

THE MIDWEST FACETER



VOLUME 6 NO. 2

MARCH, 1985

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

THE MIDWEST FACETER
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THE MIDWEST FACETER

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

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Ted F. Engel, Vice-President
Bernard Bush Secretary
Elery L. Holt Treasurer
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Bernard Bush
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Elery L. Holt
William J. Horton
Dorothy Loyd
David B. Miller
Harold "Arizona" Rice
William Schell

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ATTENTION GUILD MEMBERS

William Gardiner, your Membership Chairman, keeps the mailing list up-to-date. Use the form below if your name or address contains errors, or if you are renewing your membership. New members may also use this form to join.

Tear Off

Tear Off

Tear Off

FACETERS GUILD APPLICATION FORM

NAME _____

COMPLETE ADDRESS _____

TELEPHONE _____

This fiscal year is Jan. 1 through Dec. 31st. Dues are \$5.00 per year or portion of a year. Make checks payable to Midwest Faceters Guild and send to William Gardiner, 4518 Sandstone Drive, Williamston, Michigan 48895.

ZIP CODE _____

HELLO, EVERYONE. IT'S SHOW TIME!!!



Our SHOW is rapidly approaching. I would like to take this opportunity to invite each of you to participate in this affair. The SHOW will only be successful if each of us shares in the experience.

There are twenty five areas of competition. Try very hard to enter at least one of these classes of competition. If

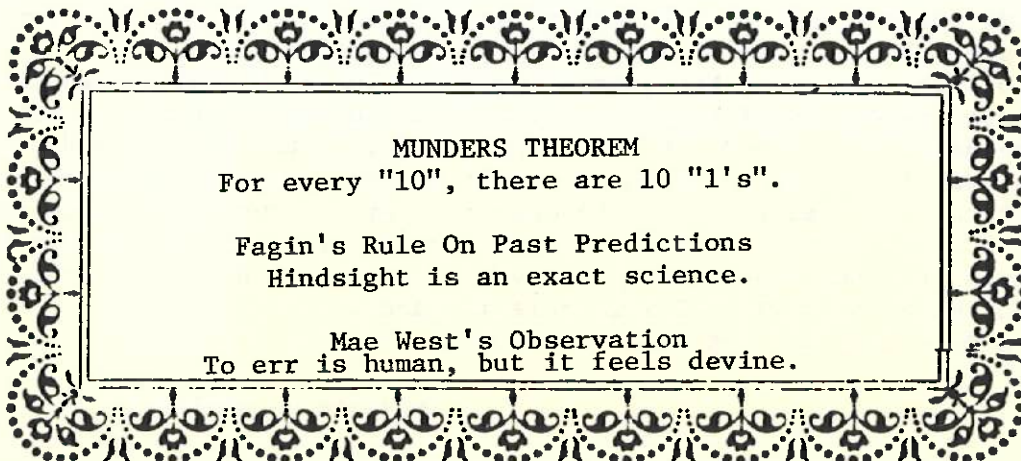
competition is not really not your thing, than enter a case or exhibit that is not in competition. If you don't have a case, than help Dorothy Loyd with some rough or finished gems for the birthstone cases. If that isn't possible, then come down and help out at the show. There is always room for someone to help somewhere. You will have a lot of fun and maybe even meet some really neat people. We work hard, and we also play hard. Support us in any way that you can.

Each of us has received some raffle tickets. Please help Francis and Bernard Bush, by selling these tickets. Send the money back as soon as possible. This will give us operating capitol for the SHOW.

We have enjoyed two fabulous show's in the past. Make a determined effort to make this SHOW the very best ever.

We had a very fine year, in 1984. We have reached out to the far reaches of the Midwest, to help educate in the art of FACETING. We had demonstrating booths at 14 show's last year. We meet a lot of new people, saw a number of new areas of lapidary, and generally had a very good time. I would encourage each of you to join us when we are in your area of the country. Bring your machine and help us demonstrate. We will again this year, be demonstrating at as many show's as possible. It would be extra super if we could have everyone who has a "homemade" machine come to the SHOW in Maumee, and demonstrate your machine. Please call me so I can make sure that there will be a space for you. Mr. Dave Miller will be in charge of the demonstrators. However, he is in Florida, so I will fill in for him until his return.

For starters, we will be in Cincinatti, April 13-14, Flint, Michigan on March 29-30, Chicagoland, May 25-27. We will be at the AFMS in Charleston,



W.Va, and also at the MWF, in Souix Falls . Come and join us. Volunteer for one of these shows. We will keep you posted as to future show where we will be demonstrating. We will be very pleased to have you on the "TEAM."

William J. Horton

TID-BIT

This TID-BIT may never happen to you. Hopefully, just by reading this, will help to eliminate the problem for you. It happened to me, so I will share my experience with you, even though it may make me look a little stupid. (Remember, all who make no mistakes, are the people who do nothing.)

I had just finished one of the competitive gemstones for the SHOW. I had removed it from the dop, cleaned it up, and was admiring my work. I was feeling so proud, and feeling a little sorry for all of the other entries, who were sure to lose, since this gemstone was so perfect. Then I discovered a little problem. I had damaged three of the mitred edges on the pavilion. I had a bad feeling! How in the world had I done such a thing? Obviously, I had put too much effort on the gem in the transfer stage. I had finished the pavilion first. After the transfer, then I finished the crown. Regardless of my mistake, I now was faced with correcting the problem.

First, let's understand how I got into the problem. I must have used too much effort pushing the finished pavilion into the transfer dop. I also did not allow enough of the glue to remain between the finished pavilion and the transfer dop. I'm sure none of you will do this! Another fact is that when you cut small gems with very sharp corner facets, it is easier to damage these. An example of this would be a triangle cut. You end up with 120° corners. These are very easy to damage.

I believe that if you do not allow enough of the glue to remain between the gem and the dop, it will "rub" away on the mitred edges as you work on the other end.

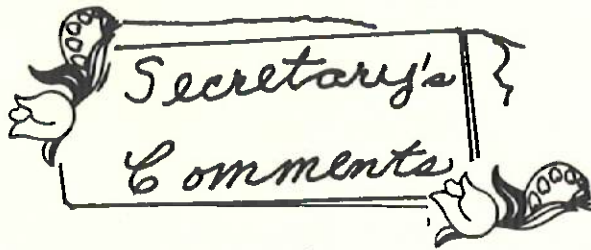
Now that we understand what caused the problem, now how are we to do the correcting? There is no way in the world that you can ever get the gem back on the dop in the exact same orientation. Go back to the transfer block. Use a dop that is big enough to almost cover the crown. (The crown is not damaged) Remember to allow lots of glue between the dop and the finished crown. Use a dop that will almost cover the damaged pavilion also, at this time. Complete the dopping process. When the glue is cured and you are ready to go to work, install the dop and gem back into the hand piece. Spray a big "puddle" of diamond and expander onto your finish lap, in one spot only. I use ceramic and 100,000 grit diamond. Very carefully, at the angle that each of the injured facets was finished, just touch the lap at the edge of the "puddle" of diamond and expander. Cheat left or right, up or down until the facet will touch the lap at the edge of the "puddle" and have the entire surface covered with the expander and diamond. Record the height, angle, and cheater position for each of the injured facets. Now we are ready for the corrections.

Wipe off the excess of the diamond/expander in the "puddle." Hand lap each of the injured facets until they are again beautiful and correct. I don't even turn on the machine. I hand lap each facet, rotating the lap by hand, and staying in one place on the lap so the facet will be wiped in the same position. It will not take very much lapping to make the corrections. The mitre edges really don't chip, as much as they just take on a "polished" look in one spot.

I'm sure that this won't happen to you, but if "MURPHY'S LAW" ever catches up with you, maybe this TID-BIT will come in handy.

Have a good day, and cut a good gemstone.

William J. Horton



The Board Meeting of the Midwest Faceters Guild was called to order by President, William Horton, on January 26, 1985, in the auditorium of the Kent Branch of The Toledo Public Library in Toledo, Ohio. Those present were President Horton, Bernard Bush, Elery Holt, Tom Gibbs, Dorothy Loyd, Kathleen Myers and guest, Frances Bush. Ted Engle, Vice-President, was excused due to illness.

Tom Gibbs made a motion, "The minutes be approved as published in 'The Midwest Faceter.'" Dorothy Loyd seconded the motion and it carried.

Treasurer, Elery Holt reported a balance of \$6,458.15. Receipts were \$2,028.82, expenses were \$545.92, leaving a new balance of \$7,941.05. A motion, "To accept the Treasurer's report as read", was made by Tom Gibbs and seconded by Bernard Bush and carried.

OLD BUSINESS:

The Show Pack will soon be mailed to all members, past and present and all Clubs in the area. A new directory is being compiled and should be ready for mailing in February.

The next meeting of the Guild will be in Frankenmuth, Michigan on April 20th. The Board will meet at the home of the Ed Myers'. Details will be in the bulletin.

A request was made to recruit a new Librarian and new Editor.

Twenty Raffle tickets will be mailed to each member. Ed Myers will take pictures of Ralph Whitney's Aqua Marine Pendant and Dave Miller's faceted Blue Topaz Heart, to be included with the raffle tickets to be used for sales promotion. A prize will be awarded to the three top salesmen of Raffle tickets, instead of the salesman selling the winning tickets.

NEW BUSINESS:

Hiring a professional promoter for the "Faceters Fair" was suggested if it seemed financially feasible. Bernie Bush will try to get local information.

Due to the expense involved, it was decided to have only 200 pictures printed to be used for raffle advertisement.

Eleven Dealers have been signed and paid, with two verbal contacts outstanding. The Guild is in need of five demo dealers for the Show.

It was decided that the Chairmen of each phase of the Show keep accurate records of things they did, what was successful and unsuccessful and include a complete list of names, addresses and telephone numbers of those involved to be passed on to the Show Committee for the following year.

Elery Holt will again try to get the Club Room at the Recreation Center for programs scheduled.

Dave Miller needs a projector and screen for the Show. Harold Rice will be asked for the use of the projector. Two microphones are needed, one for the auditorium and one for the lectures. Tom Gibbs will supply an electron PA with a speaker. Kathy will bring her system if necessary.

Kathleen Myers suggested we find the promoter of the Bowling Tournament that is to be held in Toledo at the time of the Faceters Fair to ask them to include the flyers in their promotional literature.

Dave Miller is Chairman for the demonstrations at the Faceters Fair. A request for demonstrators will be placed in the bulletin. Would like all types of machinery represented.

Arrangements are being made for the booths at Cincinnati, Sioux Falls and Charleston.

Kathleen Myers reported the Award Medals for the Show are on order. She suggested every Member of the Guild be asked to push the Faceters Fair at their local Club meetings and ask their Editors to include it in their bulletins. An all out drive for promotion must be made to increase attendance, ticket sales and the raffle sales to pay for the Show.

Meeting adjourned through a motion made by Dorothy Loyd and seconded by Tom Gibbs.

Submitted by Secretary,
Bernard Bush.

The January 26, 1985 meeting of the Midwest Faceters Guild was called to order by President, William Horton, at the Kent Branch Library in Toledo, Ohio at 1:30 PM.

The minutes were approved through a motion made by Gordon Wiltse and seconded by Bill Bowles.

Treasurer, Elery Holt, reported a balance of \$6,458.15. Receipts were \$2,028.82, expenses were \$545.92, leaving a new balance of \$7,941.05. Checking account has a balance of \$2,806.58 and the money certificate is \$5,134.47. Kathleen Myers pointed out that \$61.63 should be a Club expense for the Murray Award and not a Show expense. Gordon Wiltse made a motion, "To accept the Treasurer's report as corrected". The motion was seconded by Ed Myers and carried.

Exhibit Chairwoman, Kathleen Myers reported the dealers are set for the Show. Manufacturers of faceting machines are needed, if you have any information on how to secure them please contact Kathy. The judges are lined up. April First is the deadline for the mail-in-competitive stones, (1 - 3 - or 5). Judging will be done ahead of time so they can be on display at the Show. A receipt will be sent when the stone/stones are received and should be used to claim the stone/stones at the end of the Fair. Special displays from Kent Cales, Arthur Grant, Bill Boyajian, Head of the G.I.A. Displays are needed from every member. Jewelry with faceted stones, faceted amber, and all faceted stones will be acceptable. Special displays needed. August Luchini, National Trophy Winner, will exhibit his rotating faceted stone display. Cleveland Museum will exhibit Antique Amethyst Jewelry. All Member that have been winners will be asked to either bring their winning displays or their trophy (if they wish to display the stones elsewhere in the Show). Dorothy Loyd will have her fabulous Birthstone Display and displays from the Membership. A judging booth will be set-up for those that are non-competitive but would like their stones evaluated. The following list of dates to remember for future enjoyment are:

March 29-31 - Flint Show. Will have

a single stone competition.

April 13 - 14 - Cincinnati Show. Help needed for the booth to be maintained by the Guild.

April 20 - Next meeting of the Faceters Guild to be held in Frankenmuth. Dave Miller will have a special new program. Along with a "panel for Problems" offering helpful hints and suggestions to obliterate your problems.

May 11 - 12 FACETERS FAIR, Maumee, Ohio. Set-up on Friday morning. Fantastic programs are selected for both days. Bill Boyajian of the G.I. A. on Saturday only. Glenn and Martha Vargas on both days, Dave Miller, Mastercraftsman, and Kent Cales, on Flow Finish versus scratch and Arthur Grant cutting famous large stone replicas.

April 26-27 - Mt. Clemens, presenting "Minerals of Michigan", programs, speakers, and demonstrations.

May 17 -18- 19 - Dearborn - Sphere making, faceting, silversmithing, micromounting, wirewrapping, slate carving and beadmaking demonstrations along with displays and dealers.

June 15 - Guild Meeting - Shelby, Michigan CZ Factory.

June 20 through 23 - American Federation - Charleston, West Virginia.

June 29 -30 - MGAGS Seminar at Livonia, Michigan. Featuring all day classes.

July 18 through 21 - Sioux Falls, South Dakota - Midwest Federation Show.

August 10 - Guild Meeting. Dearborn area. Time and place to be announced.

President Horton introduced our Canadian Members. They are organizing their own local club.

Larry Murray was welcomed back after his illness by both the President and his many friends that were ever so pleased to have him with us again.

Dorothy Loyd is in need of Birthstones for her display, both rough and faceted materials. Zircons and Alexandrite are the hardest to find and very much needed.

Membership Secretary, Bill Gardiner was half-way between Texas and the Tucson Show so no report was available. Everyone that was an active member (dues being paid) will be listed in the new directory that will be mailed in February. Fifty-cents per person is paid to the Midwest Federation for dues. We have approximately 400 members.

A Show Pack will be mailed to every

(next page please)

 SECRETARY'S COMMENTS (cont'd)

Member of the Club, to each Club and Faceter in the area and will contain complete information on the Show, Programs, lodging, camping, etc.

The Midwest Faceter Guild is in need of a good Editor. If you feel you qualify and are able to put out five bulletins a year please contact President Bill Horton. We are also in need of a Librarian to replace Helen Murray. More help is needed from the Membership as we are the largest active Club in the United States.

Kathleen Myers asked each member to return to their local gem and lapidary societies and promote the Faceters Fair as much as and in any way possible as we will require a very large increase in both the raffle tickets sales and the number of persons attending the Show. A picture of Dave Miller's Topaz Heart and Ralph Whitney's Aqua Marine will be enclosed with the raffle tickets to help promote sales. Also needed are many raffle prizes, ticket sales and more ticket sales. And the much needed commitments for displaying. Please send in your applications now if not sooner. Demo Dealers are also needed. If you have any suggestions please contact Kathy. Show Flyers will be ready Monday.

Today's meeting will consist of a Program by the Faceteers of Toledo and an Auction of Larry Murray's collection of faceting material.

NO OLD BUSINESS:

NEW BUSINESS: The vastness of the Tuscon Show and their seminars were discussed for the benefit of those wishing they could attend and those that are going.

Joe Tisdall of Dayton, Ohio will have a multi-colored bracelet containing 46 faceted tourmalines on display at the Faceters Fair.

President Horton expressed the joy, vastness and quality of the National Shows and recommended them to all the members.

Joan Connor mentioned a couple from Redford wanted to know the format and purpose of the Guild and suggested we have a pamphlet containing the history and purpose of the Guild to pass out to prospective members. President Horton explained we are a Non-Profit Organization and devoted to the promotion and education of the art of faceting to all areas. Bill requested Joan write the information to be published for such a purpose.

President Horton reminded members that articles, ideas or hints are much needed for the Midwest Faceter.

Bon Duritsky reported that \$13,088 has been raised or contributed to the Geology Scholarship established by the Toledo Gem & Rockhound Club in less than a year. The Scholarship will provide three undergraduate students with scholarship grants at the University of Toledo.

A motion, "To adjourn" was made by Gary Kocher and seconded by Bon Duritsky.

The program presented by the Toledo Faceteers included a pannel discussion and exhibit on "What's Your Angle", "How do you light Up" and "Problems and Personal Criteria". This was a substitute, on a very short notice due to the cancellation of our scheduled speaker. Good job, Faceteers, on such short-notice.

Respectfully submitted,
Bernard Bush, Secretary.



Dodging work is the hardest work of all and pays the lowest dividends.

from the Mountain Gem, via The Rocky Reader.

THE MOST PRECIOUS GEMS YOU CAN FIND ARE THE FRIENDS YOU MAKE ALONG THE WAY.

from the Lapidary Journal, via THE CONGLOMERATE

Think Spring!

OUR SHOW'S BIRTHSTONE CASES NEED

GEMS IN MATRIX--ROUGH--CABS/FACETED STONES--JEWELRY

GARNETS (all colors)

AMETHYST (all shades)

AQUAMARINE/Bloodstone

DIAMOND/colorless gems

EMERALD (all shades)

ALEXANDRITE/Moonstone

RUBY (all shades)

PERIDOT/Sardonyx

SAPPHIRE (all colors)

TOURMALINE (all colors)

OPALS (all colors)

TOPAZ & CITRINE (all colors)

ZIRCON (all colors)

Turquoise (all types)

ANY OF THE ABOVE ITEMS ARE VITALLY NEED TO PUT ON THE BIRTHSTONE CASES

AS IN OUR LAST SHOW - WE WILL GIVE YOU A CLAIM TAG FOR EACH ITEM

LET ME KNOW WHAT YOU CAN BRING TO THE NEXT MEETING?? SEND OR DELIVER??

DOROTHY LOYD
28400 HUGHES
ST. CLAIR SHORES
MICHIGAN 48081
(313) 778 7271

Fill this in & SEND TO ME
Do Now!/- SOON PLEASE



EDUCATIONAL MEETING
MIDWEST FACETER GUILD
APRIL 20, 1985
FRANKENMUTH, MICHIGAN



JOIN US

- 9:30 A.M. Board will meet. At the home of Ed & Kathleen Myers
11630 S. Gera Road. Birch Run, Michigan. (517) 624 9178
- 11:30 A.M. Break for Lunch
On your own- lots of neat lunch stops in Frankenmuth!

- 12:30 P.M. Meeting Room Open-
Heidelberg Room, Bavarian Inn, Frankenmuth, Michigan
see the enclosed brochure map for directions.

1:00 P.M. OFFICIAL MEETING

1:30 P.M. EDUCATIONAL PROGRAM

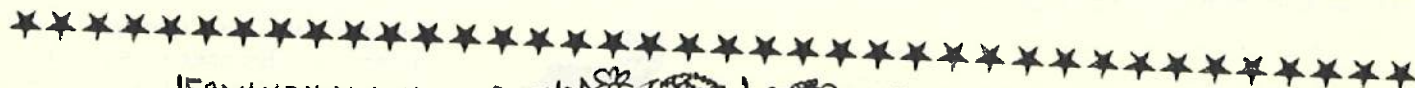
DESIGN & FACET by DAVID B. MILLER

Dave will be giving the premiere showing of his new program based on his new book DESIGN & FACET. This program will teach you how to design your own patterns for cutting unusual gemstones.

3:00 P.M. COFFEE BREAK

3:30 P.M. FACETERS FAIR UPDATE

4:30 P.M. MEETING ENDS



FRANKENMUTH

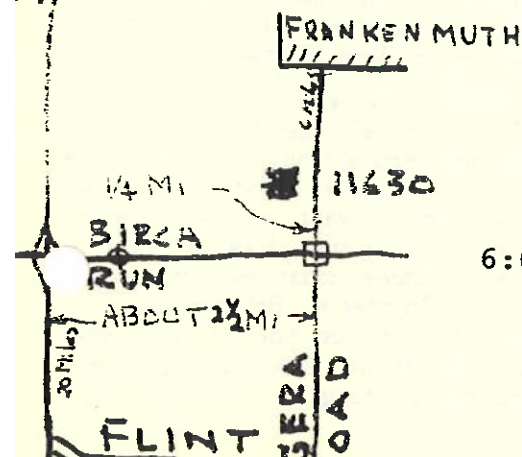


6:00 til ??? OPEN HOUSE AT ED & KATHLEEN MYERS

You are invited to stop by and visit with faceting friends--BRING MUSICAL INSTRUMENTS.

PLEASE COME!!!

I-75 N



FRANKENMUTH, MICHIGAN is a very popular tourist attraction in the Midwest. You may want to spend the entire weekend!

Enclosed is a brochure and information about a special event scheduled in town for the weekend.

GOEBEL M.I. HUMMEL DAYS SCHEDULE

April 18-20, 1985

at BRONNER'S CHRISTMAS WONDERLAND

FACSIMILE FACTORY HOURS

Watch Goebel craftsmen create authentic M.I. Hummel figurines

April 18 & 19 - 10-11:30, 2-4, 6:30-8

April 20 - 10-11:30 & 2-4

M.I. HUMMEL MOVIE IN PROGRAM CENTER

April 18 & 19 - 10:00, 12:00, 3:00 & 8:00

April 20 - 10:00, 12:00 & 3:00

ARTIST SIGNING AT CHECK-OUT

Artists will sign Goebel figurines purchased at Bronner's on April 18-20 for 30 minutes following each factory session at check-out.

AUTOGRAPHS

Robert Miller will autograph any of his books purchased at Bronner's on April 18-20. Autographing daily between 10-11:30 and 2-4, and on evenings of April 18 & 19 between 6:30-8.

REGISTER TO WIN 10 GOEBEL PRIZES

Prizes will be mailed to winners (must be 18 or over or a member of the Goebel Collector's Club and register in person at Bronner's).

WORLD OF BRONNER'S

10-PROJECTOR, 18-MINUTE
MULTI-IMAGE PRESENTATION

Experience a delight of sight and sounds highlighting the design and production of Bronner's world-wide selection of over 30,000 trims and gifts. Shown in Bronner's Program Center.

April 18 & 19 - 11:00, 2:00, 4:00 & 7:00

April 20 - 11:00, 2:00 & 4:00



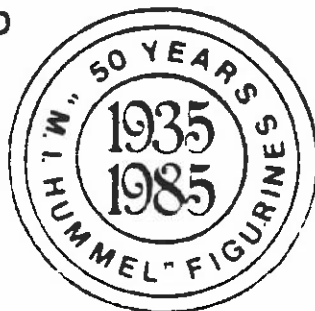
BRONNER'S HOURS

April 18 & 19 - 9-9:45

April 20 - 9-5:30

Program 11:00-11:45

In Michigan call TOLL FREE
1-800-445-1847



"JUBILEE"

50th Anniversary Figurine

The world-famous Goebel Facsimile Factory will be on display at BRONNER'S CHRISTMAS WONDERLAND in Frankenmuth, Mich., April 18-20. Visitors to Bronner's will have the rare opportunity to see how M.I. Hummel figurines are made during the second annual limited visit of this exhibit in the United States.

Watch Goebel craftsmen create authentic M. I. Hummel figurines. Three trained artisans direct from the Goebel factory in West Germany will mold, assemble, and paint the figurines before your very eyes.

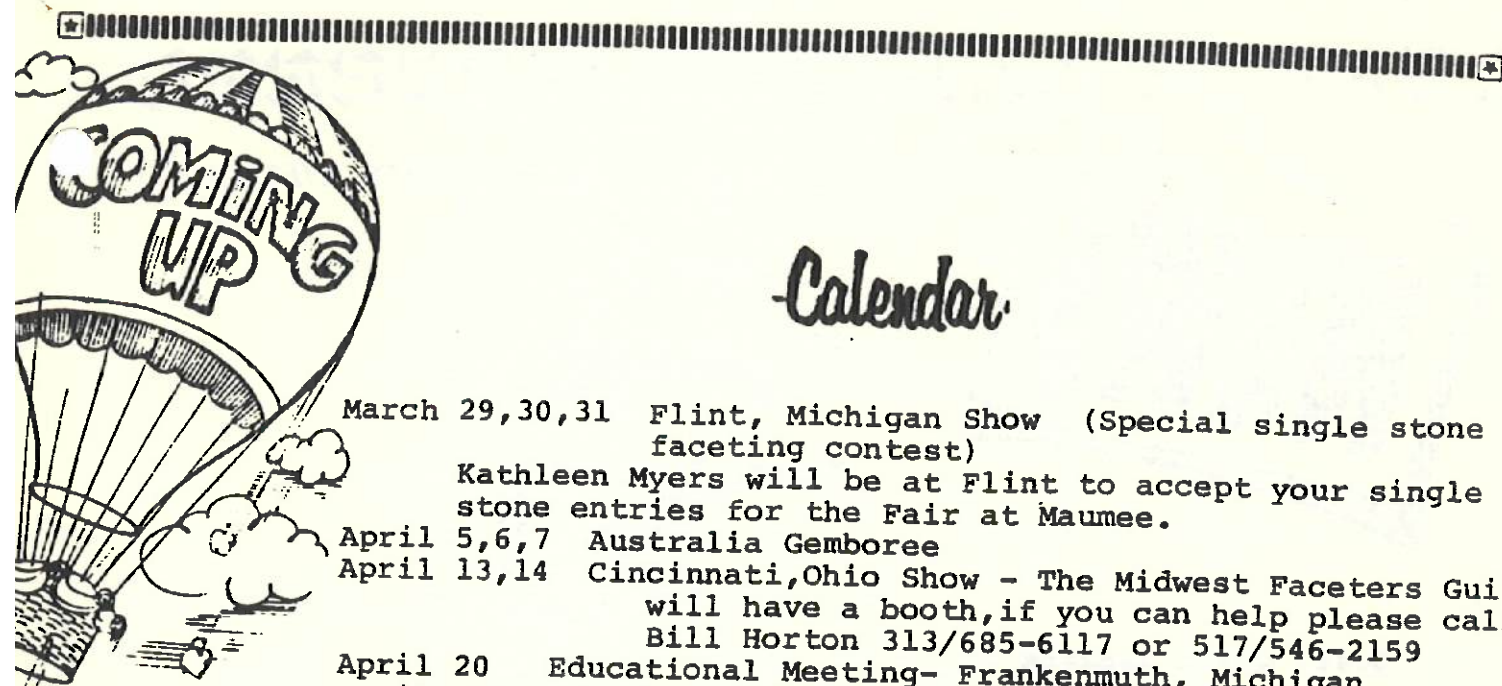
Artists will sign Goebel collectibles purchased at Bronner's on April 18-20 for 30 minutes following each factory session noted above.

1985 is the 50th anniversary of the production of M.I. Hummel figurines. In honor of the golden anniversary, Goebel is producing a special figurine named "Jubilee". This figurine will not be produced beyond 1985.

Viewers of the Goebel Facsimile factory at Bronner's will captivate the feeling of an actual visit to the factory in West Germany.

Visitors may also view Bronner's M. I. Hummel collection of over 400 figurines and a mold exhibit showing the 16 Hummel production steps. And, they'll want to be sure to register for the drawing for 10 Goebel prizes (must register in person at Bronner's). Bronner's will be open from 9-9 on April 18 & 19, and from 9:53:0 on April 20. All events are free of charge.





Calendar

- March 29,30,31 Flint, Michigan Show (Special single stone faceting contest)
Kathleen Myers will be at Flint to accept your single stone entries for the Fair at Maumee.
- April 5,6,7 Australia Gembooree
- April 13,14 Cincinnati, Ohio Show - The Midwest Faceters Guild will have a booth, if you can help please call Bill Horton 313/685-6117 or 517/546-2159
- April 20 Educational Meeting- Frankenmuth, Michigan
- April 27,28 Mt. Clemens, Michigan Show
- May 11,12 The Third MIDWEST FACETERS FAIR, Maumee, Ohio
- May 17,18,19 Dearborn, Michigan Show
- May 25,26 Chicagoland Show Illinois (The Midwest Faceters Guild will have a booth can you help? contact "Arizona" Rice.
- June 15 Educational Meeting CZ Factory Shelby, Michigan
- June 20-23 American Federation Show Charlston, West Virginia (The Midwest Faceters will have a booth can you help?)
- June 29,30 M.G.A.G.S. Educational Seminar Schoolcraft College, Lavonia, Michigan
- July 18-21 Midwest Federation Show- Sioux Falls , South Dakota (The Midwest Faceters Guild will have a booth can you help?) contact Bill Horton
- August Educational Meeting Dearborn, Michigan
- August 10



" HONOR MOM "

Show off for your Mother on Mother's Day!! Bring her to the Faceter's Fair and let her enjoy the beautiful displays and interesting programs.

Beginning at 12 Noon and each hour throughout the afternoon there will be a special "Honor Mom" drawing. A beautiful CZ Heart will be given away to a lucky Mother in attendance. Be sure your Mother is included in this special event and has the opportunity to see your guild in action-- she will be so PROUD of you!!!



MIDWEST FACETER



BEAUTIFUL GREEN VESTS AVAILABLE !

Cost: Vests \$13.52
 Embroidery 6.03
 Total \$ 19.55

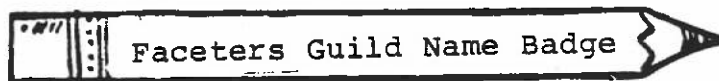
Sizes: X-small (30-32)
 Small (34-36)
 Medium (38-40)
 Large (42-44)
 X Large (46-48)

Cost: Quilt Jackets

Jacket \$27.56
 Embroidery 6.03
 Front Name & Tax
 Total \$36.00

Sizes: Small (34-36)
 Medium (38-40)
 Large (42-44)
 X-Lg. (46-48)

If members wish to sew their own vests they can be embroidered for \$6.03. Or a patch of the same emblem is \$6.03. Orders will be taken care of by Kathleen Myers, 11630 S. Gera Rd., Birch Run, Mi. 48415. (517) 624 9178)



**THIS
IS A
MUST**

Send \$5.75 and your name plate will be shipped directly to you.

A Frame Awards
 414 S. Dort Hwy.
 Flint, Mi. 48503



Please print nameplate as follows:
 First Name _____

Last Name _____

City _____

State _____

THE MIDWEST FACETER

From the Books of
Glenn & Martha Vargas

Data compiled By Bill Bowles

Comparative hardnesses of polishing laps
(Popular)

MATERIAL	Hardness	Components
Ceramic	9.0	Corundum Ceramic
Ceramic	8.5	Zirconia (new)
Copper	3.0	Rolled Copper Bronze
Zinc	2.5	Pure Zinc
Phenolic (Paper base)	2.2	Phenol Formaldehyde Plastic Resin
Lucite (Plexiglass, etc.)	2.0	Acrylic Plastic
Type Metal	2.0	Lead, Tin, Antimony, Copper
Tin / Lead	2.0	Lead, Tin, Equal amounts
Pewter	2.0	Lead, Tin, others var.
Tin / type metal	1.8	Tin and Type Metal Var.
Tin	1.7	Pure Tin
Lead	1.5	Pure Lead
Vinyl	1.0	Plastic (thermoplastic)

Polishing Agents in order of Popularity

AGENT	Micrograde	Remarks
Alumina A	.3	Good polish (70,000 mesh)
Alumina B	.04	Superior for faceting
Cerium Oxide	1.5	Used for Beryl group
Tin Oxide	1.2	Alternate for Beryl, Garnet,
Diamond	.25	Peridot and Quartz
	50,000, 14,000	Corundum, Chrysoberyl and other hard
Rouge		gems, scratch finish,
Chrome Oxide		Stains hands red
Zirconium Oxide		Stains hands green
Tripoli (Silicon Dioxide)		Nearly identical to Cerium Oxide
Barroisite (Brown Powder		Mild cutting grit on soft laps.
Rare Earth oxides)		
Ultralaps or Ge mlap		Excellent for Quartz, Opal, Glass
		Alumina 0.3 - Cerium Oxide - Tin Oxide

1 Micron = 1/1000 of a millimeter (or) approximately 1/25,000 of an inch .00025

THE MIDWEST FACTER

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Glenn & Martha Vargas

Data compiled by Bill Bowles

MHOS	MATERIAL	C E R A M I C	T Y P E M E T A L	L U C I T E	T I N L E A D	T I N	D I A M O N D	T R I P O L I	A L U M I N A	C E R I U M O X I D E	T I N O X I D E
9	Corundum Natural or Synthetic	X	X				X	X			
8½	Chrysoberyl Natural or synthetic	X			X	X	X		X		
8½	Yttrium Aluminum Garnet YAG (syn)	X			X	X	X		X		
8¼ - 8½	Zirconia (syn)	x			X		X		X		
8	Topaz (Nat.)		X		X	X			X		
8	Spinel (Natural or synthetic			X	X				X		
7½ - 8	Beryl (Nat.)			X	X				X	X	X
7½ - 8	Euclase				X	X			X		X
7¼	Garnet		X		X	X			X		X
7 - 7½	Iolite				X				X		
7½	Tourmaline		X		X				X		
7½	Zircon		X		X	X			X		

THE MIDWEST FACTER

From the Books of
Glenn & Martha Vargas (Cont.)

Data compiled by Bill Bowles

MHOS	MATERIAL	C E R A M I C	T Y P E M E T A L	L U C I T E	T I N L E A D	T I N	D I A M O N D	T R I P O L I	A L U M I N A	C E R I U M O X I D E	T I N O X I D E
7½	Andalusite				X	X			X		X
7	Quartz			X						X	
6½ - 7	Peridot				X X	X X			X X		X
6½ - 7	Spodumene				X	X			X		X
6½	Gadolinium Galium Garnet				X				X		
5	Apatite		(Wax) Phenolic	(Pitch) X			8000		X		X

OUR THANKS to Mr. William Bowles for finding this information and taking the time to record it for our use.

We would appreciate any information of this nature from any of you out there who receive these bulletins. Just write them up and send them to Kathleen Myers or myself. (Bill Horton.)



the Gabriel Regent

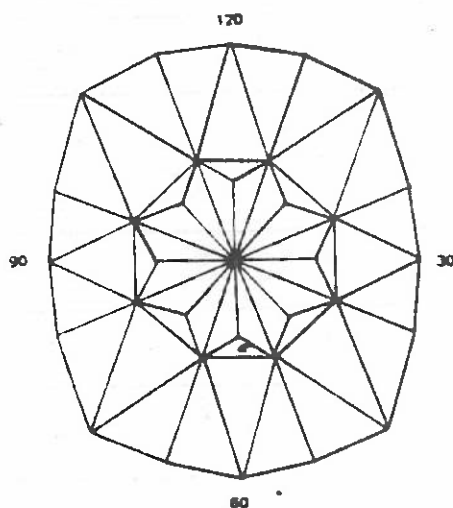
by Merle A. Reinikka

Here is an antique-cushion-type cut with horizontal split mains and vertical split culet, having a total of 113 facets. It is a tricky cut in that numerous of the facet-pairs are only half a degree different from adjoining facets. For this reason, cutting and polishing call for a high degree of accuracy throughout all phases of the operation.

The design is named for Tom and Samona Gabriel, who generously contributed the large piece of smoky quartz from which the prototype was made.

Angles given are for quartz, using a 120-tooth index gear. Minimum recommended size is 17 x 20 mm.

Pavilion



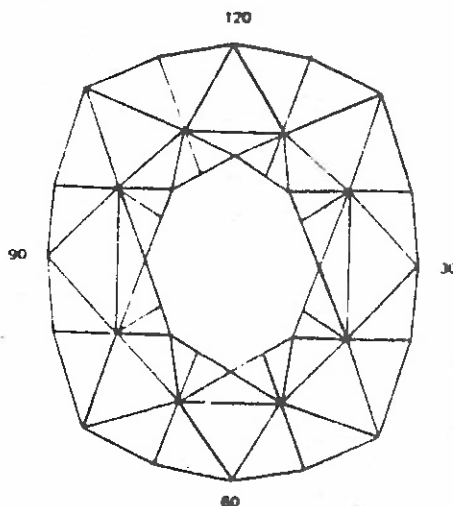
Preform girdle at 116-4-56-64, 29-31-89-91,
10-110-52-68, 22-38-82-98.

PAVILION

Step	Angle	Index
1	44°	116-4-56-64
2	43.5°	52-68-10-110
3	43.5°	22-38-82-98
4	44.5°	29-31-89-91
5	49°	120-60
6	45.5°	30-90
7	50°	16-44-76-104
8	54°	120-60
9	70°	30-90
10	55°	16-44-76-104
11	63°	116-4-56-64
12	71°	29-31-89-91
13	65°	52-68-10-110
14	67°	22-38-82-98

Polishing Order: Polish in same order as cutting.

Crown



CROWN

Step	Angle	Index
1	41.5°	120-60
2	45.5°	30-90
3	40°	16-44-76-104
4	49°	22-38-82-98
5	48.5°	29-31-89-91
6	47.5°	116-4-56-64
7	47°	10-110-52-68
8	39.5°	120-60
9	42°	30-90
10	37°	16-44-76-104
11	30.5°	116-4-56-64
12	36°	29-31-89-91
13	29.5°	10-110-52-68
14	28.5°	22-38-82-98
15	0°	Table -- use any setting

" INFORMAL JUDGING "

During the regular hours of the Fair at Maumee several of our excellent judges have agreed to hold "informal judging" of your gemstones. Critiquing of your gemstones by experts will give you a good start on "self-improvement" and that is what faceting is all about, cutting the very best gemstone we possibly can.

Bring along one or two stones and take advantage of the expertise of others. You might also want to bring a stone that has given you problems and ask for some help.

This is a great opportunity be sure to take advantage of it!



SAD NEWS FOR SAPPHIRE OWNERS

We are very sorry to report the "The Fractured Facet" news has discontinued publishing due to postal rate increases. Sam Kautz is to be commended for having done a great service to the owners of the old Sapphire machines. We understand that Sam will still attempt to bring information to individuals if they contact him with a problem. We hope he will continue to write articles for publication in The Midwest Faceter. Sorry such a good thing had to end Sam.

HELP! HELP!

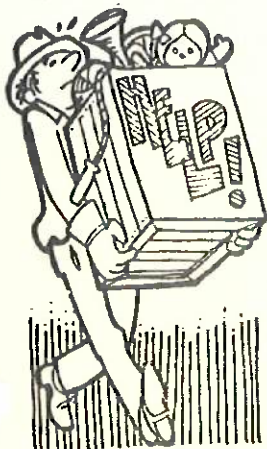
EVERYBODY

Plan now to be a real part of the Third Midwest Faceters Fair, May 11 & 12, 1985 at Maumee, Ohio. Your help is needed!!!!

You can help in any number of ways: sell raffle tickets attend the Fair, bring guests (especially your Mother), encourage your friends to attend, bring an exhibit, take tickets at the door, join the set-up or take down crew, enter competitively, plan to be a demonstrator, purchase something from our dealers, attend the great programs, make all our guests feel welcome, help with security-- the list goes on and on.

When you arrive each day at the Fair check with the registration desk to sign up for specific hours to work.

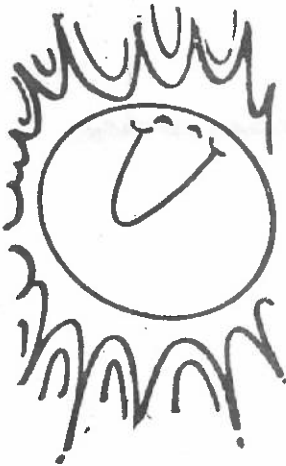
We need you and your help, everyone helping can make this our GREATEST FAIR yet !!



CALL TODAY!
Dot Loyd 313/778-7271 ♡♡♡♡

BIRTHDAY GEMSTONE EXHIBIT

Our very special and lovely birthstone exhibit is planned and ready for your help. Dorothy Loyd and her committee are looking for your cooperation by lending your rough, finished gems or jewelry for the weekend of the Fair. Please take a few minutes to jot her a note or give her a phone call so she knows to plan on your help. This is an outstanding club project and one you can be very proud to be a part of. PLEASE CALL TODAY !!



Midwest Faceters Guild
President Bill Horton
setting a good example
for all members is busy
getting his entries
ready for The Fair,
May 11 & 12.

10,000 Attaboys Bill !!



CALL Kathleen Myers TODAY,

Say YES - I will DISPLAY !!

517/624-9178 or 313/686-9871

Little Things

Most of us
miss out
on life's
big prizes.
The Pulitzer.
The Nobel.
Oscars.
Tonys.
Emmys.
But we're
all eligible
for life's
small pleasures.
A pat
on the back.
A kiss
behind the ear.
A four-pound bass.
A full moon.
An empty
parking space.
A crackling fire.
A great meal.
A glorious sunset.
Hot soup.
Cold beer.
Don't fret
about
copping life's
grand awards.
Enjoy its
tiny delights.
There are plenty
for all of us.

I Take Pride In My Work

I'm a little
fed up
with the
constant
criticism of
American
workmanship.
How other people
do their jobs
is their business.
But I do
good work
and I know it.
I have
perfected my
skills.
I make each
minute count.
When I make
a mistake
I correct it.
I would gladly
sign my name
to every piece of
work I do.
I'm going to
hang this message
over my work area
to let
my employer,
my customers,
my co-workers
know that
I take pride
in my
work.

BARION TRIANGLE

analysis by

J. W. Carroll

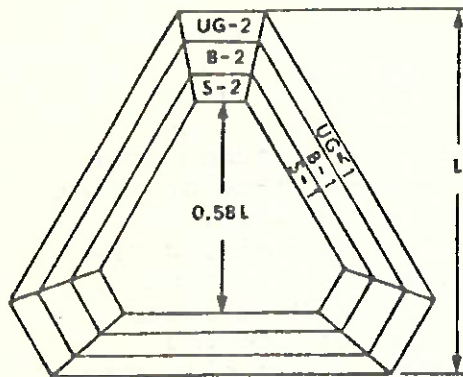


Fig. 1

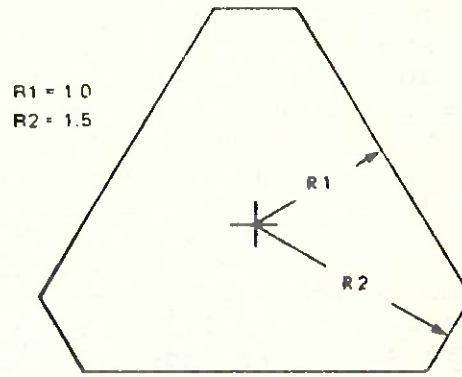


Fig. 4

Index Gear - 96 Teeth

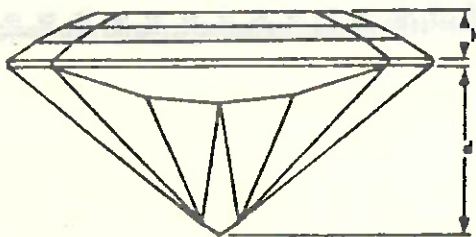


Fig. 2

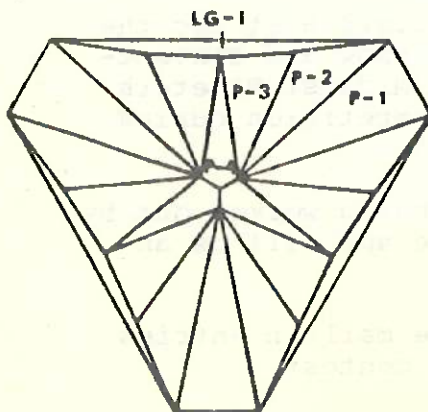


Fig. 3

Facet	Indices	Angles			
		CZ	YAG	Quartz(1)	Quartz(2)
P-1	16, 48, 80	36.68	37.65	36.62	41.00
P-2	3, 29, 35 61, 67, 93	42.27	43.27	44.27	46.66
P-3	1, 31, 33 63, 65, 95	43.35	44.35	45.35	47.77
P-4	0, 32, 64	43.00	44.00	45.00	47.42
LG-1	0, 32, 64	66.65	67.37	68.07	69.70
UG-1	0, 32, 64	41.57	44.67	47.71	47.71
UG-2	16, 48, 80	30.60	33.39	36.24	36.24
B-1	0, 32, 64	36.00	39.00	42.00	42.00
B-2	16, 48, 80	25.84	26.36	30.98	30.98
S-1	0, 32, 64	33.45	36.36	39.31	39.31
S-2	16, 48, 80	23.77	26.14	28.62	28.62

		Vertical Dimensions, % of R1			
		CZ	YAG	Quartz(1)	Quartz(2)
Height	(h)	31.84	35.49	39.46	39.46
Thickness	(t)	2.50	2.50	2.50	2.50
Depth	(d)	107.71	111.55	115.51	125.70

- (1) P-1 is below critical angle for quartz.
 (2) P-1 is above critical angle for quartz.



EXHIBIT TIPS

by Kathleen Myers

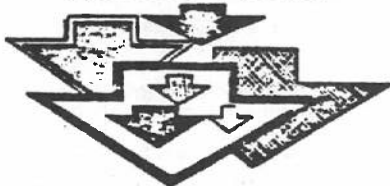
Your labels should contain correct identification and spelling. Be sure labels are clean with no erasures and that the cardboard (or whatever material is used) is heavy enough so they won't curl from the heat. It is probably best to place all labels at one angle. Either have all labels standing or have them all laying flat. Colored paper for labels is acceptable if it matches your case lining fabric harmoniously. Use the same type or print for all labels. White labels are always acceptable.

There is NO excuse for dirty lining, dirty labels, dirty gemstones, salvage ends showing, unpressed lining fabric, thumb tacks showing, dirt, crumbs, etc. To remove loose bits of dirt or lint from your lining just before you close your case, use a bit of scotch tape sticky side down. Also, a soft glove worn when placing gemstones in your case will prevent fingermarks on polished surfaces.

Your work is your pride- show it off BEAUTIFULLY !!!



READ THIS!



The Michiana Gem and Mineral Society Host for the 1986 American and Midwest Federation show and Convention has accepted the proposal of the Midwest Faceters Guild to conduct a Special Faceting Competition during the July 17,18,19,20 show.

Details of the competition are being worked out by the Guild competitive rules committee and will be announced as soon as completed.

Preliminary plans are to include mail-in entries hoping to make this an International contest.

Special Medallians of gold-silver and bronze will be awarded to the First, Second and Third winners and all entries will receive a commemorative ribbon.

Watch for further details in a future issue of The Midwest Faceter.