

Volume 57 ◊ Number 04 ◊ April 2011 ◊ A monthly newsletter for and by the members of MAGS

Welcome to the 32nd Annual Memphis Mineral, Fossil, Jewelry Show at the Agricenter ExpoCenter April 23-24, 2011



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

2011 MAGS BOARD

President-Lou White

3805 Melanie June Drive, Bartlett, TN 38135 ◊ (901) 937-8522

1st VP (Field Trips)-Marc Mueller

1415 Shagbark Trail, Murfreesboro, TN 37120 ◊ (615) 491-5110 ◊ skydancer2992@yahoo.com

2nd VP (Programs)-Paul Sides

1062 CR 739, Wynne, AR 72396 ◊ (870) 208-9586

Secretary-Marc Mueller

1415 Shagbark Trail, Murfreesboro, TN 37120 ◊ (615) 491-5110 ◊ skydancer2992@yahoo.com

Treasurer-Doris Johnston Jones (acting) 409 Bradford Trail Cove, Collierville, TN 38017 ◊

(901) 832-0437 ◊ darjohnston@aol.com

Director (Asst. Field Trips)–Charles Hill 2887 Forest Hill Irene Road, Germantown, TN

38139 ♦ (901) 754-1504 ♦ hunter3006@aol.com **Director (Asst. Programs)–Alan Schaeffer** 6854 Corsica Drive, Memphis, TN 38120 ♦ (901)

Director (Youth)-Carol Lybanon

753-8496 ♦ laserme@aol.com

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

Director (Asst. Youth)-Kimberly Loveland

3246 Teaberry Lane, Bartlett, TN 38134 ◊ (901) 380-1886 ◊ amazeyouu@yahoo.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 ◊ emayfiel@localnet.com

Director (Historian)-Nannett McDougal-

Dykes ♦ 106 Maple Street, Stanton, TN 38069 ♦ redchesty@yahoo.com

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-W. C. McDaniel

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

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GREETINGS FROM THE PREZ

Again, I come to you with my hand out. I need help with the Show. I need help on Thursday with table setup. So many tables, so few strong backs. I need help on Thursday P. M. to stuff goody bags and for Show setup (free pizza for those that help on Thursday). As always, donations for the RockZone can be dropped off in W. C.'s driveway. Don't hesitate. Yesterday is soon enough to volunteer.

That is all I have to say.

The Prez

HAVING MAGS EMAIL PROBLEMS??

MAGS members who are not receiving the newsletter or email event reminders – please verify that we have your correct email address by calling or emailing me.

Please note that certain institutional email addresses simply will not accept email from outside sources such as MAGS. Email to addresses at Memphis.edu are in this category, regardless of what your institution's information technology people tell you. In such a case, you must provide some other email address in order to get our emails. It is very easy, and free, to set up an email account at gmail.com, yahoo.com, hotmail.com, or other such services.

If you have no access to email, please also let me know so we can mail you the newsletter.

Neville Mayfield, Membership Director enmayfield@gmail.com, 901-386-3006

Who's coming and what is going on at the Show?

DEMOSTRATIONS and DEMONSTRATORS

- Richard Gunter-flint knapping
- 2. Mike Baldwin-fluorescent minerals
- 3. Sherri Baldwin-fossil cleaning and prep
- 4. Ida Jean Jordan-rock, fossil & mineral identification
- 5. Robert Duncan-tumbling and vibrating lap
- 6. Cornelia McDaniel-earrings-Make it and Take it
- 7. Wain Poole-faceting
- 8. David and Beth Day-general lapidary
- . April Gibbs-Beading

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Fossil Hunting In The Peace River

by Carol and Matthew Lybanon.

Editor's note: This is the first in a series of articles by MAGS members on interesting collecting sites. I hope other members will help keep this feature going.

The Peace River near Arcadia, Florida, contains a wealth of land and marine fossils. The marine fossils commonly found include shark, ray, pufferfish, barracuda, dolphin, etc. Land fossils commonly found include horse, glyptodont, alligator, bird, turtle, snake, deer, etc.

There are two reasons that marine and land fossils are found in the Peace River. First, this part of Florida experienced numerous cycles of being land versus being submerged in sea water. Second, this area currently has a river running through past deposits which include intermixed marine and land fossils. So, it's quite common to find marine fossils (e.g. shark teeth) in the same area as land fossils (e.g. horse teeth).



Miocene (23-5.33 mya) to Pliocene (5.33-1.8 mya).

Through a series of discoveries by amateur geologists and mining engineers, the Florida "phosphate boom" of the late nineteenth century was sparked. Phosphorus, a nonrenewable resource, is mined as phosphate minerals, which were formed millions of years ago when Florida was underwater. It is believed that phosphate formed when skeletal remains of animals, organic matter and dissolved phosphorus in seawater solidified and settled at the ocean's bottom, ultimately becoming sedimentary layers of rock.

Initially, phosphate was mined with picks and shovels. Later, as new and deeper reserves were identified, the mining companies began strip-mining huge tracts with steam shovels. By then, the region had a new nickname, "Bone Valley," because of the numerous fossils discovered in the deposits.

After several years of false starts, finally this February we got our chance to fossil hunt in the Peace River. The weather was great and the river was low. We waded in and put a shovel of sand in our screen. Wow! Small shark teeth! We were hooked. We had such a great time that we would go again at a moment's notice.



Sample graph, Peace River water level

There are several places to access the river easily: A boat dock in Gardner, campgrounds at Zolfo Springs, and a park in Brownville. If you plan to go there are a couple of things you need to know. If the river is higher than 6 feet at the Zolfo Springs gage it will be very difficult hunting. The river's current will be too strong. The Tampa Bay Fossil Club recommend that you fossil hunt the Peace River

December-May, Continued, P. 4



Shark teeth, sawfish tooth, horse teeth, puffer fish mouth plates

The geologic formation is likely the Hawthorn Group, Peace River Formation, Bone Valley Member which ranges in age from



Dugong bone, turtle shell, snake vertabrae, inner ear bone

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which usually are the low water times. You can check the water level at this website:

http://waterdata.usgs.gov/usa/nwis/uv?site_no=02295637.

You should dig where you can see gravel, and on the side of the river nearest the cliff. You need to bring along shovels and screens, and wear waders if the weather is cold. Nail aprons from Home Depot or Lowe's are great for shark teeth and other small fossils. Anchors for your shovels and floats for your screens would be helpful. You can get more information and see pictures here: http://www.tampabayfossilclub.com/cms-main.php?page=peaceRiverScreens.

Juniors Program

by Carol Lybanon.

Thanks to Herb Nicholson for a great program on rocks. We enjoyed seeing all the examples he brought along, and learned the differences between sedimentary, igneous, and metamorphic rocks.

In April we will design posters to use at our mineral, fossil, and jewelry show. The question for April is: What are the dates of our Show? Bring the answer in writing. Juniors can volunteer to help at the Show.



In May Matthew Lybanon will give a program on magnetism.

See you at our next meeting.



Memphis Mineral, Fossil, & Jewelry Show

April 23-24, 2011



GRAND DOOR PRIZE

The Earth Wide Open presents
From the land of

Machu Picchi

Peruvian Quartz Crystal with galena and pyrite

You're invited to a special night
Friday, April 22
6:30 pm
Agricenter

Show Dinner

- A recognition of the hard work that got us to this day and to celebrate the launch of the show
- Club members, dealers, sponsors, exhibitors
- Catered by Leonard's Barbeque

MAGS 60th Birthday Party Celebration

- Birthday Cake
- Punch
- Special Commemorative Gift

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February 2011 Board Minutes, *Marc Mueller*

The MAGS Board of Directors met February, at the St. Clare Room in St. Francis Hospital, 5959 Park Avenue. Present were: Lou White, Mike Baldwin, Carol and Matthew Lybanon, Marc Mueller, Alan Schaeffer, Ron Brister, Neville Mayfield, W.C. McDaniel, Nannett McDougal-Dykes, Doris Jones, Charles Hill

Secretary: January 2010 Board Minutes were approved as submitted.

Treasurer: Report – Doris Jones will continue to interim treasurer.

Field Trips: Columbus Mississippi, Feb 12 at 10:00 am. George Phillips, our speaker on Feb 11 will lead.

Adult Program: February: February: George Phillips, Paleontology Curator, Mississippi Museum of Natural

Science: Origin of decapod remains of the Cretaceous Coon Creek beds at Blue Springs, MS.

Junior Program: Rubber stamps in January. Feb-Univ of Memphis will present Egyptology. March-Herb Nicholson will do program on different types of rocks. April-Show-related. May-Matthew will do Magnetism. Oct-Dr. Conolly – Stone Tools and arrow heads

Show: W.C. Show is now sold out with a waiting list. Need donations of material for the Gem Dig. Meeting at 6:30 at the Agricenter Boardroom. Monday the 7th. The meeting on the 14th has been cancelled. Have received some donations already of tumbled stone, drusy quartz. Need volunteers.

Library: Nothing new. Will buy 2 new rolling cabinets and free up two cabinets for educational. Will rearrange by category so that TN stuff is together, etc. Fossil Reference collections. If you have Blue Springs material, please consider donating some to the library. This will be used for trip announcements.

Newsletter: Matthew Lybanon. Any officer is free to use the newsletter to inform the club about events. Mike Baldwin has some material on Wells Creek.

Webmaster: Mike Baldwin: The web is updated for February. Next meeting he will bring a laptop to demonstrate some new features.

Historian/Rock Swap: Another year of newsletters are being scanned for soft reference and possibly being added online.

Old Business: Small and big saws have been sold, generating \$350 for the treasury.

New Business: Nannett McDougal-Dykes is setting up a Facebook site for the club. She will be the web master for the site and answer questions.

February 2010 Membership Meeting Notes, Marc Mueller

The MAGS Membership Meeting was held at Shady Grove Presbyterian Church on November 12. The meeting was called to order at 7:30 PM. 66 members and 6 visitors were present. The visitors were Bill and Laura Wade, Mike, Reece and Julia Goldstein, Margaret Rickle, Julie Makin and Heather Luther.

MAGS President Lou White welcomed all the members and welcomed the visitors.

Marc Mueller announced that the next trip would be tomorrow, Saturday, Feb 12, to Columbus, MS, the Luxapallila deposit. Today's speaker, George Phillips will be leading the trip.

For March, a trip to the Wells Creek formation will take place to collect shatter cones from a meteor crater. The trip is planned for March 19th. Note: the trip has slipped a day and will take place on March 20th.

Another trip is being planned for the Vulcan Rock Quarry, Parsons, TN on March 26.

For the adult show, George Phillips presented the Origin of decapod remains (crabs, lobsters, etc.) occurring in the "nodular beds" of the Upper Cretaceous Coon Creek beds at Blue Springs, MS.



Who's coming and what is going on at the Show? SPEAKERS /PROGRAMS

Check web site for times.

Mike Howard-Diamonds on Sat. and Magnet Cove on Sun.

Terry Panhorst-Polymorphs and Pseudomorphs-Sat. & Sun.

Mark Norton-Pinson Mounds-Sat.

Dan Larson-Memphis Aquifer -Sat.

Kent Moran-Earthquakes of the New Madrid Fault-Sun.

Herb Nicholson-Geology 101 for Young Scouts-Sat.

Alan Parks-Geology Merit Badge on Sat.

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Memphis Mineral, Fossil, & Jewelry Show

April 23-24, 2011

WHO'S COMING AND WHAT IS GOING ON AT THE 32ND ANNUAL

Memphis Mineral, Fossil, & Jewelry Show

Sat. April 23 9-6 $\,^{\diamond}$ Sun. April 24 10-5 pm Memphis International Agricenter www.theearthwideopen.com 901 -274-7706

35,000 square feet of exhibit and dealer space with 300 tables

DEALERS

- 1. Stones and Bones-Fossils
- 2. Austin Gems-& Beads-Jewelry
- 3. Larsen's Minerals-Minerals
- 4. Butterflies by God-Fossils
- 5. Earthworks and Stones-Minerals
- 6. McNeil Minerals-Minerals
- 7. B& J Enterprises-Minerals
- 8. Volunteer Ĝems-Minerals
- 9. J.R. Rocks-Jewelry
- 10. Mineral House-Minerals
- 11. Javed's-Jewelry
- 12. Rock Barrel-Minerals
- 13. Eagle's Nest-Minerals
- 14. Geode Gallery-Minerals
- 15. Christopher's Crystal Mine-Minerals
- 16. Fantastic Stones-Jewelry
- 17. Nature's Bazaar-Jewelry
- 18. Custom Creations-Jewelry
- 19. Gems and Crystals Unlimited-Jewelry
- 20. The Gem Flume-sluice box
- 21. Blue Duck Gem and Minerals-Minerals
- 22. Marble Gems-Minerals
- 23. Alluvium Designs-Jewelry
- 24. Nonesuch-Minerals
- 25. Unconventional Lapidarist-Minerals
- 26. Amber America-Jewelry
- 27. Geodite-Minerals
- 28. C & N Rocks-Minerals
- 29. Marble Arts-Decorative stone art
- 30. Imperial Gems-Beads

Note-most dealers carry a variety of merchandise other than the primary listed by their name.

EXHIBITS and EXHIBITORS

- 1. Delta State University
- 2. University of Mississippi
- 3. Mike Howard-Arkansas geologist
- 4. Memphis Stone and Gravel Company
- 5. Natasha McCallister United States Geological Survey
- 6. Charles Hill.-Gemstone spheres
- 7. The MAGS Collection:
 - The Frank Theibold Mineral Collection
 - The Roger Van Cleef Education Program
 - Fluorescent Minerals
 - Rock Food Table with complete menu
 - Mineral and Rock Display Boxed Collection
 - Thumbnails Collection-new collection, first show exhibit from the estate of Gene Newsom (Ark, geologist)

ROCKZONE- KIDS AREA

- 1. Gem Dig
- 2. Rocks Around the Clock
- 3. Paint your Rock
- 4. Geode Bowling-new feature
- 5. Pose with a dinosaur-new feature
- Gem Flume, panning for precious gems and minerals

SPONSORS

- J. Cooper Moving and Storage
- 2. Enviro-Tek
- 3. Memphis Stone and Gravel

PARTNERS

- 1. Ronald McDonald House of Memphis
- 2. Memphis Botanic Garden



SPECIAL EVENTS

- . Geode cracking, sluice box, grab bags, T-shirts
- 2. Door prizes every hour or more
- 3. The Greatest Easter Basket Giveaway in History 3:00 pm Sat and Sun.



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Dixie Mineral Council Field Trips

The Southeast Federation of Mineralogical Societies, Inc.

DMC Program of the SFMS Field Trip Committee - Copyright @ All rights reserved.



An Official Field Trip of The Cotton Indian Gem & Mineral Society, Stockbridge, GA (HOST) An Official Field Trip of the (enter your associated club's name here!)

> Saturday April 30, 2011 Girard, Burke County, GA Meet at 10:00 AM ve from Girard Post Office at 10:30 AM "Savannah River Agate"

WHERE: The River road outside of Girard, GA

WHEN: Saturday April 30, 2011

TIME: Meet at 10:00 AM and leave the Girard city Post Office on Hwy. 23 at 10:30 AM

Children and Pets: Children and pets are welcome but need to be supervised as we will be hunting on a dirt road

Trip: Beautiful Savannah River Agate has been collected at this location for years. I have been told that there is as much material here today as

Collecting: We will be collecting Savannah River Agate, fossils and micro minerals. This material is actually a conglomeration of agate, jasper, chert, and opalite all mixed together to form a layered specimen that will tumble or cab into beautiful display pieces. This rock occurs as black and brown mottled agate and in a large range of pastel colors from greens to yellows to violets. The fossils you may find are from 30-35 million years old Oligocene age deposits. The micro minerals are located in vugs of the agate/chert rock.

Special Conditions: We will be hunting in the roadway and road cuts only. Do NOT leave the road cuts. Please stay off of private property. Please do not go to the collecting site ahead of the group.

Bring: You will need to bring a rock hammer and scratching tool to collect the agate. You can dig if you want but make sure you fill in your holes after you're finished. If you plan to look for micro-minerals by busting the larger agate/chert specimens, you will also need some chisels and a sledge. More importantly you NEED eye protection (face shield would be best) and long heavy pants as this agate can act like shrapnel when cracked with a rock hammer or sledgel As always, bring your lunch, plenty of fluids, some bug spray, sun screen, a hat, gloves, sturdy shoes and lots of 5 gal. Buckets (Trust me - you will need them!).

Where to meet: We will meet at the Girard city Post Office on Hwy. 23

Directions: From I-20 take Hwy. 520 (west of Augusta) south to Hwy. 56 and travel south. Go through McBean (do not take Hwy. 56 Spur). Turn left on Hwy. 23 to Girard and meet at the Post Office at 10:30 AM.

Drive time: From Atlanta 3 to 3 1/2 hours.

Harry Hyaduck 678-464-4462 Email hyaduckh@yahoo.com Kim Cochran 770-979-8331

DMC FIELD TRIPS:

Year - 2011

January - Jacksonville Gem & Mineral Society (Jacksonville, FL)
February - Rome Georgia Mineral Society (Rome, GA)
March - Gaston County Gem, Mineral & Faceting Club (Gastonia, NC)
April - Cotton Indian Gem & Mineral Society, Inc. (Stockbridge, GA)

April - Cotton Indian Gem & Mineral Society, Inc. (Stockbridge, GA)
May - Charlotte Gem & Mineral Club (Charlotte, NC)
June - Northeast Georgia Mineral Society (Cornelia, GA)
July - Gem and Mineral Society of Franklin, NC (Franklin, NC)
August 13 - Columbia Gem & Mineral Society (Columbia, SC)
September - Georgia Mineral Society (Atlanta, GA)
October - Memphis Archaeological and Geological Society (Memphis, TN)
November - Aiken Gem and Mineral Society (Aiken, SC)
December - Athens Rock and Gem Club (Athens, GA)

Year - 2012

Tear - 2012
January - OPEN
February - Western South Carolina G&MS (Greenville, SC)
March - Tennessee Valley Rock and Mineral Club (Chattanooga, TN)
April - Mobile Rock & Gem Society, Inc. (Mobile, AL)
May - Mississippi Gem and Mineral Society (Jackson, MS.)

June - Montgomery Gem & Mineral Society (Montgomery, AL) July - Southern Appalachian Mineral Society (Asheville, NC)

August - Knoxville Gem & Mineral Society (Knoxville, Nb.)
September - Lowcountry Gem & Mineral Society (Knoxville, TN)
September - Lowcountry Gem & Mineral Society (Charleston, SC)
October - KYANA Geological Society (Louisville, KY)
November - Mid-Georgia Gem and Mineral Society (Macon, GA)

December - Middle Tennessee Gem & Mineral Society (Murfreesboro, TN)

May - The Gem and Mineral Society of Lynchburg Virginia, Inc.

DMC Program / SFMS Field Trip committee's purpose:
To collect field trip information from it's member societies; schedule and coordinate field trip dates; disseminate field trip information to all menclubs so that each member society may publish this information as one of their "official" scheduled field trips.

World Wide Web site for the DMC is:

http://www.gamineral.org/dmc.htm

DMC is a program of the Field Trip Committee of the Southeast Federation of Mineralogical Societies, Inc. Copyright © All rights reserved.

"Earth first...we'll collect on the other planets later."

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Memphis Mineral, Fossil, & Jewelry Show

April 23-24, 2011

MAGS MEMBERS IT IS YOUR TIME AND TURN TO HELP THE SHOW

Ways and things you can do help

- 1. Become or recruit sponsors (more information on next page)
- Table Sponsors
- Friend of the show sponsor
- 2. **Show tickets**-Provides MAGS members the opportunity to promote the show by distributing tickets to the general public. Ticket procedures:
 - Available for use by current MAGS members. No exceptions.
 - Member must sign each ticket. One admission per ticket.
 - Ticket holder is admitted free to show.
 - You are not responsible for tickets that are not used.
 - At the conclusion of the show each member must pay- by June 1- the show \$2.00 for each redeemed ticket. After June 1 you must pay \$3.00 for each redeemed ticket.

3. Handouts

- Notepads
- Small poster
- Easter Basket Giveaway

4. Volunteer

	Volunteer					
MAGS Volunteer Work Schedule						
Day	hours	activities				
Thursday-21	9-6	• Tables delivered, shed contents delivered, Show layout				
·		• At 6:00 pm grab bag packing and pizza party				
Friday-22	9-9 pm	Complete Show layout				
		Dealers move in				
		• 6:30 pm show dinner and birthday party				
		• Cleanup and final preparations				
Saturday-23	9-6pm	Show opens to public				
		• Large number of volunteers needed every hour for				
		ticket booth, info/member desk, Rockzone, general				
		Show support				
Sunday-24	10- 8 pm	• Show opens to open public				
		• Large number of volunteers needed every hour for				
		ticket booth. info/member desk, Rockzone, general				
		Show support				
		• Show break down, clean up-need lots of help				

5. Donations-

- Coke products including water, can or small bottles
- Packaged snacks, crackers, nuts
- Material for the Rockzone, grab bags

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"Engage Cloaking Device, Mr. La Forge"

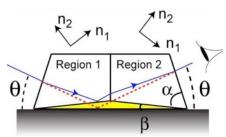
The next time Captain Picard has to confront a cloaked Romulan starship the Enterprise may have its own cloak, because of the recent work of several groups of physicists. And the invisibility cloaks make use of a material very familiar to MAGS members: cal-

The idea of making objects that can be seen with the naked eye invisible is not just science fiction any more. The first invisibility cloaks were limited to microwave wavelengths, but the latest work deals with shielding large objects lying on a plane from detection at visible wavelengths. The next step will be for what the researchers call "free-standing cloaks." It's a more difficult problem, but just a few years ago the entire idea was nothing but a plot device on Star Trek TV shows and Harry Potter books and movies.

The physical principle involved is refraction of light rays so that they reach the eye from the direction they would have come from if the cloaked object were not there. Carpet cloaks were proposed in 2008 by John Pendry of Imperial College, London, as a way of extending the operating range of microwave invisibility cloaks. These devices are placed over an object sitting on a reflective plane and alter the path of light bouncing off the object in such a way that the light appears to have bounced straight off the plane.

The latest devices follow on from the work of Yu Luo of Zhejiang University in China and colleagues who realized last year that

carpet cloaks can be built from homogeneous materials, as long as those materials are anisotropic (having properties that differ according to the direction). The devices are built from the naturally occurring crystalline material calcite, the refractive index of which depends on the relative orientation of an incoming light wave's polarization axis and the calcite's optical axis.



Fooling an observer—To the observing eye on the right, the ray of light (blue line) is reflected from the object but. appears to reflect from the bottom surface (red dashed line).

George Barbastathis and coworkers at the Singapore-MIT Alliance for Research and Technology (SMART) in Singapore made their cloak by gluing together two pieces of calcite with differently oriented optical axes, fixed such that light waves with a given polarization that bounce off a wedgeshaped object placed underneath the cloak emerge traveling in the same direction and at the same height as if they had bounced straight off the mirror beneath the object.

That's it in outline. Those of you who want the technical details can get more information in this article: http://physicsworld.com/ cws/article/news/44641.

MAGS Members: Sell Table and/or Friends of the Show sponsorships and you may win.

For every \$25 sales you generate you will receive one ticket that may win you gift certificates to spend at the Show.

- Sell one \$100 sponsorship you will receive four tickets.
- Sell one \$25 sponsorship you will receive one ticket.
- Sell five (5) \$25 sponsorships you will receive 5 tickets.
- You may purchase sponsorships for yourself.

Your ticket(s) may be a winner. Friday Show dinner tickets will be drawn & winner(s) will receive:

- First place-show gift certificates equal to 10% of total Table/Friend of the Show sponsorships
- 2. Second place—Show gift certificates equal to 5% of total Table/Friend of the Show sponsorships sales
- Third place-Show gift certificates equal to 5% of total Table/Friend of the Show sponsorships sales when total sponsorship reaches \$2,500 See theearthwideopen.com

for full details.

New MAGS Library Books

Faulkner, Living Corals Arem, Gems And Jewelry David, Conversations With Mummies Worthington, \underline{A} Thorough and Accurate History of Genuine Diamonds In Arkansas

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MAGS NEWS

MISSING MEMBER

If you live on Davies Manor Road, Bartlett, Tennessee, 38134, please call or email me to update your contact information in our membership records.

Thanks!

Neville Mayfield Membership Director enmayfield@gmail.com 901-386-3006

MAGS member Neville Mayfield passed along the following item:

For those MAGS members who craft interesting items from

the things collected on our field trips or other artistic or crafting activities.

Etsy.com is the largest auction site in the world for hand-crafted items. (900 million page-views per month!).

Listings are very reasonably priced; 20 cents per listing plus 3.5% of sales.

If you'd like to try selling your hand-made items, and don't already know about Etsy.com, give it a try. Details are on the site, and you can read Elaine Zimmermann's full article in the Commercial Appeal from 2-25-11.

Calendar

March 31, 2011

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

April 8, 2011

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

April 23-24

2011 Memphis Mineral, Fossil, & Jewelry Show, Agricenter International

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