

Rock

Talk



May 2020



Rock Talk



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The Cover Photo

Watermelon Tourmaline

President's Message

Judith Birx



I hope everyone is in good health, and imagine that you must be as anxious as I am to get back to normal. However, we have been told that we have at least another month or more before some activities can start to resume. I am abiding to the required "stay at home" order. It isn't easy, and I imagine that by now most of you are in similar situations. After the first couple days, I realized that I had too much time on my hands, and then I found that I needed to fill a need for my family. I now have three of my six grandchildren at least three days a week. That still left me with extra time four days a week. Then I went into the cleaning-like-crazy mode. That came after I was told two of my children and my daughter-in-law are on the front lines. Yes, I know, the whole house is clean; the children are being well taken care of, but hold on, it's time for homeschooling. What's next? I wish I could type emojis!

For those who aren't going crazy like me, I have a great idea. The *Rock Talk* can fill that void. Take some photos about what you have been working on. Write an article telling us what your rocks and fossils are doing. Let's

make it as light as possible. If you have items that need identifying, send Mike Stone (micacycle@gmail.com) or Peggy Burns (peggyburns@tampabay.rr.com) a photo and we can ask the entire club for help with the identification. We'd like to hear what you are all doing. Come on jewelry makers, you must have pieces that you've been working on. How about the lapidary work that must be going on in those garages? I know some of our fossil people must have fossils to clean or have something in your collection to show off.

Seriously, we need to find some good in this if we can; it's what keeps us going. I hope everyone stays home and stays well. I know my kids hope you stay home too.

Nothing but best wishes



Hernando County, FL

The May Club Meeting has Been Canceled

What Have You Been Doing?

We asked club members to tell us about what they've been doing. The following text and photos were submitted for the May Rock Talk. Thank you.

My First Rock Garden

This rock garden was created in 2018 from rocks that I got from the two collections that I bought, along with many lapidary items. The triangular area is part of my serenity garden in back of my home. There are obsidian, quartz, agates of many varieties, shale, aventurine, lapis, chrysocolla, and moonstone, just to name a few. I've planted tiny succulents in between some of the rocks, with a star cactus in the center.



Roberta's Rock Garden

The cement wall on backside has all the rocks in matrix with quartz druzies and small embedded amethyst, all from when I went to the Jackson Crossroads Amethyst Mine in March of 2019. When the sun hits them, they

Rock Walk

April's labor of love was to finish my rock walkway that I started in September of 2019. I started collecting rocks from my many trips to CT in 2019 (50lb limit per bag...TSA didn't like me lol), Vulcan Mine digs, gifts from friends, donations from my Withlacoochee Rockhounds club, and Million Souls Mine slabs from there debris pile. The rock puzzle pieces came together and I completed my walkway with one rock left.

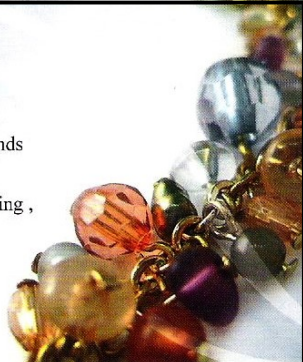
Rock on,
Roberta



Jewels by Jude

Judith Birx
Member of Withlacoochee Rockhounds
Judithbirx@hotmail.com
Natural Stone Jewelry , Wire Wrapping ,
Crystals , Beading

352-587-1702



Peace River Finds

There is nothing better than an unexpected call from your friends asking if ya wanna go digging for sharks' teeth. I rolled on my bike with my gear to Joe and Eileen's, and quickly changed into my river clothes. Off we went to the Alafia River, where we were at a month ago. When we got there, the gate was shut and locked up. As we drove away, I mentioned the Peace River and that I'd never been there but heard it's a great place to go for sharks' teeth. I Googled it and an hour later we found that the Brownsville

Park was closed and locked up. But just past the park entrance is a bridge over the Peace River. Vehicles were parked along the side of the road and we found a parking spot. We hiked down the steep embankment to the river. Then walked up stream to a spot we all liked and started in the river with strainers in hand. Four hours later as the sun was setting, we showed each other our finds of the day and packed up to hike up the embankment to the van. We'll definitely be going back!

Roberta Oldread



Roberta with the Peace River in the background



Roberta's finds from the Peace River



The Peace River

Jewelry and Ears

Wire prong gemstone set cross pendant. The second photo is of Steampunk bunny ears that I made for Easter.

Steampunk is a retrofuturistic subgenre of science fiction or science fantasy that incorporates technology and aesthetic designs inspired by 19th-century industrial steam-powered machinery.

Lauren Bell



Interesting Website for Rock Hounds

<https://naturalhistory.si.edu/visit/virtual-tour>

This link will take you to the Smithsonian Museum of Natural History's Virtual Tour website. You can check out their Permanent Exhibits, Current Exhibits, and Past Exhibits that are no longer on display.

Sent to us by Pat Gould.

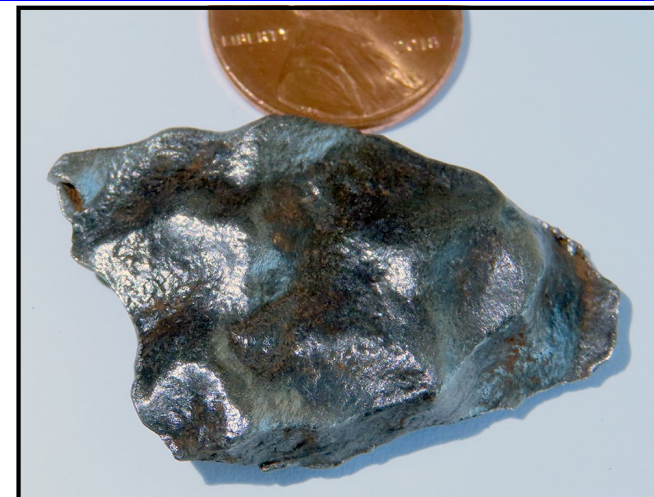
Meteorite or Not?

by Mike Stone

During one of our daily walks in the neighborhood I picked up a small piece of rusty metal on the road. At first glance I could see that it was sculpted with divots, "Regmaglypts", possibly by heat from air friction as it entered the Earth's atmosphere from outer space. So naturally I wanted it to be a meteorite. The heft test indicated that the piece was heavy for its size, meaning the density was higher than most common rocks around here.

When we got home we saw that a magnet easily attached to the piece. So we knew it contains iron. The most conclusive observation was after cleaning the rust off the piece with a buffer, an obvious seam between two attached pieces of metal was exposed, indicating that in all probability the specimen is a chunk of rusty steel that fell off a piece of equipment and not a meteorite. Or could it be a piece of space junk that fell out of orbit?

Here is a website that can help you identify a mystery rock to see if it is a meteorite. <http://meteorite-identification.com/streak.html>



The specimen after cleaning with a wire brush.



A seam between to the two pieces.



The specimen as found in the road.

KELLY JOHNSON

MINERALS*FOSSILS*CABOCHONS
FLINTKNAPPED STONE BLADE KNIVES

buy / sell / trade retail / wholesale

...Yes I buy collections, lapidary equipment, etc...

email: KellyMineralsFossils@aol.com
facebook: Kelly minerals fossils
239-940-9773 SPRING HILL, FL

Evidence of ancient rainforests found in Antarctica

<https://www.cnn.com/2020/04/01/world/antarctica-ancient-rainforest-scn/index.html>

When dinosaurs roamed the Earth 90 million years ago, the planet was much warmer, including Antarctica at the South Pole. But in a surprising twist, researchers have discovered evidence that Antarctica also supported a swampy rainforest at the time, according to a new study.

Researchers captured a slice of the seafloor using a drill rig aboard a polar research vessel on West Antarctica's Amundsen Sea between February and March in 2017. The sediment core sample was taken near the Pine Island and Thwaites glaciers.

CT scans of the sediment core revealed pristine samples of forest soil, pollen, spores, and even root systems so well preserved that they could identify cell structures. The soil included examples of pollen from the first flowering plants found this close to the South Pole.

"During the initial shipboard assessments, the unusual coloration of the sediment layer quickly caught our attention; it clearly differed from the layers above it," said Johann Klages, study author and geologist at the Alfred Wegener Institute. "We had found a layer originally formed on land, not in the ocean."

Scientists know that during the age of the dinosaurs, conditions were warmer. The mid-Cretaceous era, from 80 million to 115 million years ago, was the warmest period for Earth in the past 140 million years. The surface of the sea likely reached 95 degrees Fahrenheit in tropical areas. And the sea level was 558 feet higher than it is now.

But there has been no evidence about what conditions were like at the South Pole. This is the southernmost sample of the Creta-



Artist's conception of Antarctica 90-million years ago.

ceous period collected so far, revealing what Antarctica was like between 83 and 93 million years ago.

"The preservation of this 90-million-year-old forest is exceptional, but even more surprising is the world it reveals," said Tina van de Flierdt, study co-author and professor in the Imperial College London's Department of Earth Science and Engineering. "Even during months of darkness, swampy temperate rainforests were able to grow close to the South Pole, revealing an even warmer climate than we expected."

Sediment cores can record a lot of information about climate, acting like a time capsule for average temperature, rainfall, and vegetation.

"To get a better idea of what the climate was like in this warmest phase of the Cretaceous, we first assessed the climatic conditions under which the plants' modern descendants

live," Klages said.

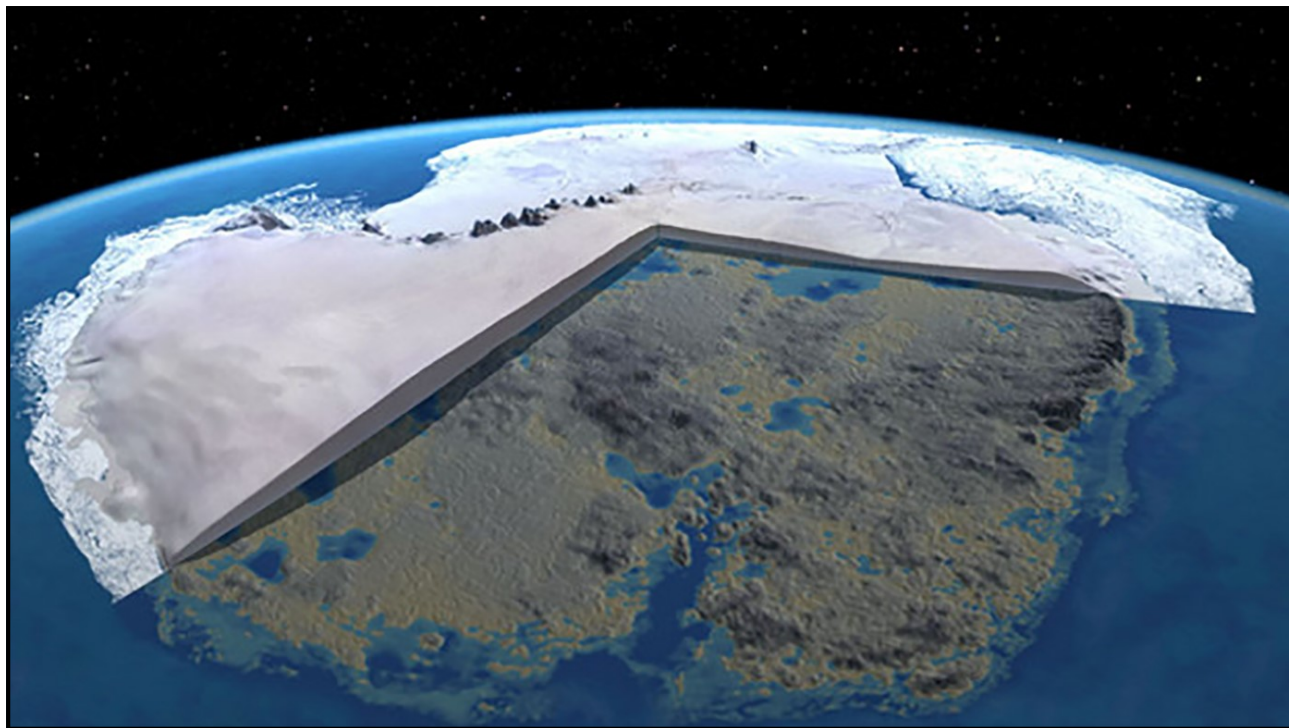
The findings paint an unusual portrait of the South Pole, where West Antarctica's coast was free of the ice caps that cover it now and swampy rainforests covered the area instead.

The average daytime temperature was 53 degrees Fahrenheit. While that sounds mild to us, this is incredibly warm for a location near the South Pole, where current daytime temperatures hover between negative 76 degrees to 14 degrees Fahrenheit. And, as the researchers point out, it's only two degrees warmer than Germany at the moment in March.

The Antarctic ice sheet didn't exist at the time. River and swamp temperatures were likely around 68 degrees Fahrenheit. And the Antarctic summer temperature was likely around 66 degrees Fahrenheit. They estimate rainfall reached about 97 inches per year -- about the same as Wales today.

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Antarctica wasn't always covered by glaciers/

Melting glaciers in the Canadian Arctic have revealed landscapes not seen in 40,000 years

The forests were similar to those now found on New Zealand's South Island, the researchers said.

But how did Antarctica sustain temperate rainforests without year-round sunlight? Even millions of years ago, the South Pole endured what's known as a four-month polar night when no sunlight can be seen.

The researchers investigated the levels of carbon dioxide that would have been in the atmosphere at the time. They found atmospheric carbon dioxide was much higher than expected based on existing climate models. Carbon dioxide has a warming effect on the atmosphere and the planet, creating a green-

house effect by trapping heat from the sun.

The high amount of carbon dioxide, combined with an ice sheet-less Antarctica covered in vegetation created the right conditions for a rainforest environment.

"We now know that there could easily be four straight months without sunlight in the Cretaceous. But because the carbon dioxide concentration was so high, the climate around the South Pole was nevertheless temperate, without ice masses," said Torsten Bickert, study co-author and geoscientist at the University of Bremen's MARUM research center.

But the scientists still don't know what caused Antarctica to cool off enough to form ice sheets, which leads them to their next challenge.



What is It?

Can you identify the specimen below?



Answer in this *Rock Talk*.

Last month's "What is It?"

Chrysocolla In Malachite



Use Our Website

If you don't receive an email with a link to the *Rock Talk*, you can access our website for the newsletter or up-to-date club information. Also, previous *Rock Talk* newsletters can be downloaded from our website. They have been posted from June 2016.

www.withlacoocheerockhounds.com

Mike Stone, editor/webmaster

Rock Art



Rovie Alford

Lapidary Equipment Repairs & Sales
Faceting, Cabbing, Tumblers, Saws and
Silversmithing

Phone 270-999-9144

rovia712@yahoo.com

Lauren M Bell
Artist/Owner

Facebook.com/MadHouseMindWorks
www.MadHouseMindWorks.etsy.com

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With a Southwestern Flair

Bennett Scott

678-642-7953

bscott@scottmetalart.com

For Sale Items

Club members can post appropriate club-related type **for sale** items in the *Rock Talk* free of charge. Contact your editors by the 25th of the month to have your items posted in the next issue.

Mike Stone n1ve@amsat.org

New Class Added 2020 SFMS Workshop at William Holland

June 7th - 12th, 2020
www.sfmsworkshops.org

Metal Mania with Cindy Moore

We will explore a number of techniques using a variety of tools including one of my favorites the Rolling Mill and also several specialty tools I designed and created for metalsmithing. Spinner Rings, Air Chased bracelets and earrings, riveting and Wire Weaving are some of the things we will be covering. We will be covering tool and workshop safety. Time permitting, we may add more.

Air Chasing

Using different sizes of copper tubing we can create bracelets, earrings, or pendants. If you wish you can then add some color with the torch or inlay. (see photo)



Tuesday Jewelry Workshop

at the

Weeki Wachee Senior Citizens' Center

Withlacoochee Rockhounds is giving workshops on wire wrapping (stones), chain making (jump rings) and possibly other related skills at the Weeki Wachee Senior Citizens' Center in Spring Hill. The workshops are normally on the **first Tuesday of the month from 9:00 AM until 12:00 noon**. The cost per workshop is \$1.00. To participate in the workshops, one must be a member of the *Withlacoochee Rockhounds*, which covers dues to the *Weeki Wachee Citizens Club*

Weeki Wachee Senior Citizens' Center.

3357 Susan Dr.

Spring Hill FL 34606

For more information call Judith at: **352-587-1702**

All Jewelry Classes have been canceled until further notice

Dues are Overdue

The club year runs from January 1st to January 1st, so it's time to sign up for the next club year. Janet, our treasurer, will be accepting membership forms and payments at the club meetings, or you can send the form and your check to:

Withlacoochee Rockhounds

PO Box 5634

Spring Hill, FL, 34611-5634

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bottle wind chimes

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Spring Hill Fl

352 200 6852

barbersbloomers@hotmail.com

Vulcan Mine Field Trips All Field Trips have been Canceled Until Further Notice

The Vulcan mine in Brooksville is open for rock, mineral, and fossil clubs on the second Saturday of each month., Everyone is to be at the gate before 9:00 AM. Please make sure that you park off to the side of the road because of trucks entering and leaving the property. First we will go into the mine for a brief safety meeting. Then we have three hours to dig and collect specimens, or you can stay the full five hours. You can leave the mine either at noon or at 2:00 p.m. No one can leave the property before these times unless it's an emergency as a mine employee must escort us into and out of the mine.

Even during the winter months the temperature in the mine can reach 80 plus degrees with high humidity, so bring water, a hat, and sun-screen (also shade if you think you'll need it, because there is none in the mine). Sturdy shoes are helpful, also a rock hammer, chisel, eye protection, a bucket or another suitable container, and newspaper to wrap delicate specimens.

No bathroom, no water, no shade, please be prepared and dress accordingly.

Children are welcome with proper adult supervision. This is a retired limestone pit. There are sharp rocks, wild animals, insects, and other hazards to be mindful of.

Vulcan Mine Address

16313 Ponce DeLeon Blvd.

Brooksville, FL 34641

Lat./long. 28.656481, -82.457544



It's hard to believe that my twelve-western state field trip was already a year ago. I also never imagined what changes could have occurred to our country over the last month. I hope as your reading this article you are healthy and well. You do not have to tell me what you have been doing; I believe we are all pretty much doing the same things. Fortunately I have been able to prep fossils and work pretty much each day.

Well back to my out West adventures. Scott and I proceeded south from Custer South Dakota and headed to US 20 in western Nebraska. I wanted to stop at Fort Robinson State Park and take photographs of the fossils in the Trail Side Museum. This museum is a division of the Nebraska State Museum in Lincoln. It features fossils that were found locally over the last century. Behind the museum a high cliff ridge that is composed of rocks from the White River Series of



The Trail Side Museum at Fort Robinson State Park Nebraska

Badlands. Remains of rhinos and primitive horse fossils have been found, as well as rare saber tooth cat bones.

The rarest fossils found there are two bull mammoths that are now on display. Geologists working in the area in 1962 exposed their bones, but what is unique is that their tusks are entwined and locked together from mortal combat from a hundred thousand years ago. These amazing complete skeletons were removed from their clay gravesite and placed in storage for decades and were not on public display. Over

twenty years ago a dear friend of Sue and ours, Helen

Cozini, decided to move to Crawford Nebraska to collect fossils in her retirement. She had a fossil lease on a ranch just North of Harrison in the fossil rich Brule Formation. We collected with Helen in 1997 and found many specimens of Oreodon, horse and rare bone eating dog fossils. Helen volunteered at the Trail Side Museum



Bull Mammoth skeleton mounted at the Fort Robinson Trail Side Museum



The Bull Mammoth skull locked in mortal combat both dying from exhaustion and finally dehydration

there for many years. One of Helen's pet peeve was that the two Bull Mammoth skeletons lay in storage in Lincoln. Helen raised the money through local money drives and donations to have them displayed where they belong, in the Trail Side Museum. Through her tenacity and hard work she raised the funds and convinced the Nebraska State Museum to build a special exhibit for the Mammoths. Because of her dedication they are now at Fort Robinson State Park.

When Scott and I entered the museum, the director was working the information desk. Of course she asked us where we lived?

Of course we said near Tampa. Immediately she asked "do you know Helen"? Well I had to laugh and began to tell her "Helen Cozini" stories. Clearly Helen is a living legend in Nebraska. She now lives in Zephyrhills Florida and recently had her 88th birthday.

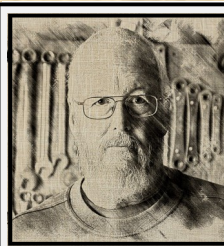
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Dinictus sabertooth cat from the White River Series.

sand plus acre ranches in the area. Of course we stopped and had to take dozens of pictures. The entire ranch family and their hands were driving the herd. We saw the two sons; one about ten and the other was about seven. I had to laugh; both boys were old hands already and looked like they were old pros on horseback. We watched for over 30 minutes as they passed by our car. Mom said to us thank you for your patience in waiting. We said this was the high point of our trip, something I will never forget. America is in good hands with folks like these. Every year when I would collect fossils in Nebraska, ranchers would always ask if I needed help when I parked near a road cut. Great folks.

Well that's all for now, everyone stay safe and healthy until we can meet again.



From the Editor

As I write this, Peg, the cat (Kitty), and I are hunkered down in our Rineyville home, less than a week after the 812 mile trip from Florida. The journey was quick and easy compared to any previous trips due to excellent weather and the lack of traffic. Passing through Atlanta was a piece of cake at sixty miles per hour. In less than two days we moved from a congested neighborhood to the country where our closest neighbors are horses. The change is good, and the peace and quiet is nice.

We order food on-line and pick it up at Sam's Club and Walmart, hopefully avoiding contact with the dreaded COVID-19 virus. Because of all of the work necessary to get the house organized, the grass mowed, and the equipment running, we haven't had much time

to think about what to do next.

Our governor, Andy Beshear, has late afternoon briefings nearly every day, explaining the newest data on the spread of the virus and encouraging Kentucky citizens to continue to social distance and stay at home. And many Kentuckians are paying attention to him.

This month's *Rock Talk* is coming out a little later than normal, but since we have no May meetings, no jewelry class, no field trips or other activities, there was no hurry to get it published any earlier. Thanks to the club members who contributed to this newsletter. Since we don't have specific or official club activities to write about, it good that members are telling us about some of their recent activities, and sending photos.

It is likely that we will be under some type of stay at home order or possibly restricted from gathering in large numbers, so the next club meeting or club activity might be weeks or months away. You will be notified by email as soon as it is safe for us to get together again.

In the mean time, if you would like to continue to receive the *Rock Talk*, please help by contributing something that you think your fellow members would enjoy.

Stay safe and protect yourself and your fellow citizens from the deadly virus.

Mike Stone, editor

Send information to:

Mike Stone; micacycle@gmail.com

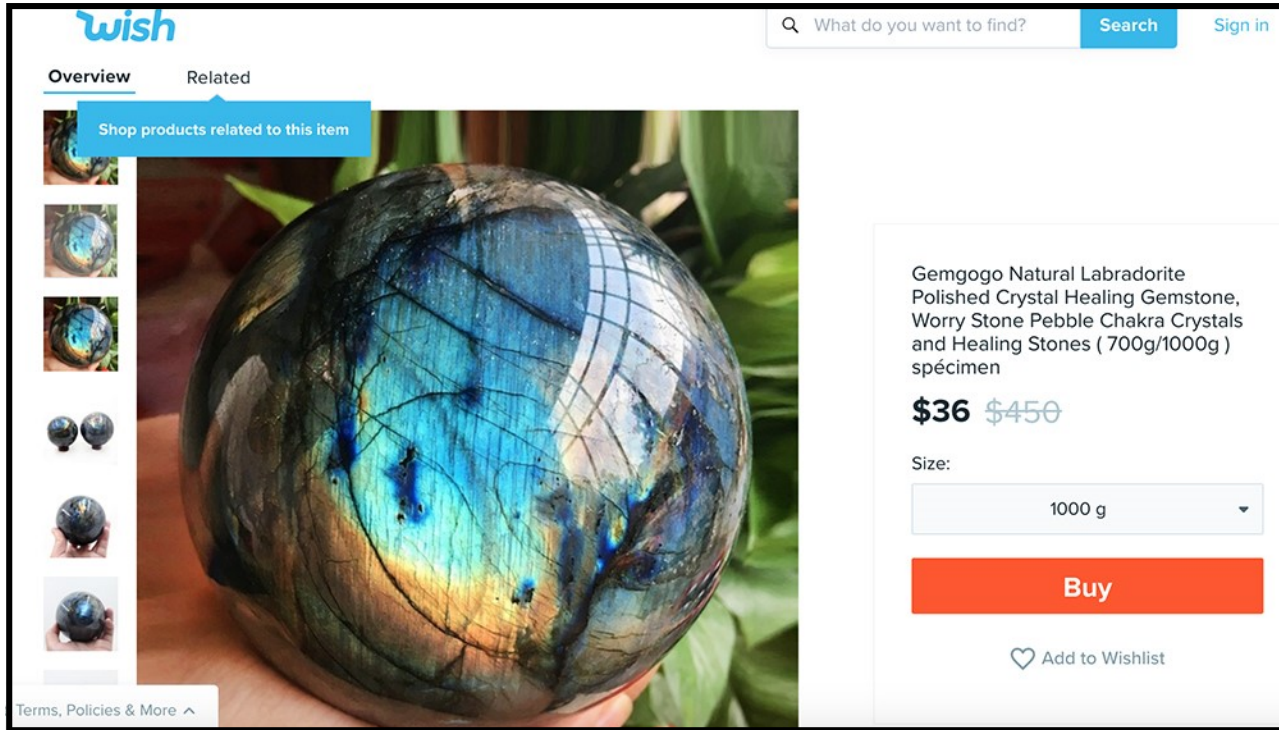
or

Peggy Burns; peggyburns@tampabay.rr.com



Waiting for black angus to cross the road.

Is it Worth it?



by Mike Stone

About a year ago, I ordered a labradorite specimen from China on EBay. Instead of being as described in a photo as a rough, hand-size specimen of a particular weight, I received a bag of bits and pieces, obviously left over from cutting and polishing large specimens. After contacting the seller several times, my payment was eventually returned. Now I am a skeptic when it comes to on-line purchasing of rocks, minerals, or fossils... particularly from China. And I haven't purchased a specimen since.

The above is popup advertisement that keeps showing up on my computer, because of a Google search I did for "labradorite" a while

ago. Looking at the photo, the color and iridescence of the sphere is remarkable, but I wondered how accurate the photo is and if it is representative of a 1000-gram labradorite sphere. Here's how I found the answer.

First I Googled "labradorite" and read the following information on [Wikipedia.com](https://en.wikipedia.org/wiki/Labradorite)

Labradorite ((Ca, Na)(Al, Si)₄O₈), a feldspar mineral, is an intermediate to calcic member of the plagioclase series. It has an anorthite percentage (%An) of between 50 and 70. The specific gravity ranges from 2.68 to 2.72. The streak is white, like most silicates. The refractive index ranges from 1.559 to 1.573 and twinning is common. As with all plagioclase members, the crystal system is triclinic, and three directions of cleavage are present, two of

which are nearly at right angles and are more obvious, being of good to perfect quality. (The third direction is poor.) It occurs as clear, white to gray, blocky to lath shaped grains in common mafic igneous rocks such as basalt and gabbro, as well as in anorthosites.

I chose a specific gravity of **2.69 grams per cubic** centimeter because it falls within the range above. Next, based on the weight of the labradorite sphere (1000 grams), I calculated the volume of the sphere.

$$1000 \text{ g} \div 2.69 \text{ g/cm}^3 = 371.75 \text{ cm}^3$$

Then, using the formula for the volume of a sphere, I rewrote it to find the radius of a sphere when the volume is known.

$$V = \frac{4}{3} \pi R^3 \text{ changed to } R = \sqrt[3]{V \div \frac{4}{3} \div \pi}$$

Substituting the volume for V, I solved the equation.

$$R = \sqrt[3]{371.75 \div \frac{4}{3} \div \pi} = 4.46 \text{ cm}$$

The radius of a 1000-gram sphere is 4.46 centimeters

Then to find the diameter of the sphere.

$$D = R \times 2$$


$$D = 4.46 \times 2 = 9.2 \text{ cm}$$

Then convert the diameter to inches.

$$9.2 \div 2.54 = 3.62 \text{ inches or about } 3 \frac{5}{8} \text{ inches in diameter.}$$

Is the photo representative of a 3 5/8 sphere and is the sphere worth the price?

Withlacoochee Rockhounds



Bench Tips
by
Brad Smith

Bench Tips for Jewelry Making and Broom Casting for Creative Jewelry are available on Amazon

Drilling Small Items

Small pieces need to be held securely while drilling to prevent them from spinning if the drill bit catches. Having sliced my fingers occasionally in my younger days, I avoid Band-Aids now by using flat-jaw pliers or a ring clamp. Pliers also save you if the piece gets hot. Put a little tape or a piece of vinyl tubing over jaws of the pliers if needed to avoid scratches.



Don't hold small workpieces with your fingers.

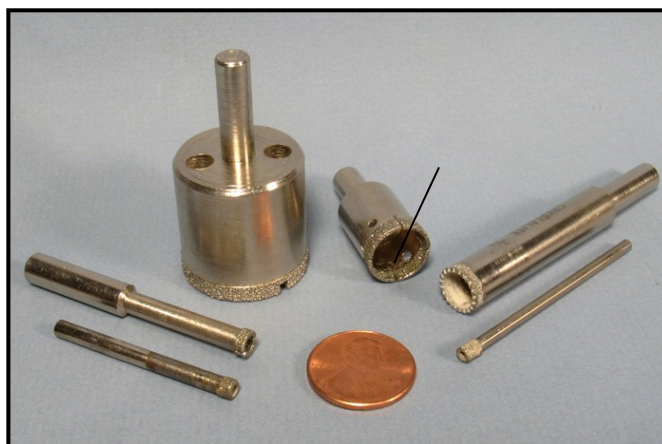
Drilling a Stone

One of the things my students often ask to do is drill a hole through a gemstone. The usual thought is to get a diamond drill, but I've been disappointed with them. I think the reason is that the tip of the drill is just pivoting in the hole and fails to cut well. When it looks like the

drill isn't cutting, the tendency is to push with more force. The drill gets hot, and the diamond grit falls off.

A much better approach is to use a core drill. This is a small hollow tube with a coating of diamond grit at the business end. The diamonds easily carve out a circular arc without undue pressure or heat buildup.

Core drills are readily available from lapidary and jewelry supply companies. They come in sizes as small as 1mm and are very reasonable in price. For instance, a 2mm diameter drill is about \$7.00.



Diamond coated core drills.

Chuck the core drill in a drill press, Dremel or Foredom and be sure to keep the drilling zone wet to cool the tool and to flush out debris. Also, if you're drilling a through hole, go very easy with the pressure, as the drill is about to cut through. Otherwise you will usually chip off some of the stone surface around the underside of the hole.



Learn New Jewelry Skills With Brad's
How-To-Do-It Books

Zoom

In addition, you might be interested in an experiment we did yesterday with my rock club. At the request of local authorities, we had to close down all club activities several weeks ago. But as the date for our April meeting grew near, and with no end in sight to the quarantine situation, we decided to experiment with the idea of a virtual meeting.

So last night the Culver City, CA club held its first ever online meeting. Members were able to communicate via cell phone, laptop, tablet, or desktop computer. After a quorum of members signed on, we had a quick business meeting followed by a slide show of Death Valley historic mining and collecting sites.


We did this via [Zoom.com](https://zoom.com), which allows up to a hundred people to participate in a 40 minute chat, free-of-charge. Simply download the app from Google Store or Apple Store and you're ready to go. Tutorials are available at zoom.com or youtube.com. We found it useful to have one person act as the tech for the meeting and control the sequence of speakers. When we ran out of time, we simply opened a second session and continued with the 140 slides.

See the result on our Facebook page -<https://www.facebook.com/CCRMCP/posts/10158383154896098>

May Club Meeting Canceled

May Rock Talk

MR BEAR
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Your Favorite Specimen

We are always looking for something of interest for our club members. We're sure many club members have specimens in their collections that would be of interest to others in the club. If you would send us a digital photograph of your specimen we can publish it in the *Rock Talk*. A bit of information such as what it is, when, and where you found it would be great. If you don't have a digital camera, bring your specimen to a club meeting for others to see, and perhaps someone at the meeting could photograph it for the next issue of *Rock Talk*.

Rock Talk editors: Mike Stone and Peggy Burns
n1ve@amsat.org

Show Us Your Stuff

We're always looking for information for the *Rock Talk*. Club members would enjoy seeing other members' rock cutting and polishing equipment, display cabinets, projects, and favorite specimens. Take a photo and send it to your editors along with a description and we will be glad to include it in our newsletter.

Mike Stone
n1ve@amsat.org

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bertahdhugger98@yahoo.com

Getting to Know You

Send us a few words about your interest(s) and/or hobby(s), whether or not they are related to rock hounding, we will print them in future issues of *Rock Talk*, and you might find that other club members have similar interests.

Club Members' Business Cards

Club members who have businesses related to any of our club activities can have the images of their business cards posted in each issue of the *Rock Talk*. This is an additional benefit of being a **Withlacoochee Rockhounds** member. You can send electronic images or an actual business card to:

n1ve@amsat.org
or
Mike Stone
4504 Kingston Dr.
Hernando Beach, FL 34607

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Offering: Darryl Johns
polished stones, speci- 5109 Harbinger Rd.
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fossils, shells, rough Text for Appointment
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Facebook: Dr.GotRox Email: dr.gotrox@gmail.com

**Withlacoochee Rockhounds
is now on Facebook**
https://www.facebook.com/withlacoocheerockhounds1/?ref=page_internal


Withlacoochee Rockhounds
PO Box 5634
Spring Hill, FL 34611-5634

Withlacoochee Rockhounds

Membership Form

Annual Dues: Individual member, \$20. 00. Under 18 years of age, no charge.
Check if new member

Please Print Clearly

Last name _____ First Name _____ Check if under 18

Street Address:

City

State

ZIP

Phone Number (s)

Email address:

**Give this completed form along with your check for dues made out to
"Withlacoochee Rockhounds" to club secretary Janet Wheeler at a
club meeting. Or mail the form and your check to:**

**Withlacoochee Rockhounds
PO Box 5634
Spring Hill, FL 34611-5634**

Rock Talk

Withlacoochee Rockhounds

Our monthly club meeting is held at the
Weeki Wachee Senior Citizens Club,
3357 Susan Dr., Spring Hill, FL 34606, on
the 2nd Wednesday of each month
from 7:00 to 9:00 PM



of
Hernando County

www.withlacoocheerockhounds.com

Your Business Card Size Ad in Rock Talk

The cost for non-club members
to advertise their businesses in
Rock Talk is \$10.00 per month. .
Contact Mike Stone to set up an ad
in both the club newsletter and our
website. It will benefit both your
business and our club.

Advertisers Needed

Please help us find advertisers for the
Rock Talk and our website. The club can
use the monthly income. Both the *Rock
Talk* and our website have more exposure
than only club members

Contact club treasure Janet Wheeler: ceecgirl@tampabay.rr.com
or send to:

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Withlacoochee Rockhounds

Purpose

We are a non-profit organization whose purpose is to foster interest and promote knowledge of minerals, gems, fossils, lapidary arts, and earth sciences, through regular meetings, informative programs, workshops, and field trips. PLUS our annual gem and mineral and jewelry show. Membership is open to anyone sharing such interests.

Dues

Dues are \$20.00 annually for adults and no cost for children under 18 years of age.

Club Meeting Location and Time

Weeki Wachee Senior Citizens Center, 3357 Susan Drive in Spring Hill. The meetings are held on the second Wednesday of the month at 7:00 PM.

2020 Club Officers and Appointees

President.....	Judith Birx.....	352-587-1702.....	judithbirx@hotmail.com
Vice President.....	Mark Moore.....	352-586-9607.....	markles@bellsouth.net
Secretary.....	Melodye Steverson.....	352-683-9496.....	melodye@designsbymelodye.com
Treasurer.....	Janet Wheeler.....	727-938-3644.....	ceecgirl@tampabay.rr.com
Rock Talk Editors.....	Mike Stone / Peggy Burns.....	603-524-0468.....	n1ve@amsat.org
Club Web Master.....	Mike Stone.....	603-524-0468.....	n1ve@amsat.org
Mailing Reporter.....	Janet Wheeler.....	727-938-3644.....	ceecgirl@tampabay.rr.com
Gem Bag Coordinator.....	Gloria DuPont.....	352-848-5199.....	ddupont@tampabay.rr.com
Audio/Visual Coordinator.....	Michael Steverson.....	407-376-5570.....	highlander56@gmail.com

Board of Directors

Ralph Barber (past president)
Judith Birx (president)
Mark Moore (vice president)
Roberta Oldread (2020)
Melodye Steverson (secretary)

Ginny Steverson (2021)
Mike Stone (2021)
Lynn Walters (2021)
Janet Wheeler (treasurer)