

next meeting.

**Old Business:** none.

**New Business:** none.

W. C. announced field trips: Jan trip is canceled. Mar 29 will be Dixie Mineral Council Sugar Creek trip. Dixie Mineral Council is a branch of the SE Mineralogical Society. There will be a druzy quartz trip to MO, probably in Apr., and a dolomite, etc. trip to Vulcan Quarry in May or June. Paul announced a field trip to the Badlands in July for 4 days. Collections will be Monterrey Agate, coral, gravel bar material, fossils, Ammonites, etc. This will be a large event sponsored by another group, and will include programs and parties.

W. C. McDaniel presented the program on how to clean quartz, agates, and geodes.

Specimens were sold by silent auction to benefit the show.

### Show Opens April 26—Volunteer List Below

All MAGS Members are asked to help with the show by volunteering your time. The following chart is a summary of the schedule. The complete schedule is available via email and signup sheets (2-hour shifts) will also be available at the March and April Membership Meetings. Or contact Carol at (901) 757-2144 or [sgcarol@earthlink.net](mailto:sgcarol@earthlink.net).

Friday 4-25 need lots of help	<b>Day 9-6</b> -times/events will be fluid <ul style="list-style-type: none"> <li>• Help with move from shed to Agricenter</li> <li>• Show layout</li> <li>• Tablecloths</li> <li>• Rockzone prep</li> <li>• Show prep as needed</li> <li>• Dealers move in</li> <li>• Exhibits set-up</li> <li>• Prepare for show dinner</li> </ul>	<b>Evening- 6:30 pm</b> - see separate signup for dinner <ul style="list-style-type: none"> <li>• Show dinner</li> <li>• Final show prep</li> </ul>
Saturday 4-27	<b>Day 9-6</b> <ul style="list-style-type: none"> <li>• 2-3 hour shifts</li> <li>• Front/admission</li> <li>• Information</li> <li>• Rockzone</li> <li>• Where needed</li> </ul>	No show events., except eat and rest up for Sunday
Sunday 4-28	<b>Day 10-5</b> <ul style="list-style-type: none"> <li>• 2-3 hour shifts</li> <li>• Front/admission</li> <li>• Information</li> <li>• Rockzone</li> <li>• Where needed</li> </ul>	<b>Evening 5 to finished</b> <ul style="list-style-type: none"> <li>• Breakdown</li> <li>• Pack, Organize</li> </ul>
Monday 4-29	<b>Day 8-11</b> <ul style="list-style-type: none"> <li>• Help as needed with move back to shed</li> </ul>	No show events

### Faceting Machine for Sale

The Lee Lapidaries Machine. It has a 1/4 horsepower Dayton Electric motor. What's in the picture is what is included. Has lots of 8 inch discs, copper lap, Lucite polishing lap, aluminum polishing lap and lots more. I'll bring it to the meeting Friday the 14th if anyone wants to see it. \$350 for everything. Contact Mike Baldwin at (901) 494-9262 or [mbaldwin05@gmail.com](mailto:mbaldwin05@gmail.com).



# MEMPHIS ARCHAEOLOGICAL AND GEOLOGICAL SOCIETY

MAGS Rockhound News ◇ A monthly newsletter for and by the members of MAGS

## Memphis Mineral, Fossil, and Jewelry Show

### 2014 Dealers

Dealer	Primary Products Many dealers have multiple products
Geodite Minerals—Tennessee	minerals
Volunteer Gems—Florida	minerals
Eagles Nest—Mississippi	minerals
Nature's Bazaar—Georgia	beads
No Stone Unturned and Miller Minerals	rocks/minerals
One of a Kind Designer Cabs	jewelry
Planetary Parts—Georgia	minerals
Iteco—Ohio	jewelry
Arkansas Gem and Beads	beads
Stones and Bones—North Carolina	fossils
Amber America—New York	jewelry
Marble Arts/HML—Alabama	decorative arts
Rock Barrel—Tennessee	rocks
Javed's—Georgia	jewelry
Imperial Gems—Georgia	beads
JR Rocks—South Carolina	jewelry
Mineral House—Ohio	minerals
McNeil Minerals—Mississippi	minerals
Marble Gems—Florida	rocks
Fantastic Stones—Louisiana	jewelry
C&N Gifts—Arkansas	minerals
Blue Duck Gem and Minerals—Tennessee	minerals
Geode Gallery—Illinois	rocks
Earthcrafts—Tennessee	rocks
Custom Creations—Mississippi	beads
Fall Creek Rock Shop—Missouri	minerals
Leonard's Backyard Rock Shop—Arkansas	minerals
Marble Gems-I—Florida	rocks
Gems and Crystals Unlimited—Georgia	jewelry

## 2014 Grand Prizes

We will have two grand prizes at the 2014 Show, one given away on Saturday and one on Sunday.



***Amethyst Cathedral***



***Bring your camera and get "framed" by an amethyst cathedral ring.***

### MAGS Show Ticket Procedures

1. Each ticket must be signed by a current MAGS member
2. Distribute as you wish (*please give notepad announcement with each ticket*)
3. You only pay for tickets that are used
4. If you pay by 6/1/14—\$2.00 each ticket
5. If you pay after 6/1/4—\$3.00 each ticket

Memphis Archaeological and Geological Society  
Show Ticket

**Admit One**

Memphis Mineral, Fossil, Jewelry Show

April 26, 9-6—April 27, 10-5

Agricenter

(Valid only if signed by a current club member)

- Over 50 dealers, exhibits, demonstrations
  - Kids area with Gem Dig & "Rocks Around the Clock"
- [www.theearthwideopen.com](http://www.theearthwideopen.com) 901.274.7706



**Member Sponsors, \$25 or more**

**Business Sponsors, \$100 or more**

**Benefactors, \$1,000 or more**

On April 26 and 27 MAGS will again present the top-rated gem, mineral, fossil, and jewelry show in the Mid-South. The Show is our biggest source of income to support projects that benefit MAGS and the community, but it costs a lot of money to put it on. We ask our Members to donate time, materials, soft drinks and water, but that doesn't cover all the minor things the Show needs.

Members, you can show your support by helping us pay for snack bags for the dealers, bottled water and sodas for dealers and volunteers, advertising flyers and postcards, banners and signs, tickets, bags, wristbands, and other similar expenses. It won't be a surprise to anyone that the prices for these things have gone up.

Your donation would go a long way toward helping us meet our goal of putting on a Show that you would be proud of. MAGS is a 501(c)(3) organization, so your donation may be tax-deductible. You or your business will receive recognition at the Show, on the website, and in *MAGS Rockhound News*.

Please consider helping us. Fill out the form below, and return it to the Show Treasurer with your check made out to "MAGS Show."

.....

Name \_\_\_\_\_

Business Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

Member \_\_\_\_\_ Business \_\_\_\_\_ Benefactor \_\_\_\_\_

Return this form with a check made out to "MAGS Show" to

Matthew Lybanon, Show Treasurer  
2019 Littlemore Drive  
Memphis, TN 38016

For more information,  
call (901) 757-2144  
or email [lybanon@earthlink.net](mailto:lybanon@earthlink.net)

**Experiencing the Earth Wide Open  
MAGS2014-Upcoming field trips**

Dates	Location	Trip status
<b>March 15</b>	<b>MAGS Storage Shed—Show Grab Bag Packing free food if you help, rain date 3/22</b>	<b>trip bulletin to be published</b>
<b>March 29</b>	<b>Sugar Creek—MAGS hosts the DMC</b>	<b>trip bulletin to be published</b>
<b>April 5/6</b>	<b>Missouri Druse Quartz</b>	<b>trip bulletin to be published</b>
<b>April 24-27</b>	<b>Memphis Agricenter The Earth Wide Open</b>	<b>trip bulletin to be published</b>
<b>May or June</b>	<b>Vulcan Quarry, Black Rock, Arkansas Date subject to mining conditions and operations</b>	<b>trip bulletin to be published</b>
<b>May 24/25 Memorial Day</b>	<b>Hot Springs/Mt. Ida, Arkansas Quartz Crystal</b>	<b>trip bulletin to be published</b>
<b>June 14</b>	<b>Aggregate to Yardifacts Making objects from concrete</b>	<b>trip bulletin to be published</b>
<b>July 12</b>	<b>AC Appreciation Day—Part I Discovery Park Union City, Tennessee</b>	<b>trip bulletin to be published</b>
<b>August-9</b>	<b>AC Appreciation Day- Part II Belz Museum, Memphis</b>	<b>trip bulletin to be published</b>

**Reminder: MAGS field trip rules:**

1. Field trips are open only to current MAGS members. Exception: if MAGS participates in any field trip sharing program with other clubs their members may participate if it is a shared trip
2. MAGS members will not contact private landowners to obtain permission to collect on sites where the owner has granted the club permission to collect. A member who is unsure of the location will seek a decision by the Board of Directors.
3. MAGS members will not visit (prior to) a collecting site once it is scheduled and published as a club field trip. Exceptions are to public and/or fee places or locations with multiple collecting sites. A member who is unsure of the location will seek a decision by the Board of Directors.

**Jewelry Bench Tips** by

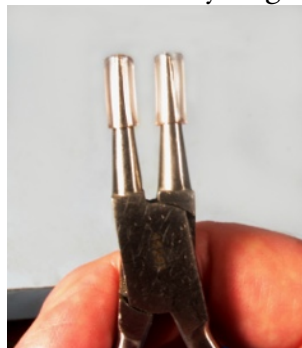
*Brad Smith*

**NO-MAR PLIERS**

Pliers can often leave nicks and scratches on your work. If this is giving you a problem, first take a close look at the plier jaws. New tools can be a little rough. I typically relieve any sharp edges, sand away any tool marks and give working areas a quick polish.

If that doesn't solve the problem, you probably need to cover

the jaws. Plastic electrical tape provides a quick fix but can leave messy adhesive on the jaws. Dips don't seem to last very long.



A quick and easy way I've found is to slip a length of 1/8 dia vinyl tubing over each jaw. It's quick and leaves no sticky residue. Only problem is that it increases the size of the plier jaws a bit. The tubing can be found in a store that sells aquarium supplies.

**PATINA RECIPES**

In a recent class we did a little work with patinas. Came across a couple web sites for those of you who'd *Continued, P. 9*



## Help Us "Raise the Roof"

Tina Walker  
Director

Ben E. Clement Mineral Museum



The Ben E. Clement Mineral Museum, home of the world's largest collection of Ky/III Fluorite and related minerals, needs your help. The roof on the museum has started leaking in multiple locations. The board of directors had it inspected and the verdict is a new roof, the old one is beyond repair. Estimates for the new roof are around \$50,000. And, that is where we need your help. We are asking all people who love the museum or love minerals to help us raise the much needed funds to put a new roof on the building.

*If you can help us with our "Raise the Roof" campaign please mail your donation to the Ben E. Clement Mineral Museum, P.O. Box 391, Marion, KY 42064. Please specify your donation is for the "Raise the Roof" campaign. The museum is a 501(c)3 corporation so your donation is tax deductible to the extent the law allows. If you should have any questions, please do not hesitate to contact me, Tina Walker, director, at 270-965-4263 Wednesday thru Friday from 10AM-3PM or e-mail me at [beclement@att.net](mailto:beclement@att.net). Any and all donations would be very much appreciated!*

**Editor's Note: Many thanks to MAGS Member James Johnson for calling our attention to this.**

*Jewelry Bench Tips* like to explore this area, especially for copper and bronze.

The first is The Science Company at [www.sciencecompany.com/Do-It-Yourself-Patina-Formulas-W12C672.aspx](http://www.sciencecompany.com/Do-It-Yourself-Patina-Formulas-W12C672.aspx) with plenty of formulas for a variety of colors. And there's more formulas at Tim McCreight's Brynmorgen Press web site at [www.brynmorgen.com/resources.html](http://www.brynmorgen.com/resources.html).

Small quantities of chemicals for making your own patinas are available from The Science Company at [www.sciencecompany.com/Patina-Chemicals-C672.aspx](http://www.sciencecompany.com/Patina-Chemicals-C672.aspx).

If you prefer to buy the patinas already for use, one of the best sources I've come across is Sculpt Nouveau at [www.sculptnouveau.com](http://www.sculptnouveau.com). Don't miss all the instructional pdf's on the site and be sure to take a look at the videos show-

ing how to use their products at [www.youtube.com/sculptnouveau](http://www.youtube.com/sculptnouveau).

Get all 101 of Brad's bench tips in "Bench Tips for Jewelry Making" on Amazon.

### Missing Link?



DNA analysis of a Clovis boy's skeleton has provided important clues about both the origins and the genetic legacy of the people who manufactured Clovis tools. The skeleton came from the only known Clovis burial site, found in 1968 on property in central Montana that belonged to the parents of Sarah Anzick, a co-author of the present study.

"Genetic studies tell us these were the remains of a boy," said Michael Waters of Texas A&M,

another co-author. "Physical anthropological studies tell us he was 1 to 1.5 years old, and radio-carbon dating tells us this burial took place about 12,600 years ago, at the end of the Clovis era."

It is generally believed that the Clovis ultimately derived from Asia and were directly related to contemporary Native Americans. An alternative "Solutrean" hypothesis postulates that the Clovis predecessors emigrated from southwestern Europe during the Last Glacial Maximum.

The scientists managed to recover the first complete genome sequence of an ancient North American, despite how badly preserved the DNA in the remains were. The results support the first hypothesis mentioned above.

"We found the genome of this boy is closely related to all Native Americans of today than to any other *Continued, P. 10*

# Missing Link? (continued from P. 9)



peoples around the world," co-author Eske Willerslev of the University of Copenhagen said. "We can also see from the genome study that this Anzick population is the direct ancestor to many Native Americans to date. As such, our study is in agreement with the view that present-day Native

Americans are direct descendants of the first peoples in the Americas."

The scientists also discovered evidence of a deep genetic divergence that occurred between northern Native American groups and those from Central and South America that happened before the Clovis era. Specifically, although most South Americans and Mexicans are part of the Anzick lineage and therefore Clovis, northern Canadian groups belong to another lineage.

**Ref: M. Rasmussen et al. Nature 506, 225–229; 2014, published online 12 Feb. 2014.**

## Calendar

### March 6, 2014

Board Meeting, St. Francis Hospital, 6:30 P.M.

### March 14, 2014

Membership Meeting, Shady Grove Presbyterian Church, 7:30 P.M.

### March 15, 2014

Show grab bag packing party, storage facility

### March 29, 2014

DMC field trip to Sugar Creek (hosted by MAGS)

### April 26 & 27, 2014

Memphis Mineral, Fossil, & Jewelry Show

Memphis Archaeological and Geological Society  
2019 Littlemore Drive  
Memphis, TN 38016

