

“CUTTING REMARKS”

The Official Publication of the Old Pueblo Lapidary Club
520-323-9154

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Janet Keisler 333-3398

The January General Membership Meeting has been cancelled. There will be a General Membership Meeting June 12th. Please check in often for updates regarding scheduling of meetings, labs, and field trips. Some labs are open again - see inside.



Articles or news to be included in the *Cutting Remarks* should be emailed to your Editor, Mike DeMeritt (silverlininggemstones@gmail.com), or feel free to call him at 520-455-5378 or (520) 240-5133. Submission deadline is the 20th of each month. Thanks!

THE PREZ SEZ by Victoria Fila, President



Hello everyone, hope all are doing great and staying well.

With most getting vaccinated, the board has decided to try to have a general meeting June 12th. We are looking for a speaker; if we cannot secure a speaker, we will have a recorded presentation. Capacity will be limited to 55 and everyone needs to wear a mask. We will send out an email with the presentation. Coffee and soda will be available but we will not have snacks - it will be bring your own snacks. We will be having the raffle and member's door prize.

All labs are running smoothly. We have increased the number of capacity to be inline with city ordinance of 50% capacity. Cab lab is up to 6, silver lab 5, faceting lab 5, and casting may stay low due to the size of the room.

March Silent Auction was a great success with a good selection and turn out. Thank you all who were able to attend. April Tailgate Sale went well and had a good turn out.

We are working to get back to normal. Full normalcy may not come until September. Once we are able to be back to our normal monthly gathering we will celebrate our 50th year anniversary and life celebration for the members we lost this past year.

Since we did not receive any volunteers to represent OPLC in the June 2021 AMF/ RMFMS Big Pinney convention in Wyoming, Jodi Brewster will be our proxy. They announced that they will be reading the names of all members for each club lost in this past year. I will be giving Jodi the list of our members.

Everyone stay safe and we will all be together soon.

Victoria Fila

OPLC President

Front Cover Pictures: *May's Primary Birthstone is **Emerald**, or green-colored **Beryl** like this fine crystal on matrix. **Malachite** can occur as velvety crystals within the interior of a protected vug.*

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Current Lab Sessions as of 10/23/2020

Lab Sessions to be Re-Opened on a Limited Basis (be sure to read the rules before calling)

Cabbing:

Monday, 6 - 9 pm, Monitor: Donovan Wagner, (520) 869-2050

Tuesday, 9 -12 am, Call for dates. Monitor: Dan Lilly, (801) 995-9692

Tuesday, 3:30 – 6 pm, Leave message on phone. Monitor: Margarette Harris (520) 561-2315

Wednesday, 9 - 12 am, Monitor: Mark Davidson, (520) 975-6075

Wednesday: 6 - 9 pm, Monitor: Keith Haubert, (520) 784-8283

Thursday: 6 - 9 pm, Monitor: Tom Tuten, (803) 260-5423

Friday: 9-12 am, Monitor: David Schulte, (520) 954-8554

Saturday: 9:30 am - 2:30 pm, Call for dates. Monitor: Victoria Fila (520) 664-0302

Sunday: 10 am - 2 pm, Monitor: Gloria Shenanaquet, (520) 396-9715

Sunday: 2 - 5 pm, Monitor: Malcolm Currie, (360) 707-1360

Silver:

Tuesday 9 -12 am, Monitor: John Poole, (520) 555-7788

Wednesday 9 am - 1 pm, Monitor: Dennis Murphy, (520) 490-9188

Thursday 6pm - 9pm, Monitor. Bill Cascio

Friday 9 - 12 am, Monitor: Kim Knebel, (520) 873-8990

Saturday 9 am - 2 pm, Monitor: Jamie Germaine, (520) 288-0315

Casting:

Call Chuck Lundstrom at (520) 241-9262

Tuesday 9 -12 am, Monitor: Liz Williams, (818) 300-5262

Faceting:

Monday 9:00 - 12:00 am, Monitor: Dave Richardson, (520) 245-2172

Monday 1:00 - 4:00 pm, Monitor: Dave Richardson, (520) 245-2172

Monday 6:00 - 9:00 pm, Monitor: Rick Franz, (520) 401-6414

Wednesday 6:00 – 9:00 pm, Monitor: Dave Richardson, (520) 245-2172

Saw Room:

Call Mark Gibson (520) 297-4412 or Pete Peterson (520) 886-9021

For cutting times and procedures.

MAY GEMSTONE: EMERALD



6.84 Carat Fine Gem Emerald
From the Author's Collection

May's birthstone is the fabulous variety of Beryl known as **Emerald**. Beryl forms commonly as simple, prismatic, hexagonal crystals, whose prism faces are often vertically striated or grooved. It has indistinct cleavage on the basal {0001} plane, and conchoidal or uneven fracture. Hardness varies from 7.5 - 8.0 on the Moh's Scale, with relatively-fragile emerald usually coming in closer to 7.5. It has a density of roughly 2.7. It has a vitreous luster, is transparent to translucent, and large crystals can vary in transparency. This is especially true with emerald, whose formation happens in such violently magmatic conditions as to virtually assure a variety of inclusions (emeralds are known for their *Jardin*, a French word for "Garden"-the mass of inclusions leaves the impression of a painted garden landscape...)

As I explained for Aquamarine (another form of beryl) in the March issue, the crystal structure of beryl is characterized by sixfold rings of [SiO₄] tetrahedra that lie on top of each other and thus form endless channels along the c-axis of the crystal. The rings are linked by [BeO₄] tetrahedra and [AlO₆] octahedral. In addition to the main elements of beryl, minor amounts of Li, Na, or other alkalioid metals can be present (like H₂O or CO₂, they can be accommodated in the channels.) Color is caused by chromophores in the form of transition elements, and typically, Chromium (as Cr³⁺) is responsible for the deep-green in emerald. Vanadium may also act as a chromophore, either by itself, or in concert with the Chromium. Though Iron may color beryl green, it is not considered an emerald unless the chromophore is Chromium or Vanadium (Iron-green beryls are simply called "Green Beryl" or even labeled as aquamarines...) With aquamarines, the crystals are often long; by contrast, pink beryl (Morganite) typically assumes short, stubby, tabular crystals. Emerald falls in between these ranges, with mostly shorter, smaller crystals that are very rarely tabular.

Most beryl is found in granitic pegmatites, but emerald is an exception - it most frequently occurs in mica-schists, or veins and cavities in bituminous limestone (like the famous emerald mines of Muzo, Columbia.)

Emerald is found in few places, and important deposits include Muzo and Chivor, Columbia; Bahia and Goias, Brazil; Pakistan; Afghanistan; and Hiddenite, North Carolina. There are African deposits as well, though many of these really only produce green beryl (colored by Fe²⁺). Fine, gem-quality emeralds are exceptionally rare, and rank among the most expensive and sought-after of all gemstones. Those with May birthdays couldn't be prouder!



Emerald Rough from Muzo, Columbia

-Written/Compiled by Mike DeMeritt, 2013

MAY CUTTING TIPS

Bulk Facet Rough Removal that helps satisfy yield. Any facet machine can double as a saw. Locate a large steel washer or bushing to use as a spacer. Install a standard girdling lap as a base, then your spacer, followed by a standard diamond sawblade horizontally. Using careful adjustments to the mast, cut your preform to just over-size, saving the larger removed pieces. With some machines, you can increase the number of spacers if necessary to allow larger material removal. With some careful pre-planning, you can cut near-perfect performs, as well as save the bulk of any waste (you can always cut some matching stones from these...) Best of all, your grinding laps will last much longer than before!

Off on a tangent... Ever had a design plan for a given material, but want the design in something different? If you don't work out your facet angles with a tangent ratio formula, there's a good chance you are losing some of the potential brilliance of your stone. If you arbitrarily add to or subtract from given angles (as many do...), the optical properties of the cut can be altered dramatically (and typically not in a good way!) The best way to avoid this is to change the angles *tangentially* in relation to the new material's critical angle, which keeps the integrity of the design's plan view. All you need is a scientific calculator with a Tangent button ("TAN"), an Inverse button (sometimes called "SHIFT" or "INV"), and a method by which to store a number in memory (for my example I'll use the typical "M+" and "MR" functions on most calculators...) *Example: You have a cool design for CZ that you'd like to cut an amethyst out of. The pavilion main angle for CZ is 40.6 degrees; for quartz it is 43.2 degrees. Here's how it works:*

1.) Enter the new (quartz) angle: **43.2**

2.) Press **TAN (0.9391)**

3.) Press **/ (divide)**

4.) Enter the original (CZ) angle: **40.6**

5.) Press **TAN (0.8571)**

6.) Press **= (1.0956)** This number will remain in Memory Recall (after step 7) unless you negate it. It is necessary for further calculations beginning with Step 8.

7.) Press **M+ (1.0956 goes into memory...)**

8.) Enter any known original (CZ) angle pavilion break, i.e. **41.7**

9.) Press **TAN (0.89097)**

10.) Press **x (multiply)**

11.) Press **MR (1.0956)**

12.) Press **= (0.97616)**

13.) Press **INVERT or SHIFT**

14.) Press **TAN (44.3)** This number is your new corresponding pavilion break angle for quartz.

Use this method for any other corresponding angles that need to be figured, including all crown angles. The angles will be precisely correct for the plan form with the new critical angle. Your stones will sparkle in agreement! *Provided by Mike DeMeritt, 2012*



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OPLC Members should check the

Facebook page of the Old Pueblo Lapidary Club Lab Monitors Group

<https://www.facebook.com/groups/335450367346008>

for current lab times and days



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Russell McCulley
Sandra Day Prout
John Babcock
Corinne Babcock
Tony Allen
Elijah Allen
Joe Waktins
Robin Isaacs

Pauline Martz
Aaron Oldham
Tucker Davis
Greg Abate
Abi Denninghoff
Toby Rupel
Alexandra May
Taylor Nakakihara
Sarah Dale

Creativeness often consists of merely turning up what is already there. Did you know that right and left shoes were thought up only a little more than a century ago?

Bernice Fitz-Gibbon

DONATIONS

The following donations were received this month:

NO DONATIONS THIS MONTH

Thank you to all that have made donations to help keep this club running!
We are still receiving donations if you have lapidary related items. Please contact
Dave Richardson at 520-245-2172 to arrange a pickup or drop-off.

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Ad Expires June 2017



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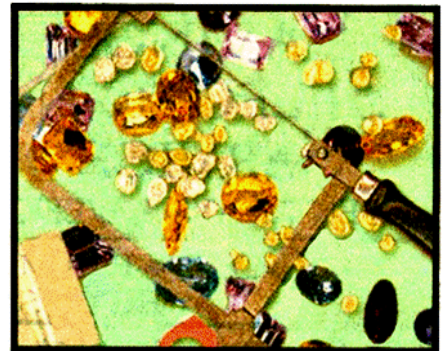
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Ad Expires June 2015

MONEY SAVING DISCOUNTS

- **DAH Rock Shop** - 10% on most items, \$10 minimum purchase. 520-323-0781
3401 Dodge Blvd, Tucson
- **Colorwright** - (928) 862-4120, Web address: <http://www.color-wright.com/>, **MAILING ADDRESS:** . 2160 Shelby Road, Suite 101, Sedona AZ 86336. Amount of discount depends on item(s) being purchased.
- **Jay's of Tucson** - 30% discount excluding orange tag items, sterling silver sheet and wire. 520-323-1123 (**4813 E Speedway in Pinecrest Center**)
4627 E Speedway, Tucson
- **Jed's Rock Shop** - 20% on all items. 520-882-6044 - **6275 N Sandario Rd, Tucson**
- **Copper City Rock Shop** - See ad in this issue. 10% discount with ad. 928-425-7885
566 Ash, Globe, AZ 85501
- **Kent's Tools** - 10% discount. 520-461-1350 - **2745 N 1st Avenue, Tucson**
- **Tucson Mineral & Gem World** - 10% 520-883-0682 Web address: www.tucsonmineral.com
2801 South Kinney Road, Tucson
- **Arizona Lapidary** - Arizona Lapidary & Gem Rough - 10% Discount off rough rock 520-399-6641
7320 E Broadway Blvd, Tucson
- **Silver Lining Gemstones** - 20-35% discount on most items. 520-203-8430, or see Mike DeMeritt at any of his labs. Includes Instagram Store (IG Name **silverlininggemstones**)
- **Starr Gems** - 10% Discount on select merchandise, and 3-ounce price break for all silver purchases. See ad in this issue. **220 W Drachman, Tucson**

DON'T FORGET

Please don't forget to continue to bring in **YOUR** (or anyone else's for that matter) aluminum cans to the Club for recycling. Your contribution would be greatly appreciated to help add \$'s to the Club's treasury. **Thanks!**

Rate Schedule for Advertisements - - - Ad Sizes & Prices

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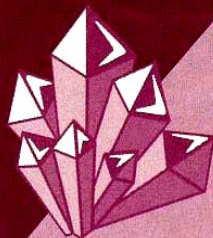
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Victoria Fila 664-0302

FIELD TRIPS (COMMITTEE)

Victoria Fila 664-0302

HISTORIAN

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Kim Filips 743-8070

KITCHEN

General Membership

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Bill Cascio 638-8144

MEMBERSHIP

Janet Keisler 333-3398

SECURITY

John Poole 777-5588

SILENT AUCTION

Dave Richardson 245-2172

BUSINESS MEETING REFRESHMENTS

Twink Monrad 297-9454

Victoria Fila 664-0302

SILENT AUCTION

Dave Richardson 245-2172

NEWSLETTER

Mike DeMeritt (520) 455-5378

NOTE: SEE PAGE 3 FOR COVID-19 LAB SCHEDULING

WEEKLY WORKSHOP SCHEDULE Phone 323-9154

Mondays

9AM - Noon **Faceting Lab & Class**
Monitor - Dave Richardson 245-2172

9AM- 3:30PM **Cabbing**
Monitor - John Watt 520-247-6811

1PM - 4PM **Silversmith Lab**
Monitor - Pat Droll 345-2792

1PM—4PM **Faceting Lab & Class**
Monitor - Dave Richardson 245-2172

3:30PM - 6PM **Cabbing**
Monitor - Margarette Harris 561-2315

6PM - 9PM **Faceting Class**
Monitor - Earl Zoeller 886-3518

6PM - 9PM **Cabbing****
Monitor - Donovan Wagner 869-2050

6PM - 9PM **Silversmithing Lab**
Monitor - Bill Penrose 780-1143

Tuesdays

9AM - Noon **Cabbing***
Monitor - Mike DeMeritt 520-455-5378

9AM- Noon **Casting**
Monitor - Liz Williams (818)300-5262

9AM - Noon **Silversmithing Lab**
Monitor - John Poole 777-5588

Wednesdays

9AM - 1PM **Silversmithing**
Monitor - Dennis Murphy 490-9188

3PM - 6PM **Rock Sawing**
Monitor - Steve Lutes 320-360-4329

6PM - 9PM **Cabbing**
Monitor - Keith Haubert 784-8283

6PM—9PM **Faceting Lab & Class**
Monitor - Bob Powell 403-8980

Thursdays

9AM - Noon **Rock Sawing**
Monitor - Pete Petersen 886-9021

9AM - Noon **Cabbing**
Monitor - Bob Powell 403-8980

1PM - 4PM **Silversmithing**
Monitor - Giac D'Aquisto 207-6219

6PM - 9PM **Silversmithing**

Monitor - Bill Cascio 638-8144

6PM - 9PM **Cabbing**

Monitor - Tom Tuten 803-260-5423

Fridays

9AM - Noon **Cabbing****

Monitor - David Schulte 954-8554

9AM—Noon **Silversmithing**

Monitor - Kim Knebel 873-8990

1PM - 4PM **Silversmithing**

Monitor - Lou Ackerman 290-6968

1PM - 4PM **Cabbing**

Monitor - Pete Valentine, 208-409-7910

Saturdays

9AM - 2PM **Silversmithing**

Monitor - James Germaine, 288-0135

9AM - 2PM **Cabbing**

Monitor - Ron Bryan 619-495-7967

Casting Class

Monitor - Chuck Lundstrom 241-9262

Investing second Saturday of every month 12 - 3

Casting pour third Saturday of every month 3PM until finished.

Sundays

9AM - Noon **Rock Sawing**

Monitor - Mark Gibson 297-4412

10AM - 3PM **Silversmithing Lab**

Monitor - Giac D'Aquisto 207-6219

10AM - 2PM **Cabbing**

Monitor - Gloria Jean Shevanaquet 369-7225

2PM - 5PM **Cabbing**

Monitor - Malcolm Currie

• **INSTRUCTION AS AVAILABLE**

** **FIRST TWO MON/FRI OF EVERY MONTH IS CAB-
OCHON CLASS, WHILE THE OTHERS ARE OPEN
LAB**

Old Pueblo Lapidary Club
 (Cutting Remarks - May 2021)
 3118 N. Dale
 Tucson, AZ 85712
 (520) 323-9154

OPLC Membership Application
Complete form can be downloaded at: lapidaryclub.org/join_us.shtml

Name1 _____ Name 2 _____ Date _____

Local Address _____

City _____ State ____ Zip Code _____ Phone number (____) _____

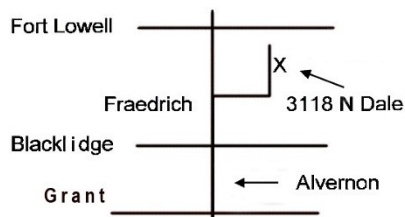
Email address _____ Summer Dates: From _____ To _____

Summer Address _____

City _____ State _____ Zip Code _____

Type of membership:	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>	<u>Annual Renewals</u>
Single Member	\$30.00	\$23.00	\$16.00	\$11.00	\$25.00
Couple (same address)	\$40.00	\$30.00	\$23.00	\$16.00	\$30.00
Junior	\$14.50	\$11.00	\$9.00	\$6.00	\$12.00

Mail to: Membership Chairperson, Old Pueblo Lapidary Club, 3118 N. Dale, Tucson, AZ 85712



The Business Meetings are held on the 2nd Saturday of each month. A pre-meeting social hour (except for the December meeting) is at 8:00 a.m., followed by an educational program, and ends with the monthly meeting. Visitors are most welcome.