

THE MIDWEST FACETER

A PUBLICATION OF THE MIDWEST FACETERS' GUILD

SEPTEMBER/OCTOBER 2014

FROM THE PRESIDENT

The lazy days of summer are upon us. Currently we are in Georgia and experiencing some really hot and humid weather.

The seminar was held this year in Grand Rapids. Barb Yost headed this up again this year — thank you Barb for being the Seminar Chairman. Barb arranged for the hall, headed up teachers, and food. As usual she did a great job.

Our annual election is coming up on October 25th, 2014. It will be held in Mason, MI at *Los Tres Amigos* at 5:30.

Los Tres Amigos
447 S. Jefferson St., Mason, MI 48854
517-676-7701

We have a private room. We can order dinner there and enjoy the evening. Please be on time for this as we will start on time. . . order dinner and then hold our election and meeting during the dinner hour.

The nominating committee met at the Seminar in August and nomination results are as follows in the newsletter.

Thank you for allowing me to be President this year. I am not running for anything this year. Please come and support the newly elected people for the years of 2015.

Ruthann Lehner, President

NOMINATIONS

Here is the nominating committees results from their meeting on August 16, 2014.

President: Blake Glupker
Vice President: Barb Yost
Secretary: Dianna Dunaway
Treasurer: Melvin Lehner

All other committees are appointed by the President.

Nomination committee were as follows: Virginia Steele, Wally Frantz, Tyler Miller and Joe Materson.

Thank you all for your time that you put into this.

THE MIDWEST FACETER

is a publication of The Midwest Faceters Guild and is published bi-monthly. Copyright © 2013-14. All rights reserved. Gem cutting designs are used by permission of the respective authors. Article and design submissions are encouraged. Send requests to Editor Sandi Hartman at: O-11825 8th Ave. NW, Grand Rapids, MI 49534. Email submissions should be sent to sandiha10@yahoo.com. Word processing articles **MUST** be in MicroSoft Word format. Pictures are to be in JPEG format. Inclusion of articles and design submissions is at the sole discretion of the editor. Submission date is the 15th of the month **BEFORE** publication (December, February, April, June, August, October).

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ABOUT THE GUILD

The Midwest Faceters' Guild was established July 4, 1979 and chartered in October of that year. The Midwest Faceters' Guild is a member of the American Federation of Mineralogical and Geological Societies and the Midwest Federation of Mineralogical and Geological societies. Our purpose is:

- To promote education and recreation.
- To develop the art of faceting.
- To exchange information related to faceting.
- To provide meetings for those of like interests.
- To promote the achievement of individuals.

The official publication of the Midwest Faceters' Guild is *The Midwest Faceter*, published 6 times a year.

Membership in the Midwest Faceters' Guild is open to anyone with an interest in the art of Faceting, regardless of geographical location.

Membership applications are available on the website or by contacting the Membership Chairperson. Membership is \$20 single and \$30 family and includes a subscription to *The Midwest Faceter* and enables you to participate in Guild activities such as our Faceter Frats and gemstone competitions.

Only The Midwest Faceters' Guild members may also join our private group on Facebook, look up Midwest Faceters' Guild on Facebook, search and request to join us. It is a place to share problems, updates on how everyone is doing and what is going on. We can share information and patterns we develop on *GemCad*.

Make sure you give us your latest e-mail address, and let us know if you would prefer to just receive electronic copy of the newsletter only.

MEMBER NEWS



Mary L. Lee, of Davison, age 76, passed away July 13, 2014 at her residence. In lieu of flowers, memorial contributions may be made to the Midwest Faceters Guild or the Flint Rock and Gem Club. Mary was born in Flint, MI on December 31, 1937, daughter of the late John "Jack" and Elma Rivers. She married Wilfred Lee on December 31, 1955 in Flint, MI. Mary was a member of the Midwest Faceters Guild and the Flint Rock and Gem Club. She loved to travel, she and Wilfred visited every state in the U.S. Mary enjoyed crocheting, canning, cooking, reading and faceting.

I can say that I really admired Mary. She was so knowledgeable about gems and minerals. Mary enjoyed faceting and was very good at it. I spend time with her at some of our early frats and learned so much from her. Mary was so faithful to the Midwest Faceters Guild and traveled to all of our meetings and events. It was a privilege to have know her. Mary will be deeply missed. Barb Yost



TOURMALINE

Part 1

By Walter E. Johansen

Transparent varieties: Achroite (colorless), Rubellite (red to purplish red), Indicolite (light to dark blue), Emeraldite (medium to dark green, bluish green), Chrysolite tourmaline (greenish yellow to yellow green), Dravite (brown); watermelon type, two or more colors in rings from the center core of the crystal; bi-color also called parti-color, two or more colors at right angles to the length of the crystal. Tourmaline has the broadest color range of the important gem species. The present trend is to avoid the varietal color names such as rubellite, indicolite, etc. and simply describe the color as red tourmaline, blue tourmaline, etc.

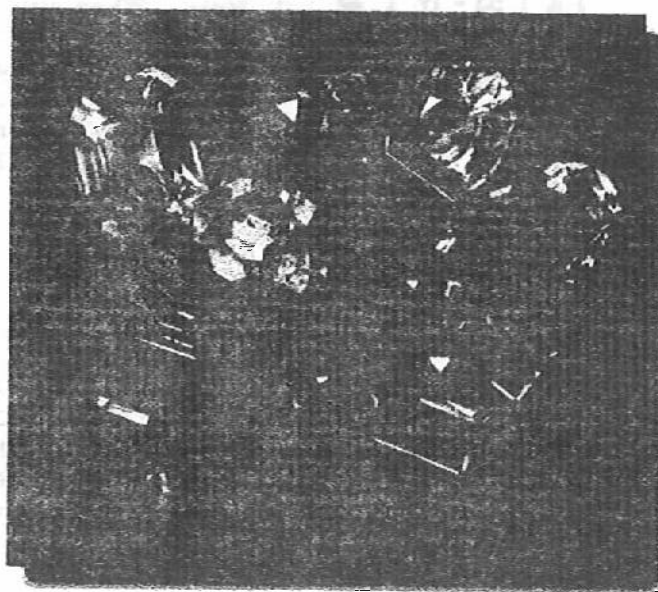
Opaque variety: Schorl (black). Hardness 7 to 7 1/2. Refractive Index 1.622 - 1.643. Critical Angles 30°1'. Toughness is good. Slightly heat sensitive. Dichroism is very strong. The Dictionary of Gems and Gemology 5th Edition by Robert Shipley defines dichroism as: "The property of most doubly refractive colored minerals of the tetragonal and hexagonal crystal systems of transmitting two different colors on two different (right angle) directions."

The range of color of tourmaline is practically that of the spectrum. The cutting loss is usually very little compared to rough such as amethyst. Tourmaline prices will range from relatively inexpensive to moderately expensive. No major problems are encountered in cutting or polishing.

In the cutting of a piece of tourmaline rough, a consideration will be the very strong dichroism that most stones display. The darker color is through the "C" axis of the crystal (the length of the crystal) so the stone would normally be cut in some form of a step cut for the best color, with the table facet parallel to the "C" axis. If the color seen through the "C" axis is very dark, cutting the "C" axis ends of the stone at a steep angle is beneficial (as much as 70°) and helps to minimize dark ends. Another technique must be considered if the color tone is dark across and with the "C" axis. To obtain any color it will be necessary to cut the stone shallow, considerably below the critical angle of 38°. This will depend on the depth of the color tone and if it is quite dark, as low as 30° may be necessary for the pavillion facets, sacrificing brilliance to obtain color. Tourmalines that pass light readily in all directions are cut to display the best color. Usually a form of the brilliant cut is very satisfactory. Crystals that are a light pink across the "C" axis will show a darker color tone if the table facet is placed across the "C" axis.

Cutters prize "nodules" of tourmaline. These are generally small and are broken out from often otherwise flawed crystals with a pair of pliers. "Nodules" are exceptionally clear and clean and highly transparent pieces usually shaped like two quarter domes placed back to back and at times slightly elongated. The usual indication of a "nodule" will be a domed surface on the end of a broken crystal.

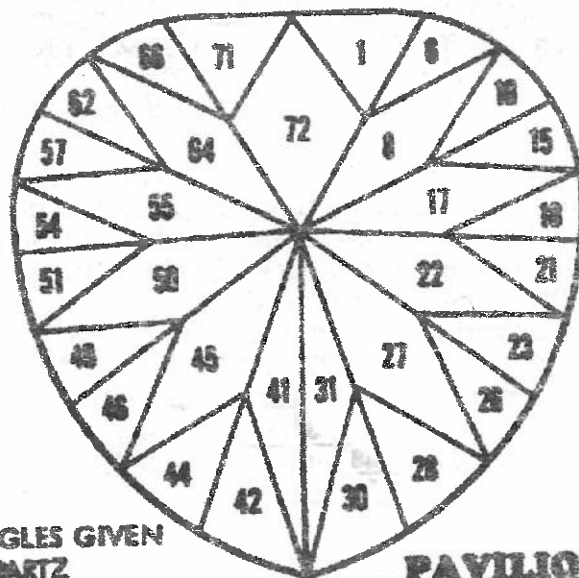
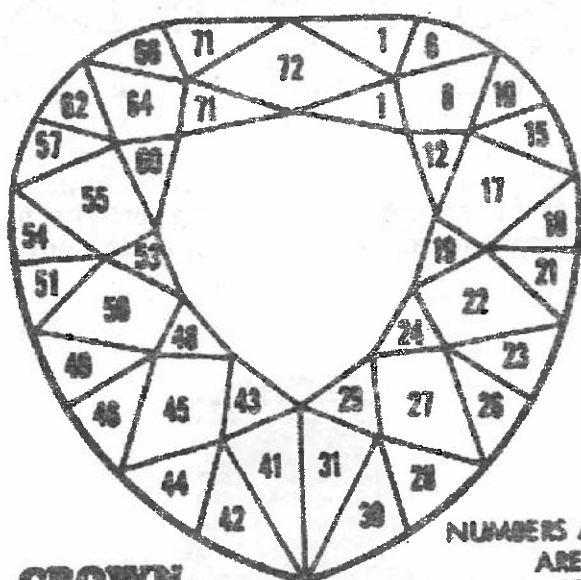
The usually recommended polishing laps and powder are a tin lap with Linde "A" or a type-metal lap with Linde "A". Large facets may have a tendency to scratch. Changing the direction of polishing helps if this condition persists. Being sensitive to heat, reasonable care must be taken in dopping.



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SAPPHIRE FACETING GUIDE NO. 12

After Making the Preform on the Off-Set Head, The Following Faceting can be done with the Standard Sapphire Head Equipped with a 72 Tooth Index Gear.



NUMBERS AND ANGLES GIVEN ARE FOR QUARTZ

CROWN

PAVILION

	INDEX	ANGLE
M A I N S	72	42°
	64 - 8	42°
	55 - 17	42°
	50 - 22	42°
	45 - 27	42°
	41 - 31	42°
S T A R S	71 - 1	34½°
	60 - 12	33°
	53 - 19	35°
	48 - 24	36°
	43 - 29	37°
G I R D L E S	71 - 1	45½°
	66 - 6	45½°
	62 - 10	45+°
	57 - 15	46½°
	54 - 18	44+°
	51 - 21	44+°
	49 - 23	45-°
	46 - 26	44-°
	44 - 28	46°
	42 - 30	46°

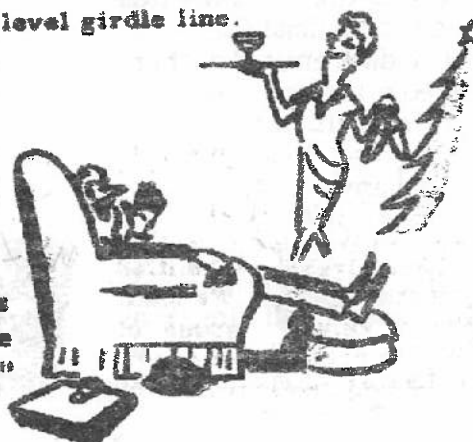
We suggest that you cut this simplified Heart first, in the 18 x 18 mm. size, to gain valuable experience and be able to see clearly what is being accomplished. Then try it in the smaller sizes.

On a Heart Cut, in order to equalize (proportion the stars and girdle facets), the compound is used extensively, subject of course to the judgement of the faceter.

Note - When cutting the pavilion, we suggest grinding first No. 72 and then fit in both No. 41 and No. 31 so that the three facets meet at a point. Then cut in the rest of the mains, again being careful that all facets come to one point, and also make a level girdle line.

	INDEX	ANGLE
M A I N S	72	48°
	41 - 31	41½°
	64 - 8	43+°
	55 - 17	43½°
	50 - 22	44½°
G I R D L E S	45 - 27	43½°
	71 - 1	50°
	66 - 6	46°
	62 - 10	44½°
	57 - 15	45°
	54 - 18	44½°
	51 - 21	45+°
	49 - 23	45½°
	46 - 26	45½+°
	44 - 28	44½°
	40 - 30	43½°

"All I promised was to use my Sapphire 2 hours a day, til - "



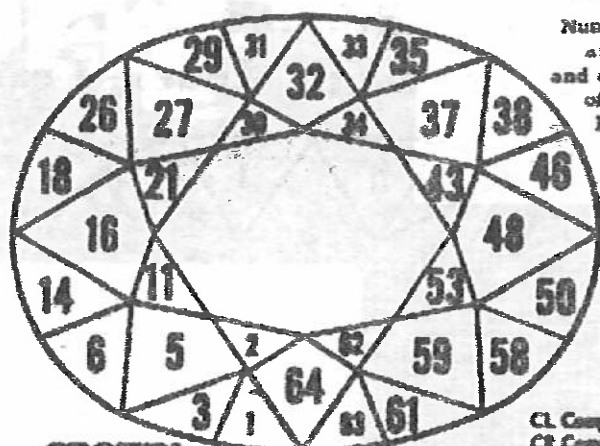
Season's Greetings



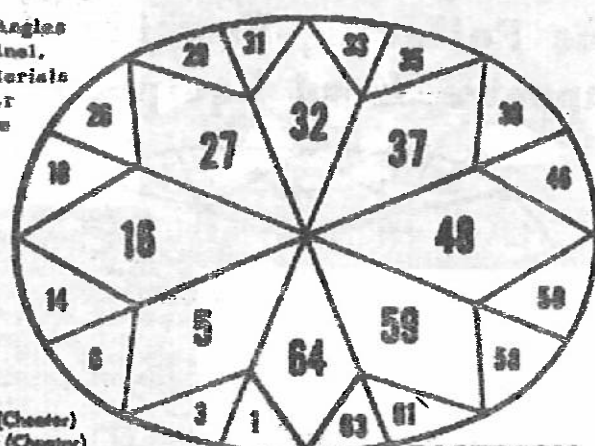
Reprinted from *Facetier* Vol. 1 No. 12, December 1966

SAPPHIRE FACETING GUIDE NO. 11

Faceting the Oval using a Standard Sapphire Head — 64 Index Gear.



Numbers & Angles are for Spinel, and other materials of a similar Refractive Index



C.L. Compound Left (Chester)
C.R. Compound Right (Chester)

CROWN

PAVILION

M	INDEX	ANGLE
A I N S	64 - 32	37°
	48 - 16	33°
	59 - 5	36°
	37 - 27	36°
S T A R S	62 - 2	28°
	34 - 30	28°
	C.R. 53 - 43 C.L.	19°
	C.R. 21 - 11 C.L.	19°
G I R D L E S	63 - 1	41½°
	33 - 31	41½°
	C.R. 61 - 35 C.L.	42°
	C.R. 29 - 3 C.L.	42°
	58 - 38	39°
	26 - 6	39°
	50 - 46	40°
	18 - 14	40°

M	INDEX	ANGLE
A I N S	64 - 32	42°
	48 - 16	35°
	59 - 37	39°
	27 - 5	39°
G I R D L E S	63 - 1	43½°
	33 - 31	43½°
	C.R. 61 - 35 C.L.	43°
	C.L. 35 - 29 C.R.	43°
	58 - 6	39°
	38 - 26	39°
	50 - 14	37½°
	46 - 18	37½°

The "Facetier" has for its main objectives the Enlightenment and Pleasure of the pursuers of our hobby. We will retain the true and tried methods for cutting and polishing and at the same time advance new ideas that are worthy of consideration of the specialists.

We are very encouraged by the letters from our readers ... their comments and there ready acceptance of "The Facetier." As one of our friends puts it, "it fills a void that has existed far too long." It contains helpful hints and suggestions for the Facetier, especially the "New Comers," who are joining us in this fascinating hobby.

The Prof

Dear Friends:

Again we are offering you the Oval cut but this time the angles are for spinel, corundum and other gems with similar refractive index. This completes the cycle of the four basic cuts which the offset head was originally designed for. The "Masque," "Aristocrat," "Charmant," the smart "Appealing" and last but not least, "The Old Standby," the Oval. All these fine cuts were offered to you for quartz and spinel. Facetiers have already submitted reports on variations of these cuts. We shall be happy to publish them in future issues of the "Facetier," and will of course give credit to the Facetier who's report is accepted for publication.

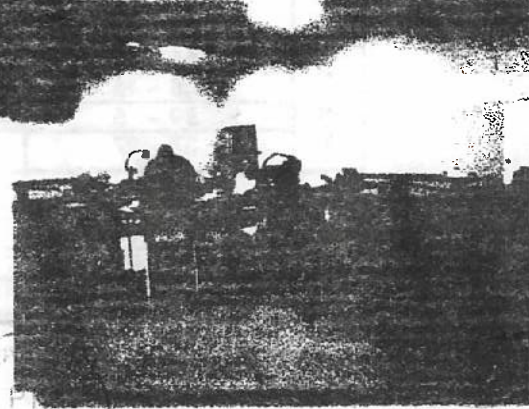
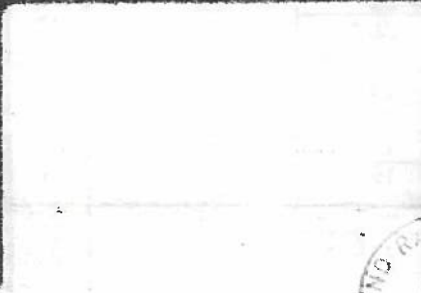
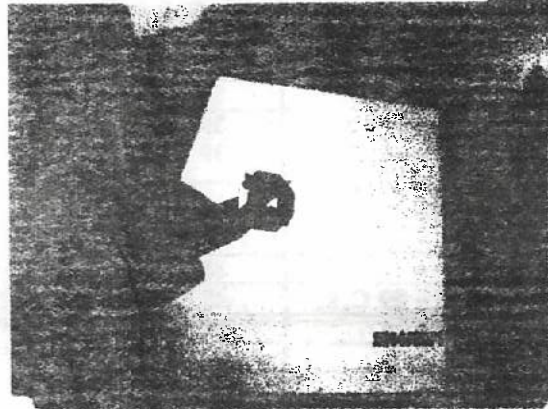
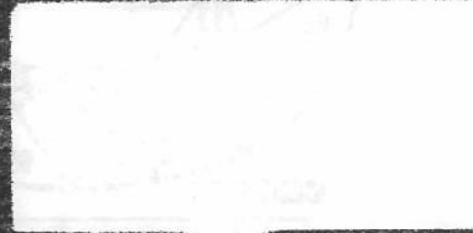
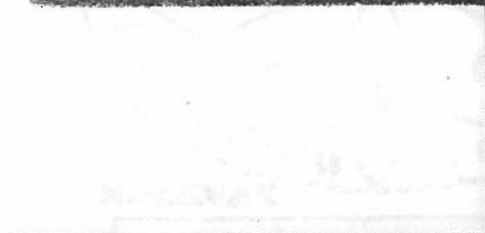
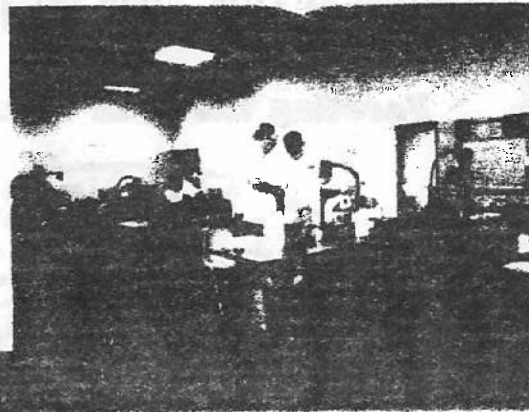
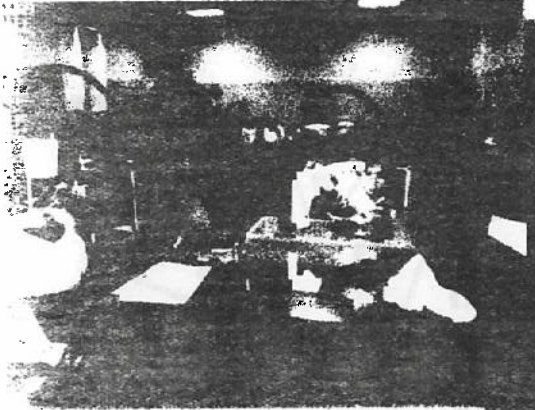


For the one You Love
Order a **Sapphire**
for Christmas



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Midwest Faceters Guild
Seminar 2014



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