

3-25-2005

MIDWEST FACETERS GUILD

AN AFFILIATE OF

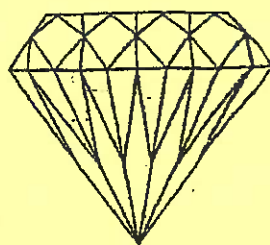
MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES

Midwest Faceters Guild 2005 Officers

President	Tyler Miller, 2071 West Reid Road, Flint, MI 48507-4644 (810) 655-6530; Fax (810) 655-2022 tmiller277@comcast.net
Vice President	Elsbeth N. Gibbs, 622 Eighth Street, Wyandotte, MI 48192-4536 (734) 282-3745
Secretary	Suzanne Hofer, 607 Lockhead, Flint, MI 48507 (810) 444-5315
Treasurer	Lorraine Demerly, 29043 Alvin, Garden City, MI 48135 (734) 427-4536

Meetings

DATE:	PLACE:	BULLETIN INFO DUE:
January 8, 2005	Mr. Brown's Backyard (Map Elsewhere)	November 22, 2004
March 12, 2005	Leon's, Dearborn (Map Elsewhere)	January 24, 2005
May 14, 2005	To be determined	March 28, 2005
July 9, 2005	Picnic at ??	May 23, 2005
August 19-21, 2005	Seminar	July 4, 2005
October 5, 2005	Annual Meeting	August 22, 2005
November 11, 12, 13	Annual Show	September 26, 2005



March, 2005
Vol. 25, Issue 2

The Midwest Faceter

A Publication of the Midwest Faceters Guild

Send all Articles to the
Midwest Faceter
c/o Co-Editor
Elsbeth N. Gibbs
(Happy)
622 Eighth Street
Wyandotte, MI 48192
Phone: (734) 282-3745

Newsletter Deadline is
seven weeks prior to the
MFG meeting

Membership Applications
or address changes
contact:
Linda Sharkey
1009 Neeb Road
Cincinnati, OH 45233-4106
Phone: (513) 451-0164

Established July 14, 1979
Purposes:
To promote education and
recreation
To develop the art of faceting
To exchange information related
to faceting
To provide meeting for those of
like interests
To promote the achievement of
individuals

THE MIDWEST FACETER is
the official publication of the
MIDWEST FACETERS GUILD
and is published five times a
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as a portion of their membership
dues. Statements appearing in
the MIDWEST FACETER are
those of the authors and not
necessarily those of the
MIDWEST FACETERS GUILD,
MFG Board of Directors, or the
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The editors reserve the right to
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Co-Editors

Jacquie Swain
20719 Wendy Lane
Grosse Pointe Woods
MI 48236
Phone: (313) 881-4828

Elsbeth N. Gibbs
622 Eighth Street
Wyandotte, MI 48192
Phone: (734) 282-3745

EXCHANGE EDITORS

Please send exchange
newsletters to Elsbeth N. Gibbs

COMMITTEE CHAIRPEOPLE 2004

Co-Editors Elspeth N. (Happy) Gibbs, 622 Eighth Street, Wyandotte, MI 48192-2637
(734) 282-3745
Jacqueline Swain, 20719 Wendy Lane, Grosse Pointe Woods, MI 48236
(313) 881-4828 jacswain018@aol.com

Education/Programs

Historian Virginia E. Steele, 1918 Wood St., Elkhart, IN 46514-3158
(219) 522-8846 vesteele@aol.com

Mailing/Publisher Margaret Rudd, 622 Eighth Street, Wyandotte, MI 48192-2637
(734) 282-3745

Membership Linda Sharkey, 1009 Neeb Road, Cincinnati, OH 45238-4106
(513) 451-0164 sharkcake@earthlink.net

Seminar 2005 Tyler Miller, West Reid Road, Flint, MI 48507-4644
(810) 655-6530 [FAX] (810) 655-2022 tmiller277@comcast.net
Jacqueline Swain, 20719 Wendy Lane, Grosse Pointe Woods, MI 48236
(313) 881-4828 jacswain018@aol.com

Show 2005 Jacqueline Swain, 20719 Wendy Lane, Grosse Pointe Woods, MI 48236
(313) 881-4828 jacswain018@aol.com

Midwest Faceters Guild Membership
Linda Sharkey, Membership Chairman

Dues are \$20.00 per fiscal year or portion of a year. (Fiscal Year is January 1st through December 31st.) Includes subscription to "The Midwest Faceter."

Name _____

Street _____ City _____ State _____

Zip Code _____ Phone () _____ Country _____

E Mail _____

Do you teach faceting? _____ What type of machine do you have _____

MAKE ALL CHECKS PAYABLE TO: Midwest Faceters Guild and send to:

Linda Sharkey, 1009 Neeb Road, Cincinnati, Ohio 45223-4106
(513) 451-0165 Email: sharkcake@earthlink.net

MARCH 12TH GUILD MEETING

The next meeting of the Guild is March 12, 2005 from 10:00 am – 4:00 pm, with lunch from 12:00 noon to 1:00 pm. The meeting will be held at Leon's, 23830 Michigan Avenue (close to Telegraph).

If you come from the north on Telegraph, you will turn east or to the left onto Michigan Avenue. If you come from the south, you will turn east or to the right onto Telegraph (there are signs and turns on signs also).

Leon's is on the north side of Michigan Avenue and parking is in the back behind the restaurant.

WELCOME To A New Member

Laura Thomas
24 Outlook Drive
Tallmadge, OH 44278
(330) 630-8115

Address Changes:

Suzanne Hofer
607 Lockhead Avenue
Flint, MI 48507
(810) 444-48341

Richard Baldwin
124 Oneida
Pontiac, MI 48341

IN MEMORIUM

Our sympathy to the William Hendrick family on the passing of K. Jeanette Hendrick on January 11th, 2005. She was a lovely person who cared greatly about her family. She will be missed by all who knew her.

UPCOMING SHOWS

March 12th: **Chicago Rocks & Minerals Society Silent Auction, Chicago, IL.** 4056 North Pulaski Avenue. Preview starting at 5:30 pm; bidding at 5:45 pm – 10:00 pm. Contact Fran Gutkowski, (773) 775-9549

March 12-13. **Geodeland Earth Science Society Annual Show, Macomb, IL.** WIU Student Union, Murray Street, Sat 10:00 am – 6:00 pm and Sun 10:00 am – 5:00 pm. Contact Dean Stone, 900 Willard Street, Galesburg, IL 61401, (309) 342-7132

March 26th. **Midwest Mineralogical & Lapidary Society of Dearborn Annual Rock Swap, Taylor, MI.** Democratic Club of Taylor, 23400 Wick Road, Sat 10:00 am – 5:00 pm. Free admission. For more info contact (313) 276-5063

April 22-24. **Mt Clemens-Macomb Annual Rock and Mineral Show, Roseville, MI.** Roseville Recreation Center, Fri 10:00 – 7:00; Sat 10:00 – 7:00 and Sun 10:00 – 4:00. For info contact Jacquie Swain (313) 881-7656 or e mail jacswein018@aol.com

April 29 – May 1. **Kalamazoo Gem and Mineral Show and Sale, Kalamazoo, MI.** County Center Building, "Fairgrounds", 2900 Lake Street. Contact Kitty Starbuck, (269) 649-1991

****NEWSLETTER EXCHANGE EDITORS****

There are some editors who faithfully send their Newsletters and then there are those who don't. Newsletters are certainly read, articles and facet diagrams are used and credit is given. Please check your mail and if you receive our Newsletter, send us one of yours! We would welcome them!

MFG Board and General Meeting January 8, 2005

The meeting was called to order by Tyler Miller, President, at 10:25 am with 12 members present. He announced the guild was trying a combined board and general meeting in order to avoid unnecessary repetition and allowing more time for the presentation and for members to enjoy socializing. Ernie Aughenbaugh asked if this was announced in the newsletter; the answer was it had not been decided until two weeks ago.

Secretary's report

A motion was made by C. Sharkey to accept the secretary's report as published; L. Sharkey made a correction regarding her display at Geo Fest of florescent minerals; she was not a faceting demonstrator as stated in the minutes. The correction was noted. Also, a correction was needed regarding a misprint in the bulletin that read "We have not bought a trailer". It should read "we have bought a trailer". This correction was also noted. There were no other additions or corrections. The motion to accept the minutes with corrections was seconded by T. Miller and passed unanimously.

Treasurer's Report

The treasurer's report was not given due to the treasurer being out of town.

Linda Sharkey gave an accounting of the current membership status as of the day of the meeting. The guild has 56 members that have not as yet paid, and the guild has 57 members who have paid. She reminded the guild that dues are due on February 25, 2005 and that names will be deleted from the mailing list until dues arrive.

Old Business

There is still a need for a show chairman. Jacquie Swain volunteered. Elspeth Gibbs volunteered to assist. Bob Wodarak volunteered to help the set up of the show and D. Demerly as program chairman. A discussion regarding the location of the next show came up. At this time it has not been decided whether or not to use the Taylor Sportsplex again as it is very expensive. At this time, the guild is very limited in funds and may need to find a more reasonably priced location. Several location sites were discussed. E. Gibbs asked about exploring other possibilities and that there be a report at the

next meeting in March. Also, B. Wodarak announced to the guild members that he will not be holding the annual summer picnic this year.

L. Sharkey reminded the guild members of the in-house raffle. Members were encouraged to purchase any amount of tickets they could afford and all had a great time waiting to see if their ticket had been pulled!

New Business

Charles Sharkey brought up a serious concern regarding the ability for only one person (the treasurer) to be able to make deposits for the guild. Since our treasurer is out of town for several months and the fact that membership dues are arriving, there is a real need to be able to deposit these funds immediately. A lively discussion ensued. The president of the guild, Tyler Miller, explained that there are three peoples' names on the account, however, only the treasurer can make deposits in order to manage recording any and all deposits made. Penny McMaster suggested opening a new temporary account to hold the dues money until the treasurer returns. T. Miller said he will look into this. It was suggested that opening the account at the same bank that the guild does the banking. C. Sharkey made a motion to create a second account to hold the dues money in. B. Wodarak seconded the motion. Motion passed with one abstention.

There is still a need for a show chairman. Jacquie Swain volunteered. Elspeth Gibbs volunteered to assist. Bob Wodarak volunteered to run the set up of the show. A discussion regarding the location of the next show came up. At this time it has not been decided whether or not to use the Taylor Sportsplex again as it is very expensive. At this time, the guild is very limited in funds and may need to find a more reasonably priced location. Several location sites were discussed. E. Gibbs asked about exploring other possibilities and that there be a report at the next meeting in March.

There will be a show committee meeting on February 26, 2005, at Jacquie Swain's home to discuss the show. A motion was made by J. Swain to hold the meeting. L. Domorsky seconded it and the motion was passed unanimously. L. Sharkey made a motion to stop sellers who are not MFG members from selling at the seminar. There was a general discussion regarding this. It was seconded by T. Miller and the motion passed unanimously.

L. Sharkey opened a discussion of the need that an impartial 3rd person be hired to audit the guild books. E. Gibbs made a motion to change the by-laws

regarding auditing the books. It was suggested a committee be formed at a later date to look into this and that for this year, to follow the existing by-laws. The motion was tabled.

L. Sharkey expressed a concern about the cost to the guild paying for the dinners of guests and teachers at the yearly seminar. Discussion followed. E. Gibbs would like the teachers to receive their dinner free. B. Wodarak made a suggestion that the guild pay for half of the cost of their dinners. The motion to have instructors and guests pay for their own dinners was made by L. Sharkey and seconded by G. Domorsky. The motion was carried unanimously. Also, a motion was made by T. Miller that there be a cracker barrel discussion at the next seminar instead of a guest speaker, in order to conserve money. The motion was seconded by G. Domorsky and it was carried unanimously. Gayle also suggested each person attending the seminar write a question on the registration form. Also, T. Miller is to contact Mary Meeker at Mott Community College regarding the MFG non-profit status and how it would affect the cost of the seminar. There could be a substantial savings, even as much as \$800.00.

T. Miller would like to have a meeting in Indiana, possibly near Virginia Steele. There was a general discussion about this occurring possibly in the summer. L. Sharkey said she will look into locations.

Elsbeth Gibbs did a much needed review on conduct and procedures at the meetings. Several questions were raised and answered on how to have discussions, make motions, etc.

The guild welcomed new member Walt Sedleman from Grand Rapids.

The meeting was adjourned at 12:05pm.

Respectfully Submitted,

Sue Hofer
Recording Secretary

*If you know someone who has yet to pay their dues,
please remind them we need them as members*



**Special Board Meeting
Wrapup and Financial
Held in Flint on December 11, 2004
At Wallis Restaurant**

The meeting was called to order at 10:10 am by President Tyler Miller.

Larraine Demerly, Guild Treasurer, presented the year 2004 financial report. Her report was presented in great detail. A general discussion ensued regarding all aspects of the report.

Discussion of the need for commitments from show workers and demonstrators for 2005 was held. These commitments are needed as soon as possible.

Possible changes were discussed for the hospitality room, possibly to the arena area outside the glass area with curtains around the area. This would eliminate the need for renting the upstairs room.

A theme for the show is needed. If you have any ideas please submit them.

Tyler Miller reported that the Mt. Clemens Club has given their half of the computer to the Midwest Faceters Guild without compensation. A recess for lunch was agreed to at 12:05 and resumed at 1:12 pm.

A motion was made by Elspeth Gibbs to have a show in 2005. Motion was seconded by Daniel Woodruff; motion was carried with 9 votes and 5 against.

Dennis Demerly made a motion that we have Larraine Demerly request that we ask the Sportsplex for a delay in the deposit of \$450.00 for the 2005 show due the inclement weather on December 11th. Leonard Domorsky seconded the motion. A final vote will be delayed until the January meeting. Motion was passed with one dissenting vote.

A discussion about the lack of immediate funds to cover the show and possible ways to raise the funds needed. Some possible ways are: cooperating with other clubs to change club mailing lists for club shows; this would send show flyers to individuals that have a proven interest in Gem and Mineral shows; the possibility of offering some of the guild owned rough for auction at quarterly meetings; having a house raffle at each meeting of items donated by the membership.

A motion was made by Linda Sharkey to take a break and have the raffle drawing of prizes that she had donated. Elspeth Gibbs seconded the motion; motion carried unanimously.

The raffle brought in \$37.00 for the guild. All present enjoyed the raffle. Thank you to Linda and Charles Sharkey for a job well done who donated all prizes and ran the raffle. Fun was held by all present.

A suggestion was made by Ernest Aughenbaugh to have members put up \$100.00 each to insure enough funds would be available to finance our show. If funds were not needed, they then would be returned to the contributing members; names of contributors would not be published. Funds could be put into a short term money market certificate to draw interest. It was suggested that this discussion be brought up at the next meeting of the general membership. The President will add this to the business agenda.

Lorraine Demerly made a motion to adjourn the meeting; Gayle Domorsky seconded the motion; motion carried unanimously. The meeting was adjourned at 2:35 pm.

Respectfully Submitted,
Sue Hofer, Secretary

Linda Sharkey held another in house raffle which netted \$47.00. All members enjoyed the raffle of donated items by the members. Items donated were homemade crafts and baked goods, facet rough and tins of cookies and candies.

Another thing that was decided on was to eliminate a guest speaker for the banquet at the seminar and have a "Cracker Barrel" (a panel of "experts" to answer questions from the audience) type discussion. We will include a form to submit questions to the panel to answer as well as questions being fielded at the banquet.

We are looking into the possibility of having our July meeting in the Indiana area. This would give the Members in Indiana and Illinois a chance to participate in our meetings.

Tyler Miller, President

FROM THE PRESIDENT'S QUILL . . .

Here it is 2005 and my calendar is filling up way too fast; it seems as though things are popping out of thin air.

At the December special board/financial meeting at Walli's in Flint it was suggested by Gayle Domorsky that the board meeting and the general membership meeting be combined so we could have time for a program. I decided to give it a try at the January meeting at Mr. Browns Back Yard in Flint to see if the membership would prefer the meetings combined or separate. I volunteered to give a talk for the program on how and what problems that I encountered while cutting the "Spider Stone." Everyone said that they enjoyed the new format and would look forward to future meetings.

Leonard Domorsky, our Program Chairman, informed me that Bob Wodarak would be giving the program for the March meeting. Bob will be telling what is involved in making his various diamond products that he sells.

Jacquie Swain has volunteered to be Show Chairperson and Bob Wodarak will help with the show setup.

Have fun!

FOOL-ERS: Arkansas 'diamonds' are really quartz. Can you match these? (By Jack Dare)

- | | |
|---------------------|---------------------|
| 1. Transvaal Jade | A. Calcite |
| 2. Alaskan Diamond | B. Citrine |
| 3. Canadian Lapis | C. Garnet |
| 4. Flowering Jade | D. Grossular Garnet |
| 5. Mexican Onyx | E. Hematite |
| 6. Soochow Jade | F. Idocrase |
| 7. Swiss Lapis | G. Iolite |
| 8. Evening Emerald | H. Jasper |
| 9. Arizona Ruby | I. Labradorite |
| 10. Black Moonstone | J. Peridot |
| 11. California Jade | K. Serpentine |
| 12. Scotch Topaz | L. Sodalite |
| 13. Water Sapphire | M. Thulite |

Answers elsewhere in Newsletter

Thank you to Kitty Starbuck's compilation of puzzles from past Newsletters!

Transferring

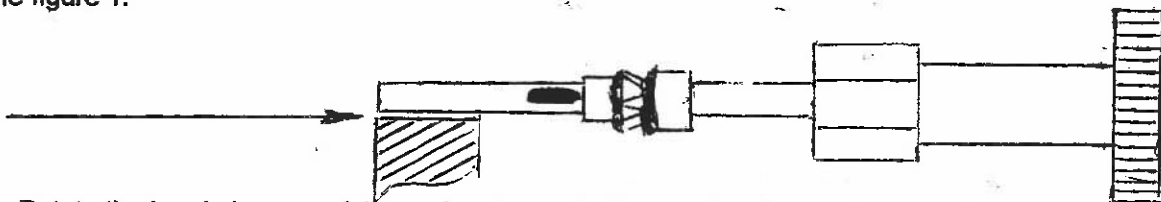
By: Bill Horton

Transferring is one of the most difficult skills in faceting. It takes a very good transfer block, as well as a good deal of patience, and some skill.

If you think about the process, visualize the assembly of the original dop, the half completed gemstone and the transfer dop. This assembly is approximately 5 inches in length. There will be some "run-out" in this assembly. A good rule of thumb is to have less than three thousandths of an inch. This will enable you to have the crown aligned properly with the pavilion, resulting in a uniform girdle width.

The faceting machine platen has the shaft that holds the laps. It's a very useful tool to check the "run-out" of the assembly. I usually facet the pavilion first, but that's not important. This procedure will work whether you facet the crown or the pavilion first. When I have completed the first half of the gemstone, and I'm ready for the transfer, I use a "sharpie" to mark a spot on the original dop, at the highest index number. I use a micrometer to measure the diameter of the dops. I have several bins in the tool box. The bins are labeled for the diameters of the dops. Dops are made with the shafts .250 inches. Some undersized .001, .0015, .002, etc. Make sure to use the dops of equal diameters. I have used a "centering" drill to drill a very small hole in the dops where the culet will rest in the transfer dop. I place a very tiny bit of "play dough" in this recess. This helps to protect the culet while cutting the other half of the gemstone. Clean the area with alcohol that will receive the glue. Place the original dop and half finished assembly into the transfer block. Attach the transfer dop and glue this to the original. Allow time for the glue to set up.

Place the assembly back into the hand piece with the transfer dop into the hand piece, with the mark from the sharpie aligned to the highest index. Let's assume for this article, it will be index number 96. Place the elevation to 90 degrees, and the hand piece in "free wheeling". Lower the hand piece so the extreme end of the original dop just starts to touch the platen shaft, as in the figure 1.



Rotate the hand piece carefully, and watch the indices of the index gear. Let's assume just for this article, that the end of the original dop barely touches the shaft from index 24 back toward index 96 and releases at index 72. That will tell you that index 96 is the lowest spot of the run out. Stop the assembly at index 96, and raise the hand piece until the end of the original dop just swings free. Rotate the hand piece 180 degrees. This will be index 48. Lock the hand piece at index 48 and read the clearance, using "feeler stock". Feeler stock can be purchased at auto parts stores. I start a data sheet at this point in the transferring process. This is where the mark of the sharpie comes into play. If the above run-out is .007 inches, record this in the data bank. Move the assembly so the mark of the sharpie is now at index 48. Repeat the above procedure and record the run-out in the data bank. Rotate the assembly so the mark of the sharpie is on index 24, and repeat the above. Rotate the make to index 72 and repeat the procedure. If you achieve a run-out of less than .003, breath a sigh of relief. Wet a folded up Kleenex and wet it thoroughly. Wrap the transfer dop and gemstone with the wet Kleenex. Heat the original dop at the very end, away from the gemstone. The heat will travel up the dop and allow the original dop to loosen. The wet Kleenex will absorb the heat and protect the bonding of the gemstone to the transferred dop. If you do not find a run-out if .003 of an inch or less, you might be better to try another transfer dop.

96 at 96 = .007

96 at 48 = .006

96 at 24 = .004

96 at 72 = .002

**In House Raffle Held
On January 8, 2005**

Donor:	Item:	Winner:
Tyler & Barbara Miller	Plastic heart Box with Quartz Heart	Glenn Swain
Tyler & Barbara Miler	Amber CZ (syn)	Walter Seidelman
Tyler & Barbara Miller	Pink corundum (syn)	Ken Wise
Ernie Aughenbaugh	Crocheted scarf	Tyler Miller
Ernie Aughenbaugh	Crocheted scarf	Sue Hofer
Ernie Aughenbaugh	Crocheted scarf	Ken Wise
Leonard & Gayle Domorsky	Red set of cloth bowls	Penny McMaster
Leonard & Gayle Domorsky	Green set of cloth bowls	Barbara Miller
Leonard & Gayle Domorsky	Flowered cloth bowl	Ernie Aughenbaugh
Sharkey's	Peanut Brittle	Ken Wise
Sharkey's	Peanut Brittle	Barbara Miller
Sharkey's	Cookies	Charles Sharkey
Sharkey's	Cookies	Bob Wodarak
Sharkey's	Cookies	Ernie Aughenbaugh
Sharkey's	Cookies	Fred Dady
Sharkey's	Candy	Alan McMaster
Sharkey's	Candy	Ernie Aughenbaugh
Sharkey's	Candy	Ernie Aughenbaugh
Sharkey's	Candy	Happy Gibbs
Sharkey's	Plastic heart Box with Blue Spinel syn	Alan McMaster

A BIG THANK YOU TO ALL WHO PARTICIPATED!



YOUR HELP IS NEEDED!

Linda Sharkey is trying to get recipes together so a cookbook from the Faceters Guild can be published to make money for the Guild.

Please send her at least 8 of your favorite recipes and help the Guild put money into the treasury.

The recipes can be from all one category or how you want to contribute. Please include your name, address, phone and email in case she has a question.

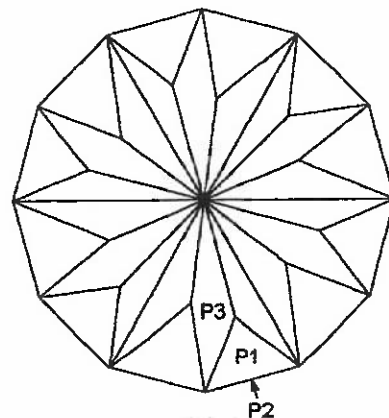
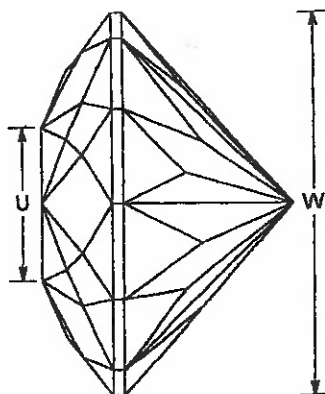
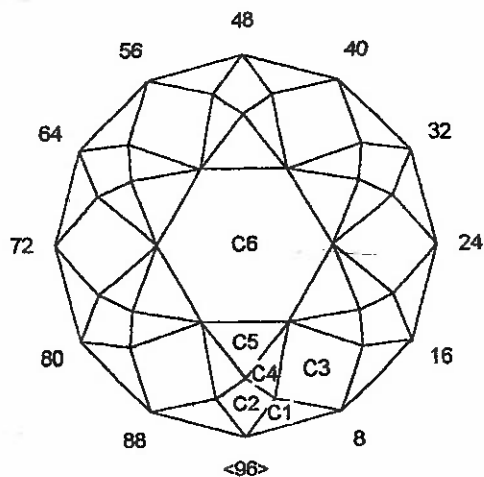
GUYS, get your favorite recipe from your mother, wife or girlfriend.

The categories will be: Appetizers and Beverages; Vegetables and Side Dishes; Breads and Rolls; Cookies And Candy; Soups and Salads; Main Dishes; Desserts; and This and That.

Let's make "GEMS From Our Kitchens" a GREAT success.

Please mail recipes to: Linda Sharkey, 1009 Neeb Road, Cincinnati, Ohio 45233-4106
email: sharkcake@earthlink.net

DEADLINE FOR RECIPES IS MARCH 1, 2005



THE SUMMIT BRILLIANT

My tribute to THE SUMMIT LAPIDARY CLUB in Cuyahoga Falls, Ohio

Designed by Jim Perkins jperkins@ohio.net

Copyright: October 1, 2003

Angles for R.I. = 1.540

73 + 12 girdles = 85 facets

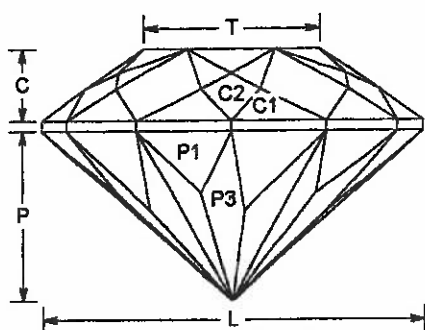
6-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.464 U/W = 0.402

P/W = 0.446 C/W = 0.188

Vol./W³ = 0.219



PAVILION

P1	44.50°	04-12-20-28-36-44-52-60-68-76-84-92	TEMPORARY CENTER POINT (TCP).
P2	90.00°	04-12-20-28-36-44-52-60-68-76-84-92	CUT SIZE, LEVEL GIRDLE.
P3	42.00°	02-06-10-18-22-26-34-38-42-50-54-58-66-70-74-82-86-90	PCP, GMP.

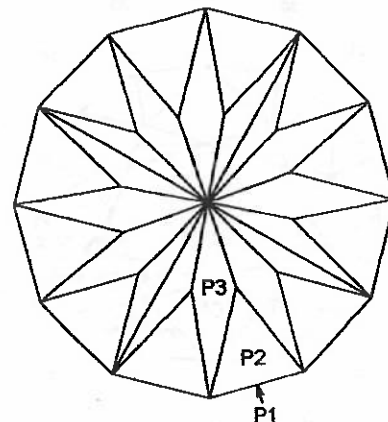
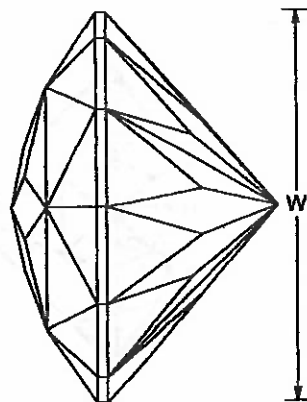
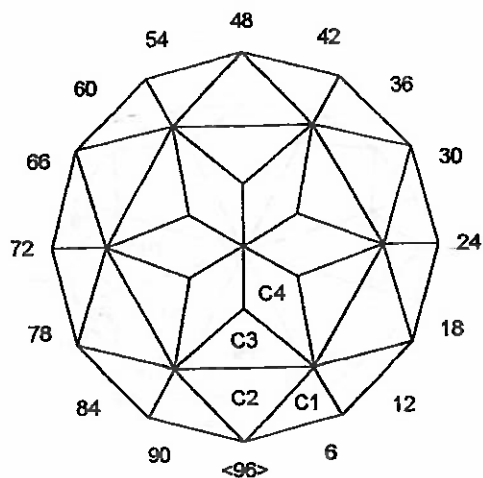
CROWN

C1	46.00°	04-12-20-28-36-44-52-60-68-76-84-92	LEVEL GIRDLE. THICKNESS .4MM
C2	38.50°	96-16-32-48-64-80	GMP.
C3	35.00°	08-24-40-56-72-88	GMP.
C4	30.50°	04-12-20-28-36-44-52-60-68-76-84-92	MP@C1.
C5	24.00°	96-16-32-48-64-80	MP@ C2.
C6	0.00°	Table	mp@ C3, C4 & C5.

Computed average face up brilliance RI=1.54 (QUARTZ) ISO=71.0% COS=65.9% Delta=5.1%
 Dispersion=4.6% Scintillation= 24.9% For RI=2.16 (CZ) ISO= 91.1% COS=74.6% Delta=16.5%
 Dispersion= 5.6% Scintillation= 50.8%. Cut in lighter colors or clear/white to obtain the best optical performance. Enjoy!

A:\summit.gem

Faceting designs printed with the express permission
 of Jim Perkins.



LIGHT OF MEDINA

Designed by Jim Perkins

jperkins@ohio.net

Copyright: December 26, 2003

Angles for R.I. = 1.760

58 + 12 girdles = 70 facets

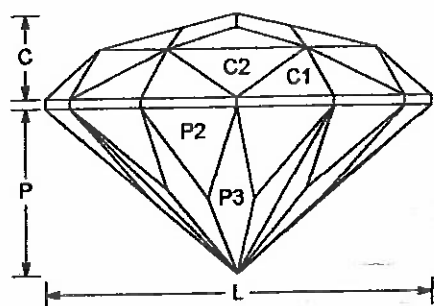
2-fold radial symmetry

96 index

L/W = 1.000

P/W = 0.434 C/W = 0.212

Vol./W³ = 0.208



PAVILION

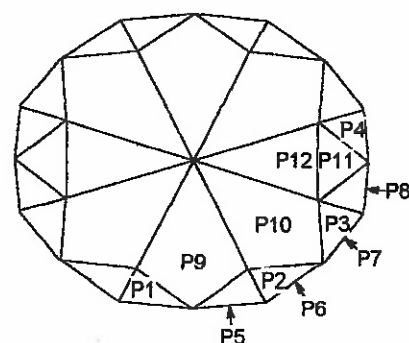
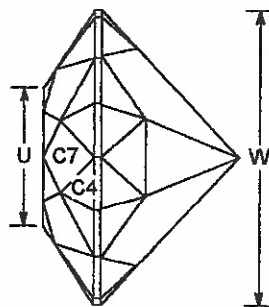
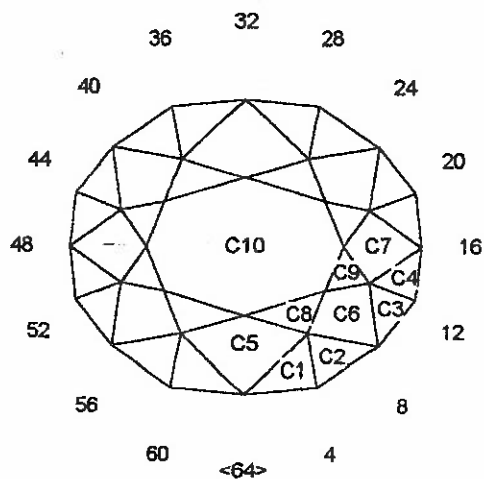
P1	90.00°	04-12-20-28- 36-44-52-60- 68-76-84-92	Cut to size.
P2	43.50°	04-12-20-28- 36-44-52-60- 68-76-84-92	TCP, Level girdle.
P3	41.00°	01-09-15-17- 25-33-39-41- 49-57-63-65- 73-81-87-89	PCP, GMP.

CROWN

C1	42.00°	04-12-20-28- 36-44-52-60- 68-76-84-92	Level girdle.
C2	33.00°	96-16-32-48- 64-80	GMP.
C3	20.00°	96-16-32-48- 64-80	MP @ C1 & C2.
C4	14.00°	08-24-40-56- 72-88	MP @ C1, C2 & C3.

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Computed average face up brilliance for sapphire. ISO= 91.2 COS= 81.4% DELTA= 9.8%
DISPERSION= 7.1% SCINTILLATION= 34.5%.
A:\LIGHTO~1.GEM



SMITHSONIAN INSPIRATION

Designed by Jim Perkins

jperkins@ohio.net

Copyright April 9, 2004

Angles for R.I. = 2.160

59 + 16 girdles = 75 facets

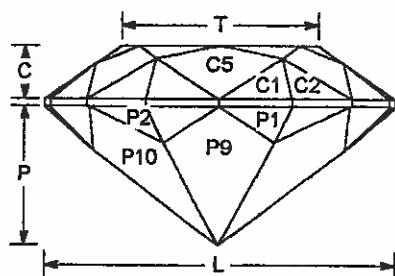
2-fold, mirror-image symmetry

64 index

L/W = 1.200 T/W = 0.674 U/W = 0.471

P/W = 0.477 C/W = 0.180

Vol./W³ = 0.290



PAVILION

P1	48.03°	01-31-33-63	TCP.
P2	45.56°	06-26-38-58	TCP.
P3	45.73°	09-23-41-55	TCP.
P4	43.74°	15-17-47-49	TCP.
P5	90.00°	01-31-33-63	Cut to width.
P6	90.00°	06-26-38-58	Level girdle to P5.
P7	90.00°	09-23-41-55	Level girdle to P6.
P8	90.00°	15-17-47-49	Level girdle to P7.
P9	43.47°	64-32	GMP.
P10	40.83°	07-25-39-57	GMP.
P11	41.33°	16-48	GMP & MP @ P3, P4 & P9.
P12	37.00°	16-48	MP@ PCP & P3, P4 & P11

CROWN

C1	37.34°	01-31-33-63	Cut girdle width & level girdle.
C2	39.53°	06-26-38-58	Level girdle to C1.
C3	37.01°	09-23-41-55	Level girdle to C2.
C4	36.40°	15-17-47-49	Level girdle to C3.
C5	34.20°	64-32	GMP.
C6	34.78°	08-24-40-56	GMP.
C7	34.34°	16-48	GMP.
C8	19.23°	03-29-35-61	MP@ C1 & C2.
C9	25.00°	12-20-44-52	MP@ C3 & C4.
C10	0.00°	Table	MP@ C5, C6 & C7.

My design was inspired by a recent visit to the National Gem Collection at the Smithsonian Institution museum of natural history in Washington, D.C. Computed average face up optical performance optimized for C.Z.

ISO= 85.8% COS=61.5% DELTA= 24.3% DISPERSION=16.7% SCINTILLATION= 53.4%.

A:\Smithsonian.gem

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Membership Chairperson, Linda Sharkey

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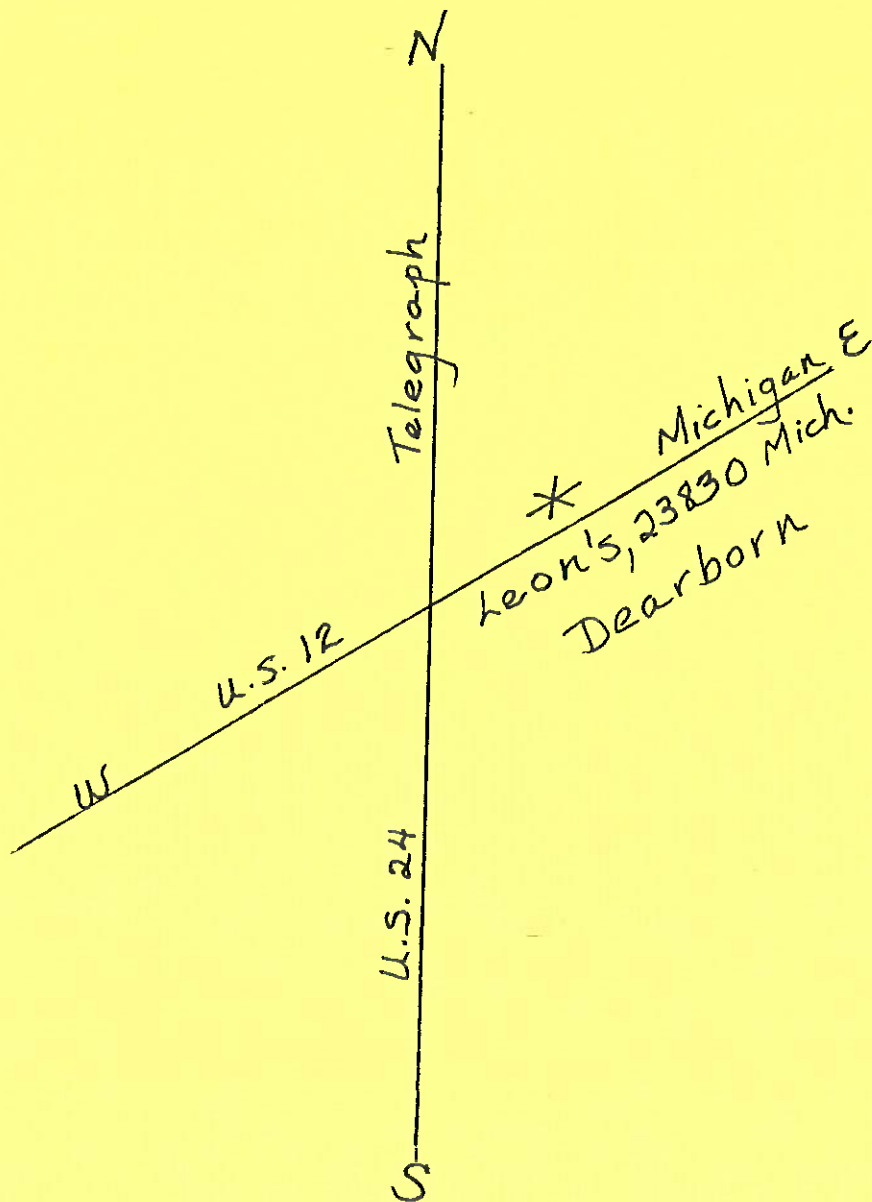
Name _____

Address _____

City _____ State _____ ZIP _____

- 1-D, 6-K, 10-I, 3-E, 7-H, 11-F, 2-E, 4-M, 5-A,
 2-E, 7-H, 11-F, 3-L, 8-J, 12-B, 9-C, 13-G,
 4-M, 5-A, 9-C, 13-G

Answers:
 FOOL-ERS, by Jack Dare



* Map not to scale!!

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