

Southern Maryland Rock and Mineral Club



ROCK TALK



OCTOBER 2022

25 OCTOBER 2022 at 1900 (7 PM)
Meeting at OLD WALDORF SCHOOL
(next to the Waldorf JayCees Hall)
North of the RT 301 / RT 5 Intersection

October Program

THE FOSSIL RECORD - Need to get educated as to each period of time had what fossils and when one grouped "Morphed" into the next? Or what period is evident in Maryland found fossils? Tonight can answer these questions and many more! Be ready to quiz the pros and be astounded by what can be learned!!

Southern Maryland Rock, Mineral and Fossil Show - 05 November 2022

From tonight's meeting, it is only 11 days until the show begins. We as a club, need to give our support to this event in many ways. Advertising in any form - talking to friends, posting show information on social media and in small businesses (with thier permission of course). Simple Volunteering to assist in the smooth operations on show day can help others attending and those vendors who believe we can make this event a success.

Please go the extra mile for this event. Make this event the "Talk of the Mineral Clubs" wishing they could do as well as we did.

Openings for vendors are still available. Dave will have the final details and more at the meeting.

FACEBOOK Page Is Growing!!

Kurt is maintaing our ever growing Facebook Page and is looking for pictures of the club members collections and description of where those items were collected. This social media effort is helping share what this club is doing and can help it expand even further.

If you are not "Facebook Friendly" or "Computer Savy", Kurt is happy to assist you in navigating these "internet waters" safely to share your stories.

2023 Programs Volunteers are WELCOMED!!

It is that time of year we begin the search for new briefers / topics for discussion at our monthly gatherings. Topics that amuse, amaze us, teach us, make us re-think, and more are needed outside the "standard" events we have scheduled. I emplore the club members - please think/volunteer programs for the club. This includes those ever fantastic snacks and drinks that arebrought in. Carole will be estatic if you can assist in ANY WAY for programs or refreshments!!.

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2022 PROGRAMS/REFRESHMENTS SCHEDULE						
MONTH	PROGRAM	REFRESHMENTS				
OCTOBER 25	The Fossil Record	Bernie and Ellis				
NOVEMBER 22	Gold Mine - Dahlonega, GA	Ralph Boswell				
DECEMBER TBD	Seasonal Party (??)	Pot Luck (??)				

Dates are tentative. Changes are possible due to a multitude of reasons that are always beyond our control.

SEPTEMBER 2022 MINUTES

September 27, 2022

September Minutes are submitted by Teresa. Meeting was called to order at 7:05 PM by Joe.

VISITORS/NEW MEMBERS: 26 Members in attendance; one (1) new member; eight (8) visitors, six (6) of whom joined the club.

MEMBERSHIP: 62 members in club (counting the 8 new paid members!) and 140 Facebook posts/members. Our visitors/new members are: Becky and Marie (daughter) Ammar; Paul and Linda Holden (returning after a few years of absence); Paul and Sandi Middleton; Allison Russell and Kate Shirey. John Santic was also our guest.

WEBPAGE: Is up to date. Check this out. Susan Noah will write up her experiences as a rock and mineral collector.

NEWSLETTER: Rich is open for topics and ideas. Please send articles of interest to Rich. New Members: Please give your email to Rich so you can receive the newsletter.

SECRETARY: August's Minutes were approved. Motion to accept the minutes was made by Kurt and seconded by Rich.

TREASURER: Dave presented the monthly report. He has paid for rental of the School for the Rock Show in November and rental for the classroom for 2022-23. We are in good shape.

PROGRAMS: Are set for the rest of 2022. Next meeting, the topic is "The Fossil Record" presented by Ralph. Refreshments: Bernie and Ellis Borgnis. Greta Gormly provided tonight's delicious fall baked refreshments.

FIELD TRIPS: Dave reported on the trip on August 29, a Monday to Point of Rocks and Lamberton Creek, MD. Trip was held on a weekday when less crowded. Trip Leader: Joe. Three (3) attendees who found jasper, metabasalt, Potomac Marble, and garnets in schist.

September 24, Kyanite Corporation Mine at Willis Mtn near Dillwyn, VA from 8:30 am to 1:00 pm. Annual Field Trip Hosted by the Lynchburg club had 6 members attending. Participants collected kyanite xls (blue, white, red, massive, gray), rutile xls, red quartz, fuschite (green mica) massive pyrite, pyrite with kyanite/quartz, iridescent hematite, fluorescent apatite xls, trolleite (a pale green mineral in white quartz.)

November 19, 2022. Special sale of Minerals and Memorabilia at Morefield Mine, Amelia, VA. Owner says: "May be last day ever open to public." No sign up is required.

OLD BUSINESS: Rock Show Update: Joe had questions about the need for (3 people) to serve as security and wear shirts indicating so. After discussion, Dave dropped the requirement for the security detail and encouraged everyone to keep a watchful eye at the show.

Set Up: Dave still needs 4 people to help set up tables on Friday night. Kurt and Joe volunteered – 2 more are still needed.

Take Down: The table will be picked up by 6 PM

On the day of event, doors open at 6 AM. So far we have 14 paid and 21 vendors.

Vendors are asked to park in the back of the building. Entering by the stage entrance is better; vendors can also use kitchen entrance.

Admission: Ralph and Teresa will be accepting admissions. Lorna also volunteered to help.

Teresa volunteered to provide coffee for the vendors and workers in the early AM.

Nametags for Vendors and workers was suggested. Greta will print up vendor tags.

Parking for patrons: There are 88 spaces and overflow can use the Jaycee's parking lot (unless they have an event).

Polly will handle the door prize event.

Club members are asked to wear their club shirts to the event.

NEW BUSINESS: Please visit the "official SMRMC" Facebook site.

ADJOURNMENT: a motion was made by Greta and seconded by ---- to adjourn.

ODDS AND ENDS

The Ghost Fleet of Mallows Bay (Maryland Ship Graveyard)

https://www.youtube.com/watch?v=izvU5l CC1Rs

A stomach-churning discovery! Fossilised VOMIT found in Utah reveals a banquet of prehistoric amphibians that a predator regurgitated 150 million years ago

https://www.dailymail.co.uk/sciencetech/a rticle-11214833/Fossilised-VOMIT-Utahreveals-banquet-prehistoricamphibians.html

Man finds 35,000th diamond at Arkansas park, his 50th this year

https://www.foxnews.com/lifestyle/man-finds-35000th-diamond-arkansas-park-his-50th-this-year

Extinct lizard-like reptile that lived among the dinosaurs 150 million years ago is unearthed in the Wyoming 'badlands'

https://www.dailymail.co.uk/sciencetech/a rticle-11215185/Extinct-lizard-like-reptilelived-dinosaurs-150-million-years-agounearthed.html

HOW TO FIND ARROWHEADS!: Tips for a beginner!

https://www.youtube.com/watch?v=YfSsTk CDIV4

Motion passed and we were adjourned at 7:50 PM. After the door prize drawing (thanks, Dave) and a brief break, Bob Farrar gave an interested program on Moroccan agates. Greta Gormly provided tonight's delicious fall baked refreshments

Cave diver finds 8,000-year-old human SKELETON that hasn't been seen since the last ice age in remote Mexican jungle 26 feet underwater

https://www.dailymail.co.uk/sciencetech/article-11212717/Human-SKELETON-seen-8-000-years-underwater-Mexican-cave.html

Extra-terrestrial water is found in a UK meteorite for the FIRST time: Experts say Winchcombe space rock that crashed on a Cotswolds driveway last year may help to explain how Earth got its oceans

https://www.dailymail.co.uk/sciencetech/a rticle-11220221/Extra-terrestrial-water-UKmeteorite-time.html

Massive tooth that's likely from extinct megalodon shark - that had a jaw large enough to eat a killer whale - is discovered 10,000 feet beneath the Pacific Ocean in a protected area https://www.dailymail.co.uk/sciencetech/a rticle-11288727/Massive-tooth-extinct-megalodon-shark-discovered-10-000-feet-beneath-Pacific-Ocean.html

Neanderthals and humans coexisted for up to 2,900 years in France and Spain: First study to determine how long and where the two mingled finds they overlapped 40,000 years ago

https://www.dailymail.co.uk/sciencetech/a rticle-11312381/Research-sheds-lightmodern-humans-Neanderthals-existing-France.html

Wisconsin artifact collection

https://www.youtube.com/watch?v=Z3wu7 ILkKZE

South Georgia Man Has Prolific Arrowhead Collection

https://www.youtube.com/watch?v=Y6eyi wDCXYk

Calendar of Events

October 29 2022 - ULTRAVIOLATION Show

Where: First United Methodist Church, 840

Trenton Rd, Fairless Hills, PA When: 9:00 AM to 4:00 PM

What: ULTRAVIOLATION is the ULTIMATE annual show for the fluorescent mineral enthusiast, whether a novice or serious collector. The show features many of the world's premier fluorescent mineral COLLECTORS AND DEALERS who strive each year to bring the biggest, brightest and best fluorescent minerals to satisfy the insatiable cravings of the fluorescent collector. ULTRAVIOLATION highlights fluorescent minerals exclusively and is the next best thing to night collecting. Free admission and a fluorescent mineral specimen for each junior mineralogist 12 years and younger when accompanied by an adult.

Admission: \$2.00 Donation, Children 12 &

Under Free

Dealers: 8' TABLE \$30 – ½ TABLE \$15 ADVANCED REGISTRATION FOR DEALERS IS ADVISED. SEND YOUR CHECK MADE PAYABLE TO:

Lee McIlvaine, 8510 Elliston Dr. Wyndmoor, PA 19038 or Paypal electronic payment to leemcilvaine@yahoo.com; 215-713-8020 or email uvgeologist@yahoo.com

Private Ohio Farm Arrowhead Collection

https://www.youtube.com/watch?v=0vqiSz IDdgw

Tips for finding arrowheads and relics in creeks

https://www.youtube.com/watch?v=oeBh7 jgBOBU

November 5, 2022—WALDORF,

MARYLAND: Show and Sale; Southern Maryland Rock and Mineral Club; Old Waldorf School, 3074 Crain Highway; Sat. 9-4; Adults \$5, Seniors (65+) \$4, Juniors (7 to 17) \$3, Under 7 Free; Rocks, Crystals, Fossils, Lapidary, Handcrafted Jewelry, Minerals, Holiday Gifts. Fluorescent Tent. Door Prizes. Free parking; contact Dave Lines, (240) 427-7062; Website: www.SMRMC.org

November 5-6, 2022 – Oaks, PA - Tuscarora Lapidary Society Gemarama 2022. The greater Philadelphia EXPO Center – Hall D, 100 Station Avenue, Oaks, PA 19456. Saturday 10:00 am to 6:00 pm, Sunday 10:00 am to 5:00 pm. For additional

information visit: https://www.lapidary.org/

November 19 & 20 (Saturday & Sunday),

Dewberry Hall, Johnson Center, George Mason University, Northern Virginia Mineral Show. This is a local show for us, sponsored by the Northern Virginia Mineral Club and the geology department of George Mason University. We expect 20 dealers with the usual stuff for sale (good stuff all). Personally, I work in the kids room: mini-mines to dig in, quizzes with prizes (I just created a new, trick-question, quiz), a fluorescent mineral display, and more. It's a fine show for people looking to add to their

collection, and the kids and I have a good time in the kids room. If you live near us, we'd love to have you come. If you would like to help with the show or with set up (Friday night), see https://www.signupgenius.com/go/60b Oc4ba5ad2da6f58-nvmc

Print out the attached card for \$1 off the adult admission



Presented by The Northern Virginia Mineral Club, Inc. www.novamineralclub.org
Sponsored by the Dept. of Atmospheric, Oceanic and Earth Sciences at GMU

Date November 19 & 20, 2022

Dewberry Hall, Johnson Center George Mason University Campus

GPS: https://bit.ly/3fBZfh8 Saturday 10am-6pm, Sunday 10am-4pm

Adults: \$6, Seniors: \$4, Teens (13:17): \$3
Children 12 & under & Scouts in uniform are FREE
GMU Students & Faculty w/valid ID are FREE.

Demonstrations, Exhibits, Kids Activities, and Door Prizes.

Mini-mines for children to dig in and get free fossils and minerals.

Approximately 20 Dealers with Gems, Minerals and Fossils for sale.

Use parking Lot A, enter Lot A where adjacent to the Ichnson Center Look for our Courtesy Shuttle & Designated Walking Path to Mineral Show



FRIENDS OF MINERALOGY - Pennsylvania Chapter SYMPOSIUM November 12, 2022 Lancaster, PA FIELD TRIP November 13

Place

Hours

Symposium for mineral collecting enthusiasts on Saturday Nov. 12, 2022
Hybrid Symposium - ONLINE or IN PERSON at
Bright Side Opportunities Center, 515 Hershey Ave., Lancaster, PA 17603

Bright Side Opportunities Center, 515 Hershey Ave., Lancaster, PA 17603
Talks by knowledgeable speakers on Pennsylvania Mineralogy and Geology
Sales by Select Dealers - Silent Auction — Give-away Table — Conversation
Registration: watch for registration form on our web site

For newsletters and field trips during the year, please join our chapter! See "Join FM"

\$1 OFF

with this card

(applies to all adults

+ seniors in your gloup)

See "Join FM" on the web site

Professional Geologists: Five Professional Development Hour credits available for full lecture attendance

Field Trip Location to be announced. Sunday Nov. 13 Open only to symposium registrants.

Watch for details, registration form, changes and updates on our web site:

www.rasloto.com/FM



Willis Mountain Kyanite Mine

Dillwyn, VA by Sue Knower

September 24, 2022

When Kurt and I signed up for this field trip I admit I was a little nervous. This is the world's largest kyanite mine and there would be up to 150 rockhounds there. I am just a newbie at this, having only gone on one previous field trip. I am so glad that I got over my nerves and went!

Saturday morning dawned partly cloudy and just a nip in the air when Kurt and I left our hotel in Farmville, Virginia for the 20 minute drive to the mine office. When we got there about 7:45am there were already a couple dozen rockhounds there from clubs from several states, all chatting about that day's adventure, signing the requisite safety/liability forms, and what other trips they'd been on. The question of the morning was, where is the bathroom? Once located, a line quickly formed! By 8:30 about a hundred of us assembled in our safety gear to hear the briefing by Mike, the mine manager. He mentioned several times, remember, gravity works here!

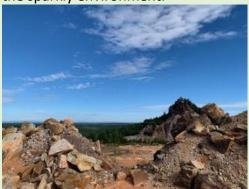


We headed to our vehicles to caravan to the top of the mountain at a slow but steady pace. At one fork in the bumpy dirt road, Mike was standing to make sure everyone took the road to the left to the main collection site. It was rather steep at that point and there were holes and rocks, but the two cars ahead of us made it up on the right side so I followed in my little SUV. Bump! Bang! Stop! Stuck! Mike motioned for me to back up, which I did, and then inched my way up on the left side of the road. Whew!

When we got to the top, the view was spectacular! There were berms of rocks to make sure no one went over the edge, but you could see over them for miles and miles A short distance from where we stood was another peak of rock at about our same height. I later learned from Dave that Willis Mountain is what's known geologically as a "monadnock". The kyanite exposure resisted weathering and, as the surrounding area was eroded and weathered away, the mountain outcrop was left standing. Hearing that made the peak we were looking at even more spectacular.



We parked our vehicles and unloaded our gear and started looking around. Despite the large number of people, there was plenty of space to spread out and get working. Some used hammer and chisel, some used small shovels, but I mainly used my eyes and gloved hands. So many colors, layers of colors, and sparkles! So much mica that the ground we walked on even sparkled, especially once the cloud cover burned off and the sun was shining brightly in the bright blue sky. I picked up one rock and turned it over and realized it had pyrite crystals in it, which also added to the sparkly environment.





Rich pulled his truck closer to where Dave and he had been working a huge boulder and brought out a sledge hammer so large I don't think I would even be able to lift it high enough to swing. They worked

the side of the boulder until a big chunk broke off and fell to the ground, right where Dave's steel toed boots had recently stood (remember that gravity thing?)! Dave and Rich continued to work that boulder for a couple hours and were rewarded with beautiful chunks of turgite, one of which he gave to Kurt and me. Kurt found a few pieces later not far from that area. It really looks like someone has painted the rock with multi colors!

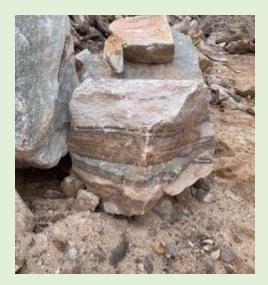




One participant found a loaf of bread sized rock with one surface covered in a smooth blue mineral material so that it looked like a blue lagoon in the Caribbean. Several folks gathered around it, including Mike and another gentleman from the mine, trying to determine what the blue stuff was. I don't know if they ever figured it out, but it was beautiful!



I pulled our vehicle closer to where we were collecting so it was easier to load up our treasures, and while Kurt collected more, I took more pictures of rocks I liked but were too big to bring home, the people, and the view. Alton offered to take my picture with the nearby peak in the background, and then I took his picture at the same spot.





About 30 minutes before the end of our stay on Mt Willis, Dave suggested we go up another road to a slightly higher spot where blue kyanite crystals might be found so Rich, Dave, Bernie, Kurt and I piled into our vehicles and headed there. It turned out to be the right fork of the road at the spot where I had gotten stuck earlier. We headed up that path a couple hundred yards, parked, and walked up a steep clearing in the trees where it was obvious recent rains had been washing material down from the highest part of the mountain. It was almost like kyanite sand, with so many tiny crystals of kyanite in each handful. While we walked, Rich explained that kyanite is a particularly useful mineral because of its heat resistance qualities, and has been used in many industrial applications such as the ceramic tips of spark plugs and space shuttle heat tiles. I walked up the ravine to near the top and found a palm-sized chunk of matrix with multiple spikes of blue kyanite in it. That one was my favorite piece of the day!



A few minutes later when we got back to the vehicles the Mike the mine manager reminded us it was almost 1pm, time to head back down to the mine office. We carefully caravanned back down the mountain road, past the heavy machinery and hills of gravel, to the parking lot. Some folks headed home but many of us assembled under the picnic pavilion to eat the lunches we'd brought, look at specimens people had found, and just hang out to talk rocks. While the collecting was pretty good, what I enjoyed the most of the day was the view, meeting people from a dozen or so rock clubs from 6 or 7 states, and getting to know folks from our club better! I highly recommend going on a rock hounding field trip!



There's lithium in thar hills! Great 'white gold' Rush in Nevada sees more than 17,000 mining claims for the precious metal used in electric cars and smartphones... but it's all on tribal land

https://www.dailymail.co.uk/sciencetech/a rticle-11328469/Great-white-gold-rush-hits-Nevada-sees-claims-lithium-tribal-land.html

By STACY LIBERATORE FOR DAILYMAIL.COM PUBLISHED: 13:58 EDT, 18 October 2022 | UPDATED: 16:43 EDT, 18 October 2022

Nevada is rich in lithium and has attracted many investors and companies looking to extract the soft metal used in electric car batteries

Data shows that there have been more than more than 17,000 placer claims on lithium sites in Nevada

Three-quarters of the sites sit on tribal land, including Thacker Pass that is set to be mined being one of them

In 1865, Native Americans were killed at the site by government officials

Locals fear their ancestral homelands will be turned 'into a sacrifice zone for electric car batteries

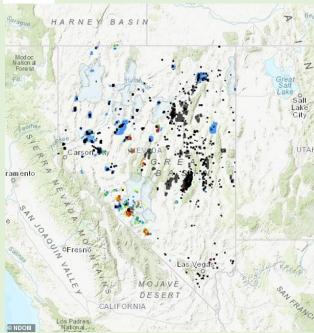
There is a 'white gold' rush happening in Nevada that has seen more than 17,000 placer claims on lithium, but about three-quarters of the sites are on tribal lands and Native Americans fear their ancestral homelands will be turned 'into a sacrifice zone for electric car batteries.'

One site in particular, Thacker Pass, is expected to produce at least 80,000 tons of the soft metal each year.

This land, however, is where dozens of Native American were massacre in 1865 and Shelley Harjo, a Fort McDermitt Paiute Shoshone tribe member, <u>stated</u> the project 'will be the biggest desecration and rape of a known Native American massacre site in our area.'



About three-quarters of Nevada's lithium sits on tribal land, including Thacker Pass (pictured) that is set to be mined being one of them



Nevada that has seen more than 17,000 placer claims (pictured) on lithium. This data is as of September 2022

Government officials, including President <u>Joe Biden</u>, do not seem to be

letting tribal land get in the way of increasing production of lithium in the US, as Biden has previously said he will 'use every tool [he has] to make that happen.'

The US is slowly abandoning gaspowered cars for electrical vehicles in a bid to reduce greenhouse gas emission, but the shift also means it will be more reliant on other countries, like China, to provide the necessary materials.

Extracting lithium on US soil would help the nation on its path to being self-reliant, which is something the country has strived to be, but has yet to obtain.

Lithium mines in Nevada would push America toward the goal, but the mission has been met with criticism by Native American and environmentalist groups, who are specifically concerned about Thackers Pass, **The Guardian** reports.

The Thacker Pass Lithium Mine is a proposed project in Humboldt County that is owned by Lithium Americas and could churn out lithium for nearly the next 50 years.

The project was announced in January 2021 and shortly after, the Reno-Sparks Indian Colony and the Burns Paiute Tribe petitioned the court to stop construction due to the murders that had taken place hundreds of years ago.

The US District Judge Miranda Du ruled in November 2021 that there was no evidence a massacre had taken place and Lithium Americas was free to continue developing the site.

However, the Bureau of Land Management (BLM) reinvestigated the site in 2022 and found remains that proved 31 men, women and children were massacred there by government soldiers.



The Thacker Pass Lithium Mine is a proposed project in Humboldt County that is owned by Lithium Americas and could churn out lithium for nearly the next 50 years



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BLM land managers concluded that while the sites may be eligible for National Register of Historic Places, none of the five sites uncovered during their survey were within the boundaries of the lithium project area, according to the agency. This means Lithium Americas can continue with its plans.

Lithium exploration has drastically increased in Nevada over the last couple of years and it is also home to the only operating mine in the US.

The mine, located in Silver Peak, churns out about 5,000 tons of lithium a year, which is enough to make batteries for 80,000 electric vehicles, The Guardian reports.

And as many states, like California and New York, phase out gas-powered cars for electric vehicles, the US will need to provide a supply for the high demand.



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Karen Narwold, executive vicepresident at Albemarle, told the Guardian: 'Demand for lithium is tremendous; right now, I think it's safe to say that certainly demand exceeds supply.

'I think the infrastructure bill as well as the inflation reduction act are really tremendous opportunities for the US to develop a domestic supply chain for EVs.' However, Harjo does not have the same enthusiasm as Narwold.



As many states, like California and New York, phase out gas-powered cars for electric vehicles, the US will need to provide a supply for the high demand. Pictured is lithium evaporation ponds in Silver Peak

Are we willing to sacrifice sacred sites, health and internal balance for short term economic gains while giant corporations create unmeasurable wealth, deplete resources, and leave our future generations to endure the disorder the Thacker Pass mine would leave behind?,' Harjo wrote.

I will never believe this is the best method for greener living and nor do many other native people in our area.

Digging the Thacker Pass open pit mine on sacred land will only open many doors for additional destruction on Mother Earth.'



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SOUTHERN MARYLAND ROCK, MINERAL, AND FOSSIL SHOW SATURDAY NOVEMBER 5, 2022

9 am to 4 pm

OLD WALDORF SCHOOL (next to JayCees Hall) 3074 CRAIN HIGHWAY (Rt 301), WALDORF MD 20601

ADMISSION DONATION: ADULTS \$5.00, SENIORS (65+)\$4.00, JUNIORS (17-7) \$3.00, UNDER 7 FREE

THE HOLIDAYS ARE COMING**STOP BY,
WE HAVE LOTS OF
UNIQUE GIFTS

FREE PARKING * DOOR PRIZES * OVER 45 TABLES
*ROCKS *CRYSTALS *FOSSILS *HANDCRAFTED JEWELRY
*LAPIDARY *MINERALS *FLUORESCENT TENT *DISPLAYS

SPONSORED BY SOUTHERN MARYLAND ROCK AND MINERAL CLUB WEBSITE: WWW.SMRMC.ORG FOLLOW US ON FACEBOOK: Southern Maryland Rock and Mineral Club

VENDOR APPLICATIONS OR QUESTIONS? CONTACT DAVE LINES THRU WEBSITE: SMRMC.org

MINERALS THAT CAN BE FOUND IN SOUTH CAROLINA

Ε	Т	- 1	R	Υ	Р	Υ	Т	S	Υ	Н	Т	Е	М	Α
С	С	0	Р	Р	Е	R	U	Н	V	R	В	R	L	Q
L	Α	D	U	R	F	L	М	L	0	Ε	С	Е	V	U
Α	N	С	R	R	F	L	K	U	R	R	Α	J	G	Α
Т	1	Т	L	U	М	G	Q	Υ	S	D	1	K	G	М
V	С	Ε	R	В	М	Α	L	U	Α	Р	С	U	Α	Α
М	K	N	V	Α	Α	U	L	Q	Α	N	Υ	С	М	R
U	Ε	R	Α	R	N	F	N	1	Т	R	ı	G	Α	1
1	L	Α	Ε	1	G	E	L	Ε	N	Т	Т	Т	R	N
N	Α	G	R	Т	Α	0	U	0	D	Е	R	Z	Е	Е
0	G	0	Α	Е	N	Т	L	Q	U	В	F	Е	L	L
С	N	С	С	R	Е	Т	Ε	D	Α	R	Υ	W	Н	S
R	V	N	Α	R	S	Е	N	-1	С	Α	ı	L	R	С
1	1	С	F	Н	Е	М	Α	Т	1	Т	Ε	Т	0	- 1
Z	F	В	1	S	М	U	Т	Н	F	В	М	W	Ε	М

These are just a few of the minerals / material that can be found in South Carolina.

GOLD AMETHYST AQUAMARINE GYPSUM ARSENIC HEMATITE **BARITE IRON BERYL** KYANITE **BISMUTH** LEAD **CHERT** MAGANESE **MOLYBDENUM COPPER FLOURITE** NICKEL **GARNET PYRITE**

QUARTZ SULFUR TALC THORIUM TIN TOURMALINE

ZINC

ZIRCONIUM



The Southern Maryland Rock and Mineral Club

Meetings take place on the 4th Tuesday of each month at 7:00pm

Held at the OLD WALDORF SCHOOL

Next to the Waldorf JayCees Hall

3074 Crain Highway, Waldorf, MD 20601

North of the RT 301 / RT 5 intersection

We're on the web: SMRMC.ORG

SMRMC OFFICERS PRESIDENT

Joe Davis

Program Vice President Membership Vice President

Carole Raucheison Kurt Knower

SecretaryWebmasterTeresa JonesBob Davidson

Field Trip Chairman Treasurer
David Lines David Lines

Rock Talk Editor FACEBOOK Coordinator

Rich Simcsak Kurt Knower

ITEMS WANTED/FOR SALE

For Sale – Virginia Unakite slabs (approx ¼ inch thick) – \$0.50 per square inch (this is half off regular price). Call Dave (240) 427-7062

