

Toledo Gem & Rockhound Club



Letter from the President

Hello Fellow Rockhounds,

One more month until our 53rd annual show. This is when the club needs YOU and your support. Invite your family, friends and co-workers to the show, distribute flyers and most importantly volunteer to help. We need help during the show. We need help Thursday with set up. We need help with tear down on Sunday.. You can sign up to volunteer through the website. The day(s) that you volunteer to help you will get into the show free.

The show is the lifeblood of the club. The revenue we make from the show is important to the club. It helps us have this wonderful facility. There are few gem and mineral clubs in this area that have the tools and machines for lapidary work like we have. Your help will truly make a difference for all of us.

We are having an auction after our August general meeting. Some of the items in the auction were donated by Jerri Heer on behalf of Ed Reynolds' estate. These include mineral specimens and fossils. Some of the items were donated by Glen Toepfer on behalf of his father's estate. Walter Toepfer worked at copper mines in Tennessee and the Kewanee Peninsula in Michigan. There are many types of copper specimens. The mined copper specimens are from mines that have been closed for many years. Chet King's family donated more jewelry, findings and beads. We have Early American artifacts, some were found by our members. What a variety! Come to the meeting, stay for the fun and bidding wars.

We are saddened by the loss of our long time member, Chet King, early in July. We have received tributes from members that had worked with Chet and knew him very well. We appreciate learning about him and all that he did for the club.

Hope to see everyone at the August meeting

Diane Bieber
President

August Birthstones

Modern: Peridot

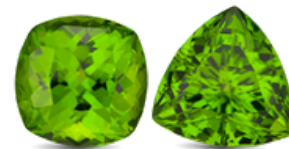
Traditional: Sardonyx

Alternate: Spinel

Ancient Hebrew: Carnelian

If you would like a detailed breakdown, you can check out the following site:

<https://www.gia.edu/birthstones>



53rd Annual Toledo Gem & Rockhound Club Show

What's My Rock?

Rock identification booth

Bring your rock, fossil or mineral to be identified by our experts!

SEPTEMBER 6-8 2024

Bowling Green, OH



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Workshops

Make Your First Pendant Class

Sunday, Aug 4 from 11 am to 3 pm.

Students will learn how to cut metal, make a bezel and back plate, solder, polish and set a stone.



There are two parts to this class; the first three- hour session is scheduled by contacting instructor Michelle Grigore at mgrigoretgrh@gmail.com at least a week before the above date.

Members pay \$45, non-members \$55. All materials provided to complete a small sterling silver pendant with a polished gemstone cabochon.

***The club's show is in September.
We are starting to get ready for it
but a lot still needs to be done...***

Club member Shirley Stieb is calling for volunteers to help make Gemtree's. She will happily teach anyone that is interested in learning. Any visitor to the show, is invited to make their own gem tree. There are no age restrictions! We want you to be there to help these people. Sign up for a two hour shift and get a free T-shirt.



2024
Show
Volunteer
T-shirt

Sign up to
Volunteer at
the show and
get yours!



In July we began preparations and cleaned out the display cases and started packing up! But, we still need volunteers for the show! You will get free admission for the day you volunteer and receive a T-shirt customized by club member Teej Jackson! More Info on page 7.

How I got into gem cutting is quite the story. I was on the road selling colored stones to jewelers around the Midwest and just developed such an interest in it. I'd always been interested in colored stones, but now I thought maybe I'd like to try cutting. So, I gave it a shot but was unsuccessful at first.

I was talking to a customer at a gem and lapidary supply and mentioned my attempts at cutting. He said, 'Well, come on over to my house, and I'll give you a little hand with it.' I went to his house, sat down at his machine, and spent the next 12 hours cutting a synthetic quartz. That customer was Jim Larimore, and it was very kind of him to sit with me for 12 hours, someone he had just met. When I finished, he said, 'You probably should continue doing this.'

It's a morganite from Mozambique. A friend offered me the piece of rough. It was kind of preformed. My son Michael and I were in Tucson, and I looked at it with great desire because it was just a beautiful color. It weighed about 740 carats before cutting and 294 carats after cutting. That was within the range I had hoped for. I aimed for at least 250 and dreamed of hitting a finished weight of 300 carats. Many people commenting online think, 'Oh, you lost that much weight.' But that loss is typical. You're going to lose about 50% on a piece that looks like the finished stone. I probably get a yield of 35% to 40% on an average cut, so this actually worked out very well.

There are no other morganites on the market exactly like this one. I see some bigger morganites out there, but they're windowed. They're just not cut well and don't have the color this stone has. I haven't seen cut morganites in this size range with this gem's quality. I took so much time with this morganite just getting the cut and all the angles right. This gem has perfect symmetry and extreme brilliance.

An Amazing 294-ct Trillion Cut Morganite



Steve Moriarty with the 294-ct trillion morganite gemstone. Photo by Moriarty's Gem Art.





A Tribute *For Chet*

We are very sad to announce the passing of life long member Chester "Chet" King.

Chet was a big influence on our club. He taught students, repaired equipment, went to our events and made many donations. He will be sorely missed. Here are a few memories from some of our club members.



I first met Chet King sometime in 1995 at a Metroparks event at Secor Metropark. Unsurprisingly, he was handing out rocks to kids and promoting the club. As my children were young then, we joined and got to see the full extent of Chet's love for, and involvement in, TG&RC. For many years, he was the gemcrafter moderator, teaching any and all how to make cabs and facet stones. He was at every club show from set up to tear down and putting away. He was generous with information and materials. The club will be poorer for his loss.

Debra Hoffmaster
Former president
Toledo Gem and
Rockhound Club

When Debby and I joined the TG&R Club in the middle 1990s, Chet and his family had already been members of the club for nearly 25 years. Chet and June (his wife) were present and working at virtually all club events and were always willing to provide information and insight into club history. When Chet wasn't giving away items at a club show or garden event, he was acquiring more materials, by purchase or finding them on field trips to local quarries or even more distant sites in the western US and even in Canada. If you were interested in finding a particular type of rock or mineral yourself, Chet (or June) could usually provide you with instructions for locations to visit, often a map as well. When the club workshop needed an equipment item fixed, Chet could be counted on to help with the repair and, across the years, donated many items to the workshop and to our fundraising club auctions. He often acted as one of the auctioneers. He was always generous with his time, talking to club members and non-members alike about his love of rocks and providing advice on how to work with them.

James Leslie
Former president
Toledo Gem and Rockhound Club

I first met Chet King while learning to polish cabochons in the old craft center at TBG. He was there with Jeff and Bonnie as a moderator. Chet taught me how to fix the saws and grinders and he and I would work on them weekly when the craft center was closed. Chet would bring in amazing rocks and give them to members or slab them to use for the first cabochon class. He was always giving us material to work with and taught me their names and temperament. When he learned that Joanna, Sandy and I wanted to polish opal, he brought in material and taught us how to chase the color in Australian Opal. Chet will always be a generous, kind teacher to me. I feel fortunate to have known him.

Michelle

Copper has been used by humans for over 10,000 years. It is both a native element and a mineral. This gives it a place on the periodic table with an atomic number of 29. Copper is also a necessary part of the human diet. Without it, humans could not survive. Understanding its geological properties makes it easy to see why humans have always been so fond of working with and investing in this marvelous precious metal. From copper jewelry to copper pipes, copper electrical wire, and copper touch surfaces and cookware - as one of the most versatile metals, copper has played an integral role throughout history and right up to the modern day. Famed for its excellent conductivity and thermal regulating properties make copper an integral part of industry and construction as its often used in plumbing and electrical wiring, roofing, and industrial machinery. Outside of industry, copper is considered to be one of the precious metals for use in jewelry and is believed to have healing properties, especially when it comes to aches and pains in the body. It is also used for cookware and surfaces as it is naturally antibacterial.

When found in combination with other elements, copper can occur in minerals including copper sulfides (e.g., chalcopyrite and chalcocite), copper oxides (e.g., cuprite), copper carbonates (e.g., azurite and malachite), copper phosphates (turquoise), and additional mixed copper ores. Copper comes in many different forms, but were going to only talk about 3. The three are Float Copper and Mined Copper (Ore), and Native.

Well you say....Whats the difference???

Float

Float copper is native copper that has been moved by glaciers and melt water rivers, while mined copper comes from copper sulfide ores. The term "float" copper locally refers to glacially transported native copper in the western

Upper Peninsula of Michigan. It was used in a 1924 publication in the American Mineralogist by University of Michigan renowned mineralogist Edward H. Kraus. This copper is denser than other rocks and minerals carried by glaciers, and can range in size from ounces to tons. Glaciers strip the copper from its original location and slowly move it along the surface as they grow. When the glaciers melt and retreat, the copper is deposited on the surface, where chemical reactions with surface waters can coat it with new copper minerals. Float copper is smooth on both sides, and discoveries of it in the 1840s helped fuel a copper mining rush.



Native

Native copper is a polycrystal, with the largest single crystal ever described measuring $4.4 \times 3.2 \times 3.2$ cm. Native copper is an uncombined form of copper that occurs as a natural mineral. Copper is one of the few metallic elements to occur in native form, although it most commonly occurs in oxidized states and mixed with other elements. Native copper was an important ore of copper in historic times and was used by pre-historic peoples.

Ore

By far the greatest proportion of copper is extracted from the sulfides of copper, iron and sometimes other metals. The main copper ores are chalcopyrite, bornite, and malachite, and more than half of the world's copper comes from these three ores. Mined copper comes from copper sulfide ores, which are extracted and purified using a series of physical steps and high temperatures. This process includes froth flotation, thickening, smelting, and electrolysis. Major copper mines in the United States are located in Arizona, Michigan, Montana, New Mexico, and Utah.



Rock Shows

The Michiana Gem and Mineral Society will have its show August 16-18 at St. Joseph County Fairgrounds, 5117 S. Ironwood Drive, South Bend, Indiana. The hours will be Friday and Saturday, 10 a.m.-7 p.m., and Sunday, 10 a.m.-5 p.m. For more information, contact Bob Chapa, bobchapa1@gmail.com.

2. For those of you who are MWF executives, committee chairs, and just people with interesting stuff to tell, the deadline for the September issue of MWF News will be August 6th. Let's hear what you've collected this summer!

3. Don't forget the annual convention of the Midwest Federation, being held August 24 and 25 in East Peoria, Illinois. Go as the delegate from your rock club so that your members will have a say in MWF policies, attend the awards banquet, and enjoy the gem and mineral show being put on by our hosts, the Peoria Academy of Science Geology Section! Forms are available at mwfed.org/convention. If you want to act as a delegate for your club, that form is due August 9th (don't forget to have the club president sign your form); if you want to submit a display for the competitive show, that form's also due August 9th; and if you just want to attend the meetings and banquet, that form is due August 16th.

53rd Annual Toledo Gem & Rockhound Club Show

TREASURES UN-EARTHED

SEPTEMBER 6-8 2024

New Friday Hours

Fri. 10am -6pm

Sat. 10am-6pm

Sun. 11am-5pm

Pratt Pavillion
Wood County Fairgrounds
13800 W Poe Rd
Bowling Green, OH

\$1 off w/this coupon

\$6 Entry 3 Day pass \$12
Kids 12 and under FREE
Scouts in uniform FREE

Family Fun & Educational






ROCKYREADER.COM

Our yearly club show is coming up fast! We are calling for any volunteers that can help to please do so and sign up! By volunteering you will have free admission for that day and would be doing the club a great service!

If you are a member of the club and are interested please use the like below or email directly to trgcshowvolunteers@gmail.com.
<https://www.signupgenius.com/go/10C084CADAC2BABF4C52-50136971-2024>

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Calendar

August 2024

- Rocky Reader
- GEM CRAFTERS
- EXTREME READERS
- METAL CRAFTERS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
28 12:00PM Piercing Class Mike	29 1:00PM Metal Crafters 1pm-4pm	30 10:00AM Extreme Beaders 10am-2pm	31	1	2	3 10:00AM Gem Crafters 10-3 Mike
4 11:00AM Make your 1st Pendant 12:00PM Metal Crafters 12-3	5 1:00PM Metal Crafters 1pm-4pm	6 10:00AM Extreme Beaders 10am-2pm	7	8 11:00AM Gem Crafters 11-3 Mike Scheduled: Jul 25, 2024 at	9	10 10:00AM Gem Crafters 10-3 Mike 3:00PM Gem Tree Class with Shirley
11 12:00PM Metal Crafters 12-3 Scheduled: May 5, 2024 at 12:00PM to	12 1:00PM Metal Crafters 1pm-4pm	13 10:00AM Extreme Beaders 10am-2pm	14	15	16	17
18 12:00PM Metal Crafters 12-3	19 1:00PM Metal Crafters 1pm-4pm	20 10:00AM Extreme Beaders 10am-2pm	21 7:00PM Monthly Meeting 7 pm 8:00PM Auction - af- ter meeting	22 11:00AM Gem Crafters 11-3 Mike	23	24 10:00AM Gem Crafters 10-3 Mike
25 12:00PM Metal Crafters 12-3	26 1:00PM Metal Crafters 1pm-4pm	27 10:00AM Extreme Beaders 10am-2pm	28	29	30	31

Calendar

September 2024

- Rocky Reader
- GEM CRAFTERS
- EXTREME READERS
- METAL CRAFTERS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 12:00PM Metal Crafters 12-3	2 1:00PM Metal Crafters 1pm-4pm	3 10:00AM Extreme Readers 10am-2pm	4	5	6 10:00AM Treasures Unearthed Wood County Fair Grounds 13800 W Bowling Green, OH 10-6	7 10:00AM Treasures Unearthed Wood County Fair Grounds 13800 W Poe Rd Bowling Green, OH 10-6
8 11:00AM Treasures Unearthed Wood County Fair Grounds 13800 W Poe Rd Bowling Green, OH 11-5	9	10 10:00AM Extreme Readers 10am-2pm	11	12	13	14
15 12:00PM Metal Crafters 12-3	16 1:00PM Metal Crafters 1pm-4pm	17 10:00AM Extreme Readers 10am-2pm	18 7:00PM Monthly Meeting 7 pm	19	20	21
22	23 1:00PM Metal Crafters 1pm-4pm	24 10:00AM Extreme Readers 10am-2pm	25	26	27	28
29 12:00PM Metal Crafters 12-3	30 1:00PM Metal Crafters 1pm-4pm	1 10:00AM Extreme Readers 10am-2pm	2	3	4	5