



Rocky Trails



October 2022

Volume 16 Issue 10

The Newsletter of the Columbia Gem and Mineral Society

EDITOR'S MESSAGE

Hi Folks,

Welcome to all continuing and new members. It's great that summer is over and fall arrived. This means a Halloween version of the club picnic (info on page 9) is happening soon and our annual gem and mineral show will be here before you know it. It's great to be getting out of the house!

We are currently making the last preparations for our 2022 annual show (see fliers on page 18 of this issue of the RT). If you haven't already, please consider volunteering for the show (for more info see page 2 and the form on page 18). A sign-up sheet will be passed around at our October meeting and Terri Tokaz will be coordinating all of the volunteer help. Thank you Terri! We are really looking forward to a great show this year!

A big thanks goes out to Bobby Horton of West Columbia, neighbor of Gary Hert, for his generous donation of gems and minerals to CGMS. This donation will help us in our mission of Earth Sciences education and provide grab bag material for our upcoming show.

We are again at that point where we need to find officers for the club. A special thanks to Jim Cobb for throwing his name in for club president and for assisting in the officers nominating committee. Positions that need to be filled for 2023 include vice-president, secretary, fieldtrip coordinator, show committee and potentially a few others. We are looking for some new folks to join us!

Cheryl Coker has agreed to head up a committee that will try to find us a new shop location. She's looking for assistance in tracking leads and obtaining funding. We all want a new shop, so pitch in and let's make it happen.

Be sure and come to the October meeting at Hope Church. I will be giving the presentation and promise to educate and enlighten everyone in attendance. You may end up wanting to make a trip out west!

Stay in touch and don't take any risks.

Ron Ahle

NEXT MEETING

October 17, 2022

Socializing and refreshments at 7:00 pm.
Meeting at 7:30 pm.

The October 2022 CGMS meeting will be held at **Hope Church** located at 2609 Seminole Road. It is off Broad River Rd. and is easily accessible from I-26 or I-20. Use the side door (close to the main part of the parking lot). We will meet in the Fellowship Hall.

PROGRAM:

Ron Ahle will talk about the Paleo Geology of Wyoming. This will include photos of his trip to Wyoming in the summer of 2022.

Door Prizes will be provided by Tammy Early.

Refreshments will be provided by Sheila Frame and Susan Bloodworth.

Executive Meeting

October 24, 2022

Dinner: 6 pm, Meeting: 7 pm
Grecian Gardens, 2312 Sunset Blvd.,
West Columbia.

Members are welcome to attend. Only executive members can vote.



See more details on page 7.

[54th Annual CGMS GEM AND MINERAL SHOW](#)

[November 18-20, 2022](#)

[Jamil Temple, Columbia, SC](#)

[Planning Update](#)

CGMS will hold our 54th annual Gem and Mineral Show the weekend prior to Thanksgiving at the Jamil Temple. The Show is well-attended. It is a pleasure for our customers and club members, good business for our vendors, and educational for all. It is also the largest source of income for the club, and we hope to use this income to support a new lapidary workshop.

The Show is a success each year due to the efforts of so many of our members, both those who prepare for and organize the Show and those who help at the Show. Thank you to *Terri Tokaz* who agreed to be the Volunteer Coordinator for the Show. She will organize the volunteers who signed up to help, coordinate locations they will work according to need and preference, and will provide a reminder prior to the show. Thanks to all the members who have signed up to help! If you would still like to volunteer, please contact Terri Tokaz, or fill out the attached form and mail to Terri. A description of the various duties was provided in the September Rocky Trails.

Please bring crystals, fossils, tumbled stones, and small rocks to the October 17 meeting for the show grab bags. Thank you to Gary Hert for three large jars of tumbled stones, garnets and mica, to Carol Elliott for a bag of assorted minerals and to Terri Tokaz for Auora fossils and beads. A small group will meet at the Club storage location on Wednesday October 26 to put together the grab bags.

- *A refurbish the display cases day will be announced soon:* the Display Cases are used by members to show material from their collection to educate and inspire our customers. The Show Cases need the wood shored up at the screw holes, new light bulbs and new cloth liners. The Club will cover the material expenses.

GENERAL MEETING MINUTES

September 19, 2022 Monthly Meeting of Columbia Gem and Mineral Society

The Columbia Gem and Mineral Society, Inc. held its monthly meeting on September 19, 2022 at Hope Church. Vice-President Tom Daniels called the meeting to order at 7:30 PM. Tom thanked members who provided snacks and door prizes for the meeting. He also acknowledged new members and visitors in attendance. Tom started the business meeting by talking about nominations for club officers for 2023. Jim Cobb was recognized for agreeing to be nominated for president and Jim (nominating committee chairperson) said that he was working on officer candidates. Jim asked the membership for officer nominations.

Treasurer's Report: Treasurer Angela Valvasori has no new information to report on club funds.

Membership: Sheila Frame reported the club had 8 new members and introduced new members in attendance and visitors. **Field Trips:** no report

Gem and Mineral Show: Sue passed around a time-slotted sign-up sheet for individual volunteers to work the show. Angela gave an informative review of how the show works and why it is important to the club. Terri Tokaz volunteered to coordinate the volunteers during the show. Sharon gave an update on the show vendors. She said we still had space for a few more vendors and asked the members for information on potential dealers. Sue reviewed the publicity needs and asked for assistance with TV advertisement. Gary Hert mentioned that the display cases need repairs and mentioned that we would need a work day with volunteers from the membership to assist with repairs. Sue mentioned that she would be arranging a grab bags (which we sell at the show) assembly day at our storage/shop in the near future. Dee Iurcovich (our show chairman) would like photos from previous shows to put on Instagram.

Programs: Main Program: Catherine Sawyer, Jimmy Armstrong and Susan Richardson gave a presentation on dinosaur fossil digging in Wyoming. They brought many specimens for members to look at. Sue announced that Ron Ahle would be giving a presentation on the paleo-geology of Wyoming and neighboring states at the October meeting.

Upcoming Events: Ron informed the membership about club picnic (October 30, 1:00 pm to 5:00 pm) at Sesquicentennial State Park Shelter #1. Ron told the members that the club would be providing charcoals for cooking and encouraged members to bring meat to grill.

Tom Daniels adjourned the meeting at 9:30 PM.

Respectfully submitted by Ron Ahle

EXECUTIVE MEETING MINUTES

September 26, 2022 Board Meeting of Columbia Gem and Mineral Society

The Columbia Gem and Mineral Society held its executive board meeting on September 26, 2022 at Grecian Gardens Restaurant. Vice-President Tom Daniels called the meeting to order at 7:00 PM. In attendance were Vice President Tom Daniels, Sharon Sterrett (Show Committee), Cheryl Coker (Shop Purchase Committee), Steve Coker (Web Master), Ron Ahle (Secretary), Jim Cobb (Liaison), Gary Hert (Workshop Chair), Sue Shrader (Program Chair), and Terri Tokaz (Show Volunteer Coordinator), John Narang (SC Federation Coordinator) and Angela Valvasori (Treasurer).

Show: The board started the discussion by talking about the need for a workday to repair display cases that are used at the show. Gary said we could work on them at his house and Ron said he could bring the trailer that contains the cases over to Gary's house. The board agreed that we will need about ten people to volunteer to refurbish the display cases in order to finish in one day. A request for volunteers will be made once a date for the workday is selected. Angela, Sue Shrader and Terri Tokaz had a meeting with Dee Iurcovich (our show chairman) and they updated the spreadsheet for running the show with action items that need to be addressed. The show committee will meet in two weeks. Gary Hert mentioned that he would need volunteers to work at the geode booth during the show. The board recognized Terri Tokaz for volunteering to be the show volunteer coordinator. Cheryl Coker volunteered to contact local TV stations to get our show announced on the TV networks. Sharon reported that we have 23 paid vendors and still have room for a few more. Jim Cobb said he would get the state stone for display during our show. Sue encouraged all board attendees to take flyers and hand them out. Sue presented an advertisement budget proposal and a motion was made and approved by the board for the proposed expenditures. Advertisements for this year's show will be in Gardiner Guides, The State Newspaper, Columbia Star, and Free Times and by Facebook Boost. Sue mentioned a grab bag day is being planned at the workshop in October. For show info: cgmsr0cks@gmail.com.

Historian: Angela has taken over some of the historian duties and is currently working on the 2020 and 2021 annual reports. **Program coordinator:** Sue announced that Ron will be giving the presentation on the paleontology of Wyoming at the October meeting. **Rocky Trails:** Ron asked and reminded the board members to send information to him during the first week of each month to be published in the Rocky Trails. **Treasurer:** No report.

Workshop: A discussion on finding a workshop location was addressed by the board. Cheryl Coker took the lead and offered to be the workshop site committee chair. She emphasized how important it was to know how local zoning restrictions could impact the club's ability to own and operate a workshop. She also is looking for volunteers to run down grant money that could help in our purchase.

New Business: Ron reminded the board that the club picnic is set for October 30 at Sesquicentennial State Park. Gary announced that his neighbor made a rock collection donation to the club. Angela will write a "thank you" letter for the donation. Lots of the material will be used for grab bags.

A motion was made to adjourn the meeting and Tom adjourned the meeting at 8:47 PM.

Respectfully submitted by Ron Ahle

About the Program “Paleo-geology of Wyoming and Nearby States with an
Emphasis on Fossil Collecting” By Ron Ahle



Angela surface collecting in Nebraska Badlands (photo by Ron Ahle).

The October, 2022 program will be about fossil collecting sites and Geological features visited by Ron and Angela during a 2022 trip to Wyoming. Fossil collecting sites include the Oligocene White River Formation badlands near Oglala National Grasslands, the Cretaceous Lance Creek Formation at the Harris Ranch near Newcastle, WY, the Eocene (50 mil yrs.) Green River Shale near Kemmerer, WY, and the Eocene (50 mil yrs.) Green River Shale in the “blue forest” near Eden, WY. Ron will review some of the geology of these sites and show some of the fossils that were collected. The fossils collected include Oligocene (30 mil yrs.) reptiles and mammals, Cretaceous (65 mil yrs.) reptiles and dinosaurs, and Eocene (50 mil yrs.) freshwater fish and petrified wood. Ron will also take you back to “The Mammoth Site” in Hot Springs, SD for a closer look at this famous ice age fossil deposit. Ron will also explore several geologic features that give Wyoming its character and explain why Wyoming is such a wonderful vacation destination. These include Bighorn Mountains and Canyon (into Montana), Yellowstone National Park, The Grand Tetons, Flaming Gorge (into Utah) and the Green River (into Colorado). Come to the October meeting to hear and see a first-hand account of Ron and Angela’s experiences out west and see what they collected.

South Carolina State Museum
<http://scmuseum.org/events/upcoming-events/>

301 Gervais Street
Columbia, SC 29201
803-898-4921

Advance online ticket purchases are encouraged, especially if you wish to see planetarium and/or 4D shows.

Hours of Operation:

Mon: CLOSED.
Tue – Sat: 10 a.m. to 5 p.m.
Sunday: 12 to 5 p.m.

Planetarium Theater Shows

Live Sky Experience

Travel through the night sky and take a tour of the constellations, planets and other celestial objects that can be seen in the current night sky from right here in Columbia. Learn how the sky changes over the course of the night and journey through space to get a close-up look at Jupiter, Saturn, and Mars. Show Run Time: 30 mins. Sat. and Sun.: 1:00 p.m.

Black Holes

Unimaginably powerful, relentless, and invisible, black holes are some of the most fascinating and extreme objects in the universe. They warp space and time, swallow up stars, and can grow to monstrous sizes. How do they form? Where are they found? What would happen to you if you fell into one? Go on a mind-bending journey that brings you face to face with these strange and enigmatic denizens of the cosmos. 35 mins. Tues. – Fri: 3:30 p.m., Sat: 11:30 a.m.

We Are Stars

Go on an epic journey through time and space to explore our explosive origins and discover how we are connected to the cosmos. Watch the history of the universe unfold, from the big bang to the formation of the very first atoms to the very first stars. See how stars forged the elements that eventually came together to form planets and the complex molecules necessary for the evolution of life on Earth. 25 min. Tues-Fri 11:30 am.

Museum Special Exhibit:

Apollo 16 & Beyond: South Carolina in Space

This new exhibition explores the Apollo 16 lunar mission and the historic moonwalk of SC astronaut Charles Duke. In addition to featuring many Apollo 16 objects, the exhibition will also highlight South Carolina scientists and engineers who have contributed to the field of aerospace research and exploration.

Virtual Exhibit:

Apollo 50: Journey to the Moon

To mark the 50th anniversary of the Apollo 11 Moon Landing the South Carolina State Museum presents a new exhibition charting the history of NASA's Apollo program and South Carolina's role in lunar exploration. Click here to explore: [Apollo 50: Journey to the Moon - A Virtual 360 Exhibit - South Carolina State Museum \(scmuseum.org\)](http://scmuseum.org).

Current Observatory Programs (All Observatory activities are dependent on clear skies.)

Solar Observing

Mon: Closed
Tues. – Fri: 12 to 4 p.m.
Sat: 12 to 5 p.m.
Sun: 1 to 5 p.m.

Night Observing: Currently Closed Until Further Notice

McKissick Museum

https://sc.edu/study/colleges_schools/artsandsciences/mckissick_museum/

Hours

McKissick Museum is free and open to the public Monday through Friday 8:30 am to 5:00 pm, Saturday 11:00 am to 3:00 pm.

Exhibitions:

Natural Curiosity: The University of South Carolina and the Evolution of Scientific Inquiry in the Natural World

Explore your own “natural curiosity” in this exhibit that highlights the treasures of nature, and the evolution of the field of natural history. Visitors can learn from authentic objects or use newly installed touchscreens to dive deeper into McKissick collections and explore the lives of Historic Southern Naturalists.

Hear Me Now: The Black Potters of Old Edgefield, South Carolina will be on view from September 9, 2022–February 5, 2023 at **The Met Fifth Avenue, New York, NY**, Gallery 955, Robert Lehman Wing. This much anticipated exhibition focuses on the work of African American potters in the 19th-century American South, in dialogue with contemporary artistic responses. It features approximately 50 ceramic objects from Old Edgefield District, South Carolina, a center of stoneware production in the decades before the Civil War, including storage jars by enslaved and literate potter and poet David Drake; rare examples of the region’s utilitarian wares; and enigmatic face vessels whose makers were unrecorded. McKissick Museum has loaned a 19th-century face cup and pottery sherd from Edgefield District, SC, to this exhibition.

To read more:

[Hear Me Now: The Black Potters of Old Edgefield, South Carolina - The Metropolitan Museum of Art \(metmuseum.org\)](https://www.metmuseum.org/exhibitions/listings/2022/hear-me-now-the-black-potters-of-old-edgefield-south-carolina)

CGMS Name Tag

The *Trophy and Gift Shop* in Cayce has the template, shown below, for the CGMS name tags. If you would like one, please contact them by phone or via their website, tell them you would like a CGMS name tag and provide the name you want on it. The cost is around \$10.

Trophy and Gift Shop: 911 12th St., Cayce SC; 803-796-7710; trophyandgiftshop.com.

We also have patches for \$10. Contact Angela if you would like one.



CLUB PICNIC

Come join us at the Halloween club picnic which will be held at Sesquicentennial State Park at Picnic Shelter No. 1 (location shown below) on **Sunday October 30th 1:00 to 5:00**. The club will provide charcoal for the grill, some drinks, and ice. Bring your own meat/vegetables to grill and/or your own food. If you want to share any food, package it in individual servings. The activity for the picnic will be a game of stump the experts whereby a panel will be appointed to identify items collected by members. Please bring one or two items that you would like identified (be nice). Ron & Angela will be providing door prizes for the event. Because of COVID-19 we ask that each member who comes to the picnic abide by CDC guidelines for social distancing. We want this event to be safe for everyone. While at the park, there are opportunities for outdoor recreation such as walking trails, hiking, and bird observation, kayaking and fishing if you would like to extend your day and take advantage of the park. For those who need to unload a large amount or have difficulty walking, you can drive to the shelter to unload but cannot park there.

Picnic Shelter No 1 at Sesquicentennial Park



News Worth Digging Up

Department of the Interior, Geological Survey 2022, Final List of Critical Minerals

Source: Federal Register / Vol. 87, No. 37 / Thursday, February 24, 2022 / Notices

The Secretary of the Interior, acting through the Director of the U.S. Geological Survey (USGS), presented the 2022 final list of critical minerals and the methodology used to develop the list in the Federal Register. This is done pursuant to Executive Order 13817—A Federal Strategy to Ensure Secure and Reliable Supplies of Critical Minerals. 83 FR 23295.

The 2022 final list of critical minerals includes the following 50 minerals: Aluminum, antimony, arsenic, barite, beryllium, bismuth, cerium, cesium, chromium, cobalt, dysprosium, erbium, europium, fluorspar, gadolinium, gallium, germanium, graphite, hafnium, holmium, indium, iridium, lanthanum, lithium, lutetium, magnesium, manganese, neodymium, nickel, niobium, palladium, platinum, praseodymium, rhodium, rubidium, ruthenium, samarium, scandium, tantalum, tellurium, terbium, thulium, tin, titanium, tungsten, vanadium, ytterbium, yttrium, zinc, and zirconium.

The methodology used to develop the 2022 final list of critical minerals is based on the definition of “critical mineral” and the criteria specified in The Energy Act. The methodology includes three evaluations: (1) A quantitative evaluation of supply risk wherever sufficient data were available, (2) a semi-quantitative evaluation of whether the supply chain had a single point of failure, and (3) a qualitative evaluation when other evaluations were not possible. The quantitative evaluation uses (A) a net import reliance indicator of the dependence of the U.S. manufacturing sector on foreign supplies, (B) an enhanced production concentration indicator which focuses on production concentration outside of the United States, and (C) weights for each producing country’s production contribution by its ability or willingness to continue to supply the United States.

To read the full notice: [2022-04027.pdf \(govinfo.gov\)](https://www.govinfo.gov/justice/dois/guides/2022-04027.pdf)

Did You Know?

What is petrology? Petrology is the branch of geology that deals with the origin, composition, structure, and alteration of rocks.

Queen Elizabeth’s Seven Timeless Gems

Source: Rock and Gem Magazine

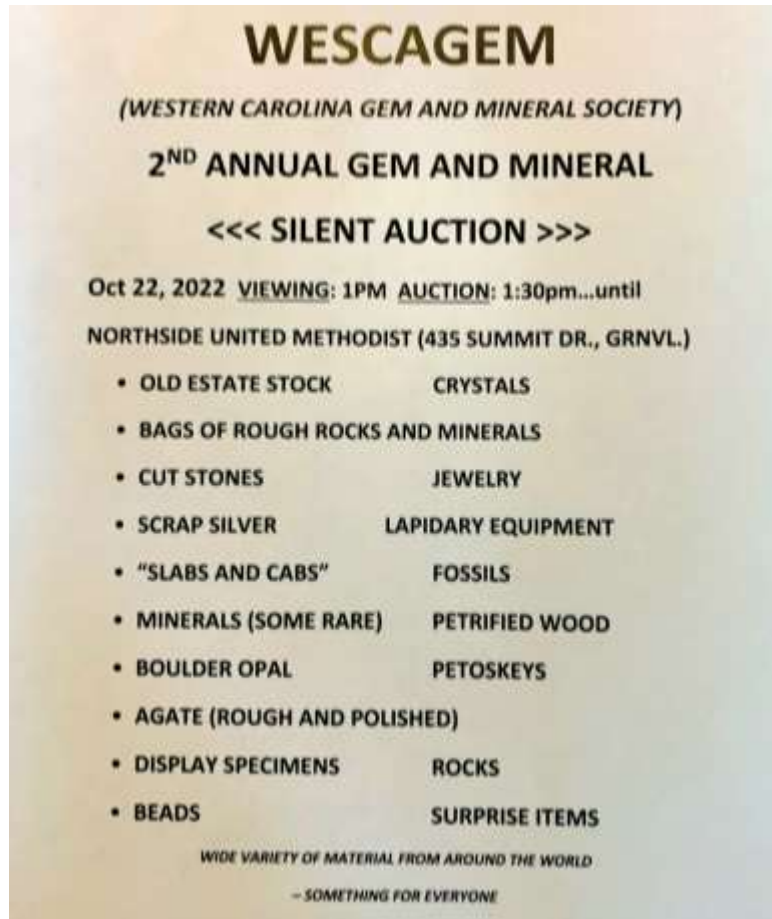
Date: September 15, 2022

Queen Elizabeth II's seven most memorable gemstones span her seven decades as monarch. Whether large, colorful, expected or sentimental, they are exceptional.

Link to Story: [Queen Elizabeth’s Seven Timeless Gems | Rock & Gem Magazine \(rockngem.com\)](https://rockngem.com/queen-elizabeths-seven-timeless-gems/)

Auction

The Western Carolina Greenville Club is having an auction of items donated by club members on Saturday Oct. 22. All the items for auction came from folks that had an affection of lapidary arts, gems, minerals, jewelry, and the equipment/tools needed.



Mineral Display

There is a very nice gem and mineral display at a Savannah, GA, Marriott hotel. It is in the JW Marriott Savannah Plant Riverside District at 400 West River Street Savannah, Georgia, 31401. A couple of members saw it and were impressed. The following link to a YouTube video gives an idea of what there is to see:

<https://www.youtube.com/watch?v=tY8z-AUqZfU>

AREA SHOWS

To verify the accuracy of a show date, go to the show's website or contact them directly.

October 21-23 - Franklin, North Carolina. Show and sale. Franklin NC Gem & Mineral Society.
Robert C Carpenter Community Building, 1288 Georgia Road; Linda Harbuck, (828) 524-3161; Email: linda@franklin-chamber.com; Website: www.visitfranklinnc.com

October 21 to 23, 2022 - Athens, GA. Fall Athens Rock, Gem, Mineral, & Jewelry Show

440 Foundry Street Pavilion The Classic Center Athens, GA 30601.

Grand Hall 8, The Classic Center, 300 N. Thomas Street, Athens, Georgia 30601

This is a permanently covered space, but is open on four sides, making it an “outdoor” space for the purposes of increasing public health and safety.

November 18-19 2022 - COLUMBIA, SC 54th Annual Gem, Mineral, & Jewelry Show

Columbia Gem and Mineral Society

Jamil Temple, 206 Jamil Rd., Columbia, SC 29210

www.cgms.rocks Sue 803-736-9317

December 2, 3 &4 - MAGMA Land of the Sky Christmas Gem Show

Hours: Fri/Sat 9:00-5:00 Sun 10:00-4:00

Venue: Land of the Sky Shrine Club

Address: 39 Spring Cove Rd

Swannanoa, NC 28778

Website: <http://www.americanrockhound.com/>

Meteorites

<https://www.amsmeteors.org/category/meteor-showers/meteor-shower-calendar/>

Orionids

Next period of activity: September 26th, 2022 to November 22nd, 2022

Peak night Oct 20-21, 2022

The Orionids are a medium strength shower that sometimes reaches high strength activity. In a normal year the Orionids produce 10-20 shower members at maximum. In exceptional years, such as 2006-2009, the peak rates were on par with the Perseids (50-75 per hour). Recent displays have produced low to average displays of this shower.

Southern Taurids

Next period of activity: September 28th, 2022 to December 2nd, 2022

Peak night Nov 4-5, 2022

The Southern Taurids are a long-lasting shower that several peaks during its activity period. The shower is active for more than two months but rarely produces more than five shower members per hour, even at maximum activity. The Taurids (both branches) are rich in fireballs and are often responsible for increased number of fireball reports from September through November.

Northern Taurids

Next period of activity: October 13th, 2022 to December 2nd, 2022

Peak night Nov 4-5, 2022

This shower is much like the Southern Taurids, just active a bit later in the year. When the two showers are active simultaneously in late October and early November, there is sometimes a notable increase in the fireball activity. There seems to be a seven year periodicity with these fireballs. 2008 and 2015 both produced remarkable fireball activity. 2022 may be the next opportunity.

Social Media Helps our Club Stay Social!

To access our web site, type "CGMS.ROCKS" in your internet browser or you can search for Columbia Gem and Mineral Society in Google.

The Club's website is: www.cgms.rocks

To join the discussion with other CGMS members on [Facebook](#), look under the Community tab, where you will find the Columbia Gem and Mineral Society Member Group. When you ask to join the Group, please be sure to agree to follow the rules: Be Kind, No Hate Speech or Bullying; and No Promotions or Spam. Please feel free to add photos of your interesting finds, share your Jewelry making, or your field trip experiences.

[Instagram page for the Show: @cgms_show](#)

Columbia Gem & Mineral Society

2022

Please Copy

54th Annual

Gem Mineral & Jewelry Show

Nov. 18, 10 to 6

Nov. 19, 10 to 6

Nov. 20, 12 to 5

Jamil Temple
206 Jamil Rd.
Columbia, SC 29210



Adults \$5.... Children 16 & Under Free
All Military & Dependents Free



803-736-9317
www.cgms.rocks

\$1.00
Off

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\$1.00
Off

The Columbia Gem and Mineral Society is an organization of persons associated together to promote popular interest in and to provide means for the exchange of knowledge of the Earth Sciences – Geology, Mineralogy, and Paleontology – and of the related Arts – Lapidary and other. The Society is a member of the Southeast Federation Mineralogical Societies Inc. and affiliates of the American Federation of Mineralogical Society Inc.

2022 OFFICERS and COMMITTEE CHAIRPERSONS

EXECUTIVE COMMITTEE

President.....Open
 Vice President.....Tom Daniels.....
 Treasurer.....Angela Valvasori.....
 Secretary.....Ron Ahle

COMMITTEE

MembershipSheila Frame.....
 Auctioneer.....Benira Sutphin.....
 Club Liaison.....Jim Cobb.....
 Faceting Guild.....Open
 Facebook.....Dan Elswick.....
 Field Trip.....open.....
 Historian.....Gordon Murphy.....
 Librarian.....Sheila Frame.....
 Newsletter Editor.....Ron Ahle.....
 Program.....Sue Shrader.....
 Rookie RockhoundOpen
 Show.....Dee Iurcovich
 SunshineAbbie Gates.....
 Website.....Steve Coker.....
 Workshop.....Gary Hert.....



CGMS Website

Please visit our Website:

<http://www.cgms.rocks>

Webmaster: Steve Coker

Monthly Meeting

Except for January, the meetings are held the third Monday of each month. Socializing and refreshments at 7:00 pm; Meeting at 7:30 pm.

Executive Board Meetings:

Except for January, the meetings are held on the fourth Monday of each month. Meal is at 6:00 pm. Meeting is at 7:00 pm.

Rocky Trails
PO Box 6333
Columbia, SC 29260