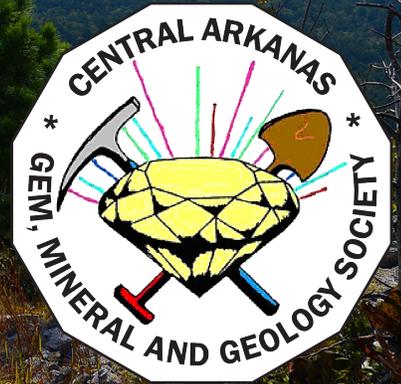


# ARKANSAS ROCKHOUND NEWS



## MISSION STATEMENT

The Central Arkansas Gem, Mineral and Geology Society is dedicated to promoting interest in mineralogy and the related sciences, interest in lapidary and the related arts; to encourage field trips and the enjoyment of collecting and preserving minerals as they occur in nature, and the study of geological formations, especially those of our Natural State of Arkansas.

We are a small group of people that enjoy getting together to share our common interests.

Regular meetings are at the Terry Library 6:30 PM on the fourth Tuesday of the month (except December)

Terry Library is located at:

2015 Napa Valley Dr.  
Little Rock, Arkansas  
72212

AUGUST 2018

## Rockhound Soapbox...

by John Martin, AFMS Conservation & Legislation Chair, AFMS News June-July 2018

A committee is defined as a group of people chosen or appointed to perform a specified service or function, as to investigate or act upon a particular matter.

The United States of America is over 3.8 Million Square Miles in size and of that over 2.28 Million Square Miles (1,459.2 Million Acres) is "Public Lands" owned by the taxpayers of the United States and managed by various agencies of our Federal Government for and on behalf of the Citizens of the United States. Some of this land is not accessible to the American Public as in Military Installations and some parts of National Monuments, National Forests and National Parks.

The AFMS Conservation and Legislation Committee is tasked to investigate and act upon matters concerning Recreational Rockhounding on your Public Lands. This is a monumental task when all of the Public Lands of the United States are considered. There are some public lands in all 50 states and some of this land is appropriate to support Recreational Rockhounding activities. This 1,459.2 Million Acres of public land in all fifty states is more area than can be assessed and investigated for potential restrictions, loss of access and closure to the Recreational Rockhound than one person can effectively cover. With tens of thousands of AFMS Members in the United States, statistically, there should be at least one AFMS member with the desire and passion in each state to help keep Recreational Rockhounding a viable recreational activity that all can enjoy.

...continued on page 3

ARKANSAS ROCKHOUND NEWS is the official newsletter of the Central Arkansas Gem, Mineral and Geology Society. It is published monthly. To submit information, articles or photographs please email Nikki Heck, [nikkiheck@windstream.net](mailto:nikkiheck@windstream.net).

## 2018 Officers & Committee Chairs

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Vice President, Amy Thor  
501-909-3022

Secretary, Daniel Butcher  
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Programs, Vacant

## *Meeting minutes...*

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**June 26, 2018**

*by Nikki Heck*

17 were in attendance for the June meeting.

Old business: Daniel B.'s wife makes t-shirts and may be making our club shirt.

Field trip news: A group went to Magnet Cove creek to look for pyrite recently.

A possible future trip to Subiaco to look for fossils was discussed.

New business: The Department of Agriculture is building a rock wall and Barbara asked that if you have yard rock you would like to contribute to contact her.

Layman Library's theme this summer is "Libraries Rock" and have asked if we would be interested in having some vendors set up in July for a weekend.

Barbara mentioned that the MWF is seeking delegates for the conference but it is the same weekend as our rock show.

Meeting adjourned at 6:52 and we held our raffle.

Mike Howard gave a presentation on "Minerals Unique to Arkansas." He has graciously allowed us to print the presentation in this and future newsletters (see page 4).

## From the editor...

Well summer has flown by us and fall is upon us. School is back in session and before you know it, it will be Christmas. So how was your summer? Any fun rock related trips? I would love to hear your stories and maybe publish some photos in an upcoming newsletter!

Fall also means it's show time! Our show will be October 6th and 7th. Sign-up sheets will be available at the August meeting and I will send email reminders as well. Please consider volunteering your time. The show would not be possible without our members so let's make this the best one yet. We had great attendance last year but I bet we can beat it!

Finally, be sure and check out the new series from Mike Howard on "Minerals Unique to Arkansas." He gave us the live version in June and has graciously allowed for reprint. I will have 3 minerals featured in each newsletter.

Don't forget to send me any ideas or suggestions you have for future newsletter content. Thanks!

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*continued from page 1...*

With nearly a decade of a being an active member and chair of the AFMS Conservation and Legislation Committee I know how involved and time consuming this activity can be. Nevertheless the work must continue if Recreational Rockhounding is to survive in this time of change and regulations. I also recognize and accept the fact that a committee of 50 is as non functional as a committee of one. I am now looking to find seven to ten pro-active Rockhounds within the AFMS who have the desire and passion to be part of a committee that will be trying to preserve Recreational Rockhounding as a functional activity on your public lands. If you are one of these AFMS Rockhounds please contact me and we will discuss your appointment to this important committee. I can be reached at either of the email address above.

I thank you for your time and consideration.

## Brad's bench tips...

### Setting a Rivet

Riveting is usually done with a cross peen hammer, but I've found it's a lot easier for me to hit the rivet wire when using a small ball peen - and the smaller the better.



Shown here is one I typically use. It's about 3/8 inch diameter on the back of a chasing hammer, but I've been thinking that a 3/16 inch ball might be even better. Look for a yard sale hammer you can modify to work.

### Sheet Wax with Adhesive

While shopping in the Los Angeles jewelry district for supplies for our class, I found a new product that may interest some of you. Often before casting, I want to increase the thickness of a model by adding a layer of wax on the back side. For instance, models like a leaf or a flower petal do not cast well unless you add a little extra thickness. The problem is trying to apply a coating of wax that's smooth and even.

The new product I found is an easily moldable sheet wax with an adhesive coating. This lets me easily add thickness to a very thin model. With a leaf, just press it onto the wax, trim excess wax around the outer edges, and then gently bend the sandwich to the contour you would like. The wax is available in a number of different thicknesses from about 26 ga to 14 ga.

If interested, my supplier is:

Jewelry Tools & Supplies  
412 W. 6th Street #1011  
Los Angeles, CA 90014  
[213 624-8224](tel:2136248224)  
[jtstech@sbcglobal.net](mailto:jtstech@sbcglobal.net)

See all Brad's jewelry books at [Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)

## Of interest...

### Minerals Unique to Arkansas - A talk given to CAGSMAGS

By J. M. Howard

There are 13 minerals first discovered and scientifically described for science from Arkansas, making them unique to the State: schorlomite (1846), rectorite (1891), laubmannite (1949, discredited 1990, P. Dunn), miserite (1950), kimzeyite (1961), benstonite (1962), kidwellite (1979), eggletonite (1984), strazcekite (1985), delindeite (1987), lourenswalsite (1987), mahlmoodite (1993), haggertyite (1998), and artsmithite (2003). In upcoming newsletters we will look at each of these minerals beginning with the earliest discovery.



Schorlomite, AR Hwy 51, Magnet Cove, AR

#### Schorlomite

Schorlomite was the first new mineral species to science to be discovered in Arkansas. In 1846, C. U. Shepard gave the first description of this mineral in the American Journal of Science. He named the mineral for its similar physical appearance to schorl, the common black tourmaline. Schorlomite is in fact a high titanium garnet from Magnet Cove, Hot Spring County, Arkansas.

Shepard's description and chemical analyses of schorlomite set off a firestorm of publications

relating to the mineral's chemistry, questioning if the mineral truly existed. Several papers by well known mineralogists, including three papers by C. Rammelsberg of Germany, two by J. D. Whitney of the USA, and Crossley's chemical analysis in J. D. Dana's Descriptive Mineralogy - all by 1852, were published. In 1877, Knop gave yet another analysis of schorlomite and Rammelsberg saw fit to comment on it in 1886. Rammelsberg recognized in his later paper that if some of the titanium was considered to be as  $Ti_2O_3$ , then atomically the mineral was similar to other known garnet members. In retrospect, it is apparent that some of the confusion over this mineral's chemistry is due to its very similar appearance and close association with melanite garnet. Some of the researchers apparently analyzed melanite and schorlomite together without recognizing that they had two distinct species. Chemical analyses of schorlomite always give over 20 percent titanium dioxide, whereas melanite gives analytical values ranging from 1 - 5 percent.

Schorlomite is scarce as crystals, but may be collected from apatite veins where it grew around white to cream fluorapatite needles. J. F. Williams (1891) mentions that apatite is almost always intergrown with schorlomite at its type locality. Fragments of schorlomite and melanite are abundant as residual minerals in the deep soil profiles developed over ijolite in the central portion of the Magnet Cove intrusion. These minerals are seen after heavy rains where plowing, road building, or house construction has disturbed the soil. However, well-formed crystals are rare, most samples consisting of broken fragments or irregular masses. Those few schorlomite crystals I have seen express both dodecahedral and trapezohedral faces.

#### Rectorite

Rectorite was first described by R.N. Brackett (chemist) and J. Francis Williams (geologist), both of the Arkansas Geological Survey in 1891. The original material came from Marble Township, about 24 miles north of Hot Springs, Garland County. Charles F. Brown of Hot Springs supplied the mineral to the Survey. His specimens had fine doubly terminated quartz crystals to 1.5 inch in length embedded in the mineral, like at the well known Jeffrey quarry locality.

Rectorite has been shown to consist of interstratified pyrophyllite- vermiculite (mica minerals). The fresh material is pearly white, but iron oxide commonly causes a tan color. When dry, rectorite forms thin to thick leathery mattes, but when discovered in quartz veins, rectorite has a paste-like consistency, similar to petroleum jelly.

Rectorite occurs in quartz veins with cookeite (a lithium chlorite) and ankerite from a number of localities along a zone termed the Frontal Belt of the Ouachita Mountains in Pulaski, Perry, Saline, Garland, and Montgomery Counties.

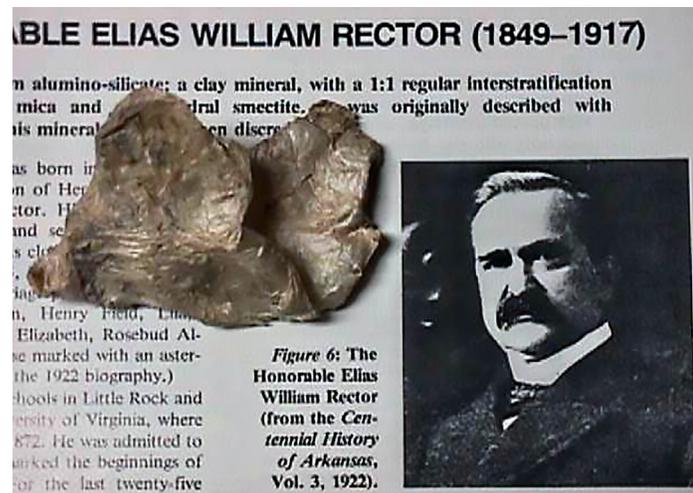
It is named after Arkansas Governor E. W. Rector (1816-1899).

Refs:

Engel, A. E. J., 1951, Quartz crystal deposits of western Arkansas: USGS Bulletin 973-E, p. 173-260.

Miser, H.D. and Milton, Charles, 1964, Quartz, rectorite, and cookeite from the Jeffrey quarry, near North Little Rock, Pulaski County, Arkansas: AGC Bulletin 21, 29 p.

Newsom, Gene, 1978, The Jeffrey quarry: Mineralogical Record, v. 9, no. 2., p. 75-79.



Rectorite, Jeffrey quarry, North Little Rock, Pulaski Co., AR

### Laubmannite

Laubmannite was first described in 1949 by Clifford Frondel, noted mineralogist, from a specimen that came from near Shady in Polk County. It was described as a new species of hydrous iron phosphate. Type specimens were housed in the Harvard Mineralogical Museum and the US National Museum (Smithsonian) collections.

The mineral occurs as botryoidal (spherical) aggregates having a radial fibrous structure (similar to wavellite in habit and form). Laubmannite fills fractures in novaculite and is often associated with other iron phosphates, including rockbridgeite, beraunite, strengite, cacoxenite, and kidwellite. The mineral is often greenish brown to brown and exhibits zonal banding of various colors.

In 1990, Dr. P.J. Dunn of the Smithsonian published a critical reexamination of laubmannite using the type specimens. By modern X-ray diffraction and microprobe techniques, he showed that "laubmannite" consists of a variable mixture of other iron phosphate minerals, including dufrenite, kidwellite, beraunite, and an unidentified species. Therefore, the name is not valid and has been discredited. However, many specimens are still present in collections, purchased when the name was valid. Laubmannite was named for Heinrich Laubmann (1865-1951), German mineralogist.

Refs:

Dunn, P.J., 1990, Andrewsrite and laubmannite formally discredited: American Mineralogist, v. 75, p. 1197-1199.

Frondel, Clifford, 1949, The dufrenite problem: American Mineralogist, v 34, p. 513-540.

HELP!  
Send in your:  
stories, articles, tips,  
photos  
suggestions or questions!  
Submissions due by the  
28th of each month.

*Field trips...*

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**Magnet Cove Creek - photos by Barbara C.**





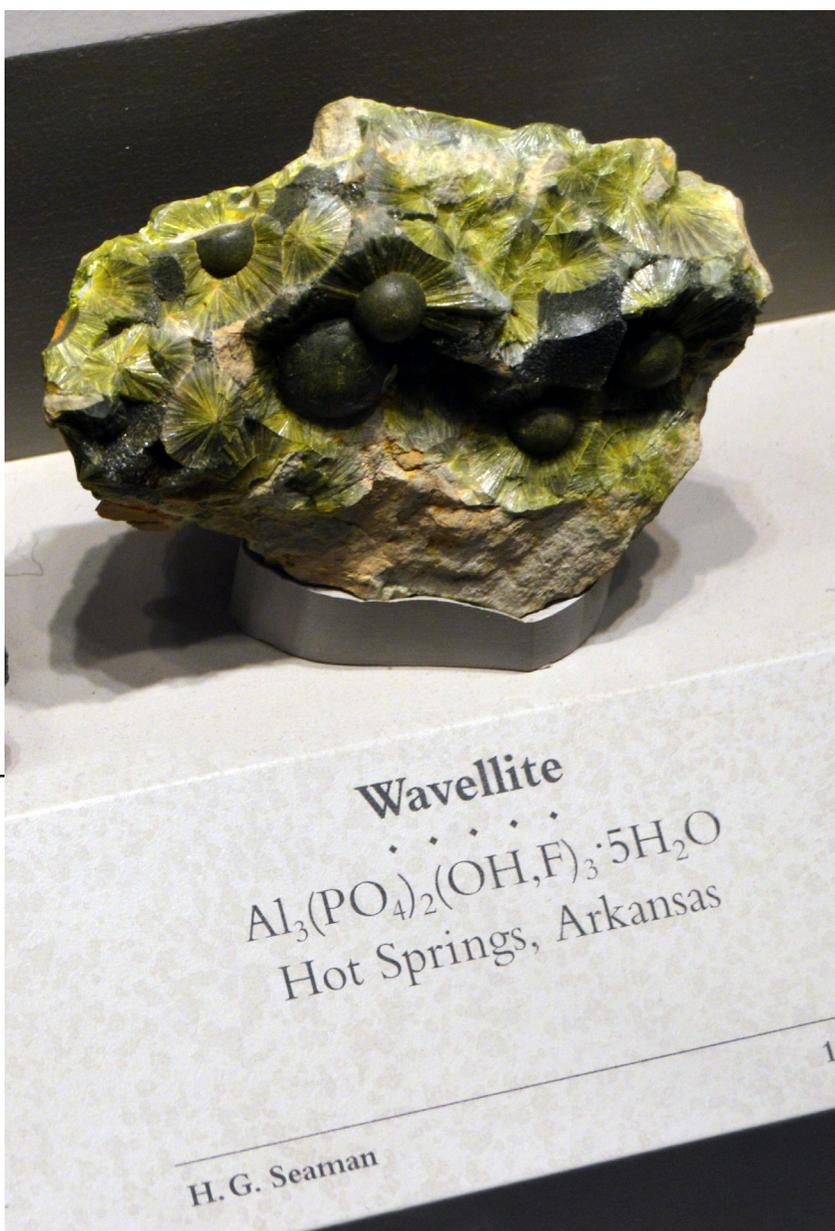
**Ouachita River - photos by Barbara C.**



## Kids Corner...

Brandon Heck is the Junior Editor of Arkansas Rockhound News. He is 10 years old and has enjoyed rockhounding since he could walk. In each issue he will share information about minerals that he loves and about his adventures in rockhounding.

# Arkansas Minerals in the Smithsonian Wavellite



Have you ever visited the Smithsonian National Museum of Natural History in Washington D.C.? I have not but my Mom has. She said the mineral hall is really cool. I hope to visit it someday. There are minerals from all over the world, even Arkansas on display there. We are known for our Wavellite, it's just one of Arkansas's minerals on display there.

**Luster:** Vitreous, Greasy, Pearly  
**Transparency:** Transparent, Translucent  
**Color:** Green to yellowish-green and yellow, greenish white, yellowish-brown, brown, brownish-black, blue, white and colorless  
**Streak:** White  
**Hardness:** 3.5-4  
**Crystal system:** Orthorhombic  
*\*data collected from mindat.org*

## Upcoming area shows...

### August 2018-September 2018

**31-3—RALEIGH, NORTH CAROLINA:** Annual show; Treasures of the Earth, Inc.; NC State Fairgrounds, 1025 Blue Ridge Rd; Fri. 12-6, Sat. 10-5, Sun. 10-5, Mon. 10-4; Adults \$5, Children 16 and under free; Vendors from across the United States bring a variety of merchandise to you. Their items include 14K and sterling silver, classic, estate, fashion and handmade jewelry. Wide selection of custom faceted gemstones • Loose stones, beads and findings, pearls. Mineral specimens, rocks, fossils, crystals. Jewelers and wire wrappers who can design, remount and set stones and make repairs on site ; contact JaneWestbrook, PO Box 59, Gloucester Point, VA 23062, (804)-642-2011; Email: jane@treasuresoftheearth.com; Website: www.TreasuresOfTheEarth.com

**31-3—HENDERSONVILLE, NORTH CAROLINA:** Annual show; Henderson County Gem & Mineral Society; Whitmire Center, 301 Lily Pond Rd.; Fri. 10-6, Sat. 10-6, Sun. 10-6, Mon. 10-5; adults \$5, children under 12 free with an adult; exhibits, demos, wheel of fortune, refreshments, door prizes hourly, raffle and grand prizes; contact Diane Lapp, PO Box 6391, Hendersonville, NC 28793, (828) 775-8098; Email: dlapp\_2000@yahoo.com; Website: HCGMS.com

### September 2018

**7-9—WINSTON-SALEM, NORTH CAROLINA:** Annual show; Forsyth Gem and Mineral Club; Education Bldg. Fairgrounds, Gate 9, from 27th Street; Fri. 10-7, Sat. 10-7, Sun. 12-5; Adults/Seniors \$3, Students through 12grade free with adult, Children under 6 free; 47 Annual Jewelry, Gem, Mineral and Fossil Show. Dealers featuring minerals, fossils, jewelry, supplies, beads, decorator items, cutting materials and gem mining. Hourly door prize drawings. Watch demonstrations of wirewrapping, cabochon cutting and geode cutting (not breaking).View over 35 displays. ; contact William A.Marion, 1163 Bear Creek Church Rd, Mocksville, NC 27028, (336)-416-9001; Email: mariona1@yadtel.net; Website: www.forsythgemclub.com

**8-9—SILOAM SPRINGS, ARKANSAS:** Annual show; Northwest Arkansas Gem & Mineral Society; Clubhouse, Hwy. 43 and Lawlis Rd., 14029 White Oak Lane; Sat. 9-5, Sun. 10-4; free admission; tailgate swap, free setup, rock-related auction Saturday; contact Dave, 14029 White Oak Lane, Bentonville, AR 72712, (479) 721-1579; Email: hulagrub@aol.com; Website: nwarockhounds.org

**21-23—MARIETTA, GEORGIA:** Annual show; Damian w/ Bellpoint Promotions; Cobb County Civic Center , 548 S. Marietta Pkwy; Fri. 10-6, Sat. 10-6, Sun. 10-5; \$5, under 16 free; Please join us for an exciting event featuring amazing gem, mineral, jewelry, fossil, bead and metaphysical dealers selling their beautiful finds from all over the globe. ; contact DamianBelgali, (678)-852-8273; Email: mbellpoint@gmail.com; Website: www.bellpointpromotions.com

**21-23—ARDEN, NORTH CAROLINA:** 9th Bi-Annual Asheville, North Carolina Gem, Mineral and Fossil Show; Mountain Area Gem & Mineral Association; Camp Stephens, 263 Clayton Road; Fri. 9-6, Sat. 9-6, Sun. 10-4; free admission, rain or shine; indoor and outdoor vendors with rocks, gems, crystals, minerals, fossils, artifacts and meteorites from North Carolina and around the world; contact RichardJacquot, PO Box 542, Leicester, NC 28748, (828) 779-4501; Email: rick@wncrocks.com; Website: www.americanrockhound.com

**28-30—BEREA, OHIO:** 20th annual GemStreet USA wholesale and retail show; GemStreet USA; Cuyahoga County Fairgrounds, Jr. Fair Bldg., Bagley Road entrance; Fri. 10-6, Sat. 10-6, Sun. 11-5; adults and seniors \$7 (good all 3 days), \$1 off coupon on website, kids under 12 and Scouts in uniform free; vendors from around the country, rocks, minerals, gemstones, jewelry, beads, fossils, meteorites, petrified wood, carvings, tools, supplies, repairs, decorative accessories, free parking, door prizes; contact Jane Strieter Smith, PO Box 770680, Lakewood, OH 44107, (617) 512-6510; Email: JaneStrieter1946@gmail.com; Website: GemStreetUSA.com

**On-Line MEMBERSHIP FORM**  
**Central Arkansas Gem, Mineral and Geology Society**  
**Membership Dues: \$15 / year Individual; \$25 / year Family**

Make checks payable to: "Central Arkansas Gem, Mineral and Geology Society".

Name: \_\_\_\_\_ Date \_\_\_\_\_  
Business Name: \_\_\_\_\_ Birthday: Mo. \_\_\_\_\_ Day \_\_\_\_\_  
Address: \_\_\_\_\_ Anniversary: Mo. \_\_\_\_\_ Day \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone No. \_\_\_\_\_  
Cell Phone \_\_\_\_\_  
Email address: \_\_\_\_\_ Occupation \_\_\_\_\_

How would you like your Club Newsletter delivered? U.S. Mail \_\_\_\_\_ Download From Club Web site \_\_\_\_\_

Editor notifies members by email, with a link, when the Club Newsletter is Posted on the Web site.

Family Members are considered as all of those living at the above address .

Please list their names, Birthday Mo./Day, if applying for a Family Membership.

Because of limited space, only one name will appear on the newsletter mailing label.

How did you hear about our Club?

\_\_\_\_\_

How long have you been interested in this hobby? \_\_\_\_\_ Do you have any equipment? \_\_\_\_\_

I would be interested in Attending \_\_\_\_\_ Hosting \_\_\_\_\_ work shop in \_\_\_\_\_ (subject)  
on \_\_\_\_\_ (day of week)

Please circle your club interests:

Mineralogy    Lapidary    Fossils    Field Trips    Geology    Carving  
Collecting    Jewelry Making    Casting    Silversmithing    Beading    Wire Wrap  
Other \_\_\_\_\_

Outside Interests: \_\_\_\_\_

These will be listed in the Membership Directory, so that members can find others with similar interests.

In what areas would you be able to assist the Club:

Social    Publicity/Advertising    Educational    Junior Programs    Membership  
Annual Show    Committee Work    Newsletter Articles    Mineral Display

Other: \_\_\_\_\_

What would you like to see the club focus on in the coming year? \_\_\_\_\_

\_\_\_\_\_ I do not want my name to appear in the Club Directory.

\_\_\_\_\_ My name and address can appear, but NOT my Phone Number.

\_\_\_\_\_ Please do NOT include specifically the following info about me: \_\_\_\_\_

Please Mail to:

**CAGMAGS, c/o Sarah Dodson, P.O. Box 241188, Little Rock, AR 72223**

# **46th ANNUAL**

**GREATER LITTLE ROCK AREA**

**MINERAL, FOSSIL, GEM & JEWELRY SHOW**

**OCTOBER 6<sup>th</sup> & 7<sup>th</sup> 2018**

**9 AM TO 5 PM**

**JACKSONVILLE COMMUNITY CENTER**

**5 MUNICIPAL DRIVE**

**JACKSONVILLE ARKANSAS**

**FREE ADMISSION**

**22 Dealers**

**Demonstrations, Hourly Door Prizes,**

**Kids Dig**

**Sponsored By**

**CENTRAL ARKANSAS GEM, MINERAL & GEOLOGY SOCIETY**

**CAGMAGS – [www.centralarrockhound.org](http://www.centralarrockhound.org)**

**Show Chairman John Schoeneman 870-672-2225**

**[john@shupeandassoc.com](mailto:john@shupeandassoc.com)**



Central Arkansas Gem,  
Mineral & Geology Society  
PO Box 241188  
Little Rock, AR 72223

We need volunteers for  
the 46th annual show!  
Dates are October 6th  
& 7th. We will have a  
sign up sheet at the  
meeting.

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## 2018 Meeting Dates

August 28th  
September 25th  
October 23rd  
November 27th

\*\*Note- any changes of  
meeting location will be  
announced via email and  
phone\*\*

## Join CAGMAGS!

Membership Dues - \$15 Individual,  
\$25 Family (Yearly)

Visit [www.centralarrockhound.org](http://www.centralarrockhound.org)  
to learn more!