

THE MIDWEST FACETER



Volume 12 Number 1

12-91

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

THE MIDWEST FACETER
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Birch Run, MI 48415

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HOLIDAY



GREETINGS

MFG Historian
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Detroit MI 48238

MIDWEST FACETERS GUILD

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Show 1992	
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THE MIDWEST FACETER

Co-Editors

William J. Horton
2589 Hughes Road Howell MI 48843 (517) 546-2159
Kathleen Myers
11630 S. Gera Road Birch Run MI 48415 (517) 624-9178

HOORAY --- HOORAY --- HOORAY

10,000 ATTABOYS !!!!!

The competition held in conjunction with our 1991 FACETERS GUILD SHOW was a tremendous success ! There were a total of 60 Gemstones judged, as well as 2 entries for the photography section.

Not only are the entrants to be given ATTABOYS, but the judges are also deserving. The Judges were:

BILL SCHELL - FRANK BEAVENS - BILL McVETY - RICHARD FAIRLESS -
KATHERINE MEYERS - HAZEL MORGAN - JAY NICHOLS - BIRDIE NICHOLS -
JOSEPH SCOTT - TONY WEST - BILL HORTON

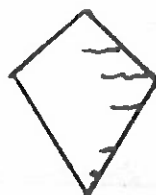
There were twenty six different sections in our contest. There were fourteen sections entered. The winners were;

CLASS 1	BUD ROBERTS, Windsor, Ontario	95.2%	FIRST
CLASS 2	KAREN BLIZARD, Loveland, Ohio	97.6%	FIRST
	BUD ROBERTS Windsor, Ontario	92.35%	SECOND
	MARY BETH THOMPSON, Ft. Mitchell, Ky.	86.3%	THIRD
CLASS 3	KAREN BLIZARD, LOVELAND, OHIO	95.6%	FIRST
	MARY BETH THOMPSON, FT. MITCHELL, KY.	90.3%	SECOND
CLASS 5	CLIFFORD J. CHAPMAN, MIDLAND, TEXAS	86.75%	FIRST
CLASS 8	CLIFFORD J. CHAPMAN, MIDLAND, TEXAS	97.0%	FIRST
	JOSEPH SCOTT, WINAMAC, INDIANA	90.25%	SECOND
CLASS 9	BILL McVETY, FLINT, MICHIGAN		FIRST
	JOSEPH SCOTT, WINAMAC, INDIANA		SECOND
CLASS 10	JAY & BIRDIE NICHOLS, ORANGEVILLE, OH.	93.53%	FIRST
	JOSEPH SCOTT, WINAMAC, INDIANA	91.92%	SECOND
CLASS 15	ALAN RIEGLEMEN SR., MESA, ARIZONA	99.0%	FIRST
	JOSEPH SCOTT, WINAMAC, INDIANA	98.5%	SECOND
	JERRY L. CAPPS, MAZOMANIE, WISCONSIN	96.0%	THIRD
CLASS 16	RICHARD FAIRLESS, EAST TAWAS, MICHIGAN	99.9%	FIRST
	JOSEPH SCOTT, WINAMAC, INDIANA	97.2%	SECOND
	DON DUNN, DAYTON, OHIO	96.4%	THIRD
CLASS 18	RICHARD FAIRLESS, EAST TAWAS, MICHIGAN	99.15%	FIRST
CLASS 19	ELERY HOLT, SYLVANIA, OHIO	99.0%	FIRST
CLASS 23	FRANK BEAVEN, DAVISON, MICHIGAN	99.9%	FIRST
CLASS 26	FLINT ROCK AND GEM CLUB, ELINT, MI.		FIRST

CUTTING TID-BIT

William J. Horton

While working on a piece of cubic zirconia, I started having troubles with the final polish. This was a fairly large gem, so the facets were rather large. The scratches were on one edge of the facet, as in the figure.

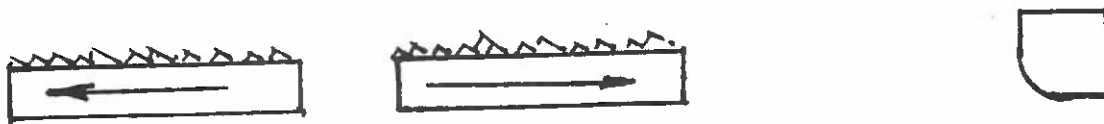


After trying to "WIPE" out the scratches without much success, I tried to "RING" the facet on one place on the lap. This also did not have much success. The term "RING" merely means to use one spot on the lap, without moving. Our usual method is called "SWEEPING." After thinking about these scratches for awhile, I finally realized what was causing them. The mitred line of the facet was so sharp that it caused the edge to peel, for lack of a better word. In this peeling action, the material, which was rather minute, was tumbling across the facet, between the gemstone and the lap. This was causing the little scratches. I reversed the direction of the lap, and lo and behold, the scratches - . The reversal of the lap was just enough to finish the polish of that facet. If you think about it, the area that was peeling, was now at the end of the facet, rather than on the beginning. The minute particals were now going away with the swarf.

The same problem presented itself in polishing the table facet. This time the reversal worked, but I had scratches in other areas. This brought me to another trial and error. This time I was able to get a good polish without the scratches by using a kleenex as a mop. I would continue to sweep the facet on the lap but with my other hand, I would wipe the lap with the kleenex. This apparently picked up the tiny particles as well as the excess of diamond, as the table came out as beautiful as you could wish. The plus was a beautiful polish. The minus was using up diamond compound. I am

not against the usage of the diamond, if I get the desired results.

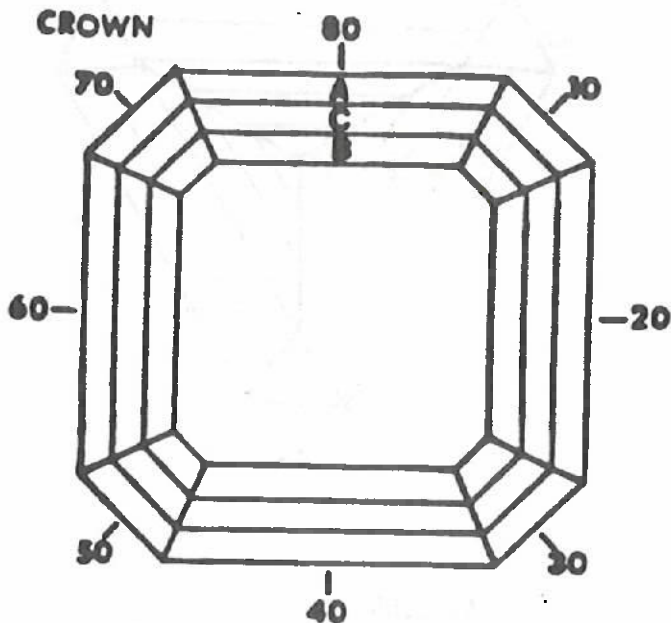
I began thinking of the lap reversal operation. I could actually feel the lap pull as I reversed the operation, and could see it was cutting faster. This I have repeated time and again. I now make this a standard procedure for large facets. I have a theory. I believe the diamond lodges into the lap and polishes the facet as the lap rotates. I believe the diamond not only lodges directionally, but wears directionally. When the lap is reversed, you are actually getting the results of a better cutting edge.



I am using the FAST LAP, from Ray Tech. It appears to be a Resin bonded Zinc. The porosity of this lap lends to perfect use with diamond spray. It is a very forgiving lap. I have polished Citrine with 100,000 diamond and make it look like Sapphire. The diamond spray does not stay as long on this lap as it does on a Ceramic lap, so requires frequent loading. But, the results are far worth the extra diamond usage. I have always used a "SLAVE" piece of corundum for use as a roller to apply the diamond to the lap. I keep the slave in a small box with the diamond. I use a different slave stone for each grit of diamond, so as not to spread contamination to the different laps. You could dop up the slave stone should you desire. I don't because it could pick up some contamination, I think the box is better. Make the slave stone a cube, big enough to hold between your fingers. Round one edge of the cube, and semi-polish the area to be used. When you are rolling in the diamond, gently rock the slave stone back and forth from the center of the lap outward to the edge. I usually roll the diamond from center outward and back two or three times. It is better at this time to finish at the outer edge and wipe off the excess. When you feel the lap is dry or you see the little remnants of grey in you kleenex, it's time to reload the lap.

You may wish to "SCORE" your lap. It works better. This can be accomplished by using the rough edge of your slave stone. This scoring is like a spiral from the center outward to the edge. It only takes one score process for the life of that layer of the lap.

BARION



Index - 80

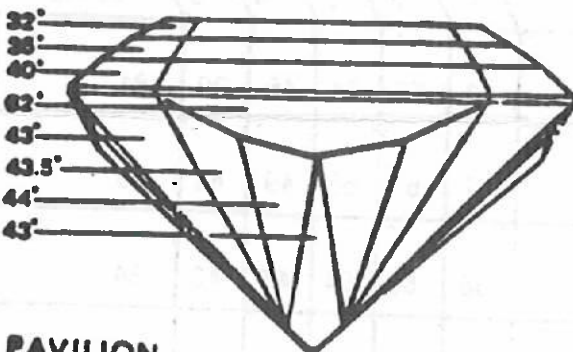
GIRDLE

Angle	Index
90°	80-20-40-60 10-30-50-70

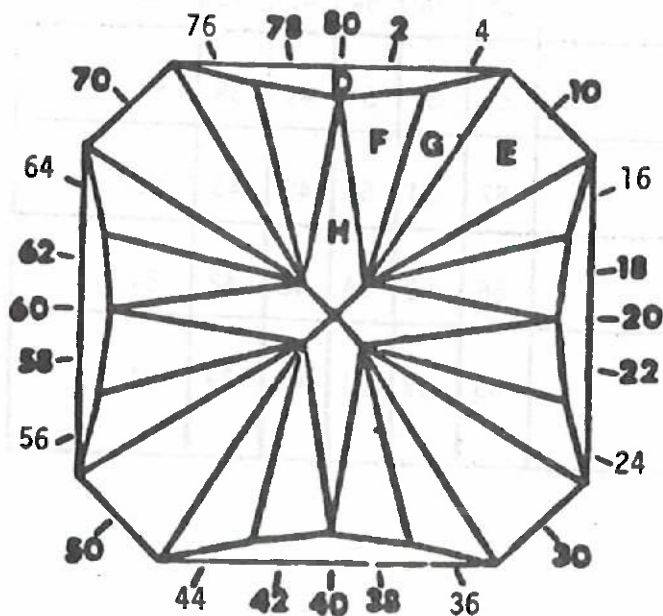
CROWN

Angle	Index
A-45	80-20-40-60 10-30-50-70
B-32°	80-20-40-60 10-30-50-70
C-37	80-20-40-60 10-30-50-70
0°	Table

SIDE



PAVILION

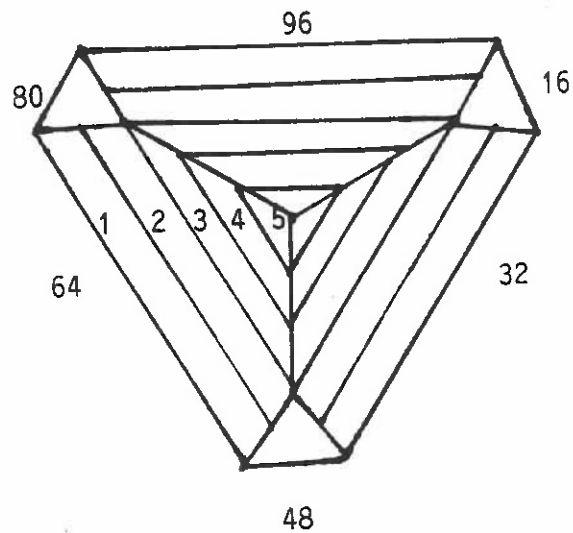
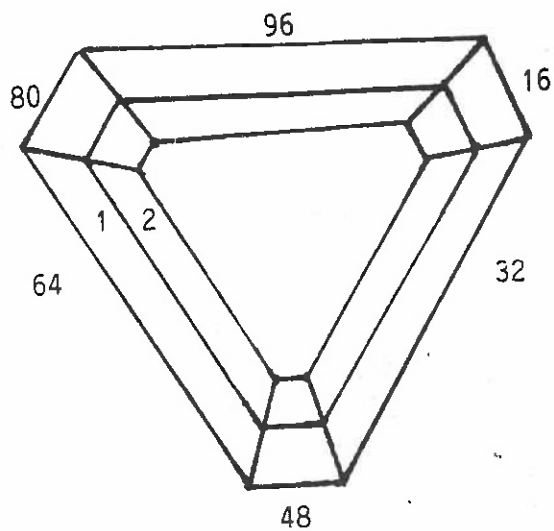


PAVILION

Angle	Index
D-65	80-20-40-60
E-46.5	10-30-50-70
F-43.5	02-18-22-38 42-58-62-78
G-44.5	04-16-24-36 44-56-64-76
H-42	80-20-40-60

Adjust angles if necessary to get proportions as shown on diagram.

TRIANGULAR STEP CUT



CROWN

PAVILION

	1	2	CORNERS	1	2	3	4	5	CORNERS
APATITE	43	28	43/28	63	57	51	45	39	81
BERYL	42	27	42/27	67	61	55	49	43	85
CORUNDUM	37	22	37/22	66	60	54	48	42	84
GARNETS	37	22	37/22	66	60	54	48	42	84
PERIDOT	43	28	43/28	63	57	51	45	39	81
QUARTZ	42	27	42/27	67	61	55	49	43	85
SPINEL	37	22	37/22	66	60	54	48	42	84
TOPAZ	43	28	43/28	63	57	51	45	39	81

JANUARY BIRTHSTONE: GARNET

Garnet gets its name from the Latin word "GRANATUM", meaning seed, and has reference to the seed of the Pomogranate and its red fruit.

It is generally identified by its red color but can be most any color except blue.

The dark red color of the Garnet was naturally associated with blood, and the wearing of the Garnet was supposed to be a protection against disorders of the blood and excessive bleeding. Also, it was supposed to be a protection against anger and mental disorders.

Legend holds that Noah used a huge Garnet for light on the ark.

Pyrope: Red with a Brown tint

Hardness - 7 to 7½

R.I. 1.730 - 1.760

S.G. 3.65 - 3.80

Almandine: Red with Violet tint

Hardness - 7½

R.I. 1.78 - 1.81

S.G. 3.95 - 4.20

Spessartite: Orange to Red-Brown

Hardness: 7 to 7½

R. I. 1.795 - 1.815

S.G. 4.12 - 4.20

Grossular: Green, Yellow, Copper - Brown

Hardness: 7 to 7½

R.I. 1.738 - 1.745

S.G. 3.60 - 3.68

Demantoid: Green, Emerald Green

Hardness: 6½ to 7

R.I. 1.888 to 1.889

S.G. 3.82 - 3.85

Uvarovite: Emerald Green

Hardness: 7½

R.I. About 1.870

S.G. 3.77

FEBRUARY BIRTHSTONE: AMETHYST

Amethyst was well known to the Ancients and there were many tales about its origin and much superstition regarding its magical powers.

One of its outstanding powers was its reputed ability to ward off drunkenness; merely having the stone on the person was supposed to prevent intoxication. The name (Greek) probably means "not drunken".

In reality, Amethyst is the most highly valued stone in the quartz group.

Amethyst: Violet, Pale Red-Violet

Hardness: 7

R.I. 1.544 - 1.553

S.G. 2.63 - 2.65

Citrine: Light Yellow to Gold-Brown

Hardness: 7

R.I. 1.544 - 1.553

S.G. 2.65

Prasiolite: Leek-Green

Hardness: 7

R.I. 1.544 - 1.553

S.G. 2.65

Rose Quartz: Strong Pink, Pale Pink

Hardness: 7

R.I. 1.544 - 1.553

S.G. 2.65

Ametrine: Amethyst/Citrine

Hardness: 7

R.I. 1.544 - 1.553

S.G. 2.65

SECRETARY'S MINUTES

President William Horton called the Board of Directors meeting of the Midwest Faceters Guild to order at 10:10 AM on October 26, 1991 in the Dearborn Civic Center, Dearborn, Michigan. Those in attendance were President Horton, Elery Holt, Frances Bush, Bernard Bush, Dorothy Loyd, Doris Medlen, John Tate, Guests were Jane Holt, Lester Medlen, Don & Gail Sahr, Bill Schell Jeanette Solinski and Virginia Steele.

The minutes were approved as published in the Midwest Faceter through a motion made by Elery Holt and seconded by Doris Medlen.

The Treasurer's report was accepted and filed for audit through a motion made by Doris Medlen and seconded by Dorothy Loyd.

It is with deep regret that Arthur Kalinski has sent in his letter of resignation. This will be a great loss to our guild as Art has been a very supportive and hard working member for many years. John Tate, Co-Chairman will resume the Chairmanship of the Show. The Ribbons have been ordered by Bill Horton.

The new Membership List should be out very soon.

Bill Schell has arranged for various machines to be demonstrated at the Show.

Bill Horton will have 2 cases on hand to display the Single stones submitted for Competition. One case and 6 non-competitive cases have been entered. Many exhibits are needed to make a worthwhile Show.

Bill received a letter from Margaret Heinek regarding our Birthstone cases being entered into Competition for the AFMS-MWF Convention in Brunswick, Ohio in 1992. No definite decision was made but she suggested Society in Educational or the Open Division. More information needed for final arrangements.

Dorothy Loyd needs tags to indicate the months in the Birthstone cases. It was suggested she was the one setting up the cases and should order what she

needs. Possibly brass plates engraved with the name of the month. If necessary Bill Schell will furnish the brass.

Central Michigan University of Mt. Pleasant, Michigan has need of Geology students to use their grants. If a High School Senior is interested in Geology they should contact the University for details.

The Department of Natural Resources of Indiana requests our support in promoting their new publication, "Minerals of Indiana". Most Guild Members participate through other Clubs so it was left at that.

Mine Design has been very good about sending information to the Guild on material available and at what price.

The New Faceting Rules have been submitted to AFMS for publication, but they may be held up as they were not presented to the Committee 90 days in advance of the meeting as required. More information as it becomes available. The changes are not satisfactory for the Faceting hobbyist.

Sheridan Lee Cernin requested information on an old Lee Machine so she can correspond and learn more about her machine.

A Candidate for Vice President is needed for today's Election.

Bill Horton will again become Editor as George Judd needs a rest due to his heavy work schedule. Kathleen Myers will be Co-Editor.

The following were suggested as meeting dates and places for 1992.

January 11th - Lansing, Michigan.

April 4th - Flint, Michigan.

May 9th - Toledo, Ohio

August 15th or 22nd - Crown Point, Indiana will be Hosts.

October 17th - Dearborn Civic Center. Dates and places will be announced as they are arranged.

Bill Horton will have a two-part article appearing in the January and February issues of the "Lapidary Journal".

The Seminar will be held in August at Hartland High School. Decisions need to

(next page, please)

SECRETARY'S MINUTES (cont'd)

be made as to what is needed and wanted by those attending. Suggestions should be sent to Bill Horton for consideration. It was suggested a computer design class replace the regular design class. The manuals from Bob Strickland are \$50.00. Bill Schell has Long & Steele disc, with permission to pass it along to others, but the Manual must be purchased as it is copyrighted. Kathleen and Ed Myers should be qualified to teach the Computer. Bill Horton will talk with Strickland to see what arrangements can be made for use of the manuals and discs in the classroom.

Bill Schell made a motion, "To adjourn" Seconded by Bernard Bush and carried. Meeting adjourned at 11:55 AM.
Respectfully submitted,
Frances Bush, Secretary.

The October 26, 1991 Membership Meeting of the Midwest Faceters Guild was called to order at 1:15 PM by President, William Horton, in the Dearborn Civic Center, Dearborn, Michigan. President Horton welcomed all those present and a special welcome to Jeanette Solinski and James Lane as new Members.

The minutes were approved as published through a motion made by Gail Sahr and seconded by Bill McVety.

The Treasurer's report was accepted and filed for audit as read by Elery Holt through a motion made by Harold Rice and seconded by Bill Schell. The Seminar reported expenses of \$1,924.76 and receipts of \$1870, showing a net cost to the Guild of \$54.76. Everyone agreed this was a great price for the knowledge and sharing enjoyed by the participants.

Dorothy Loyd reported she has been working on three of the Birthstone cases. Most of the stones have been received, but she is still in need of Zircons, rubies, and emeralds, especially jewelry. Dorothy would like to use miniature lights on the cases and doorways to create a Holiday atmosphere.

Workers are needed for set-up.

Editor, George Judd, absent - no report.

Educational Chairman, Bernard Bush, reported Bill Schell will have a program on "Computer Facet Designing" and a video of part of the Seminar presented by Dave Miller for the Texas Faceters Guild and a short visit to the Ranch of Harold Rice's Family.

Bill Horton gave pictures of the Diamond replicas cut for the Field Museum to Vivian Randall for the History Book. Bill also had individual pictures for the person that cut each stone. Vivian will bring the History book to the show. Bill also gave her pictures of the persons attending the Seminar.

Chairlady, Doris Medlen is in need of plenty of food for the Hospitality room. Every member is asked to bring a snack.

Show insurance has been secured for the Show.

Parliamentarian, Harold Rice reported we were O.K. for conducting the business of the day.

Rules Chairman, Bill Horton reported on some of the changes made in the AFMS Rules for Competition. Bill reported he was unhappy with some of the changes as he feels they aren't in the best interest of the average Faceting Hobbyist. The new Rule Book will be a loose-leaf book to enable changes without a completely new printing.

Membership Chairman, Bill Gardiner was working the Lansing Show - no report.

Special Competition Chairman, Ed Myers, absent - no report.

Show Co-Chairman Arthur Kalinski mailed in his resignation due to personal reasons. Hopefully he'll change his mind and reconsider. Co-Chairman, John Tate will become Show Chairman.

Bill Horton reported he has applications for 7 non-competitive exhibits with 8 single stones and one case in competition. Many exhibits are needed. Dealer spaces are all filled. Tony West is ordering tickets. Much help is needed. Every Member should try to sign up for an hour or two so no-one person will be tied to a job for the duration of the Show. Programs are set. More Raffle Prizes are needed.

(next page, please)

SECRETARY'S MINUTES (cont'd)

The Birthstone cases will be placed in competition at the AFMS-MWF Convention in Brunswick, Ohio, July 23-26, 1992. Everyone should think competition for Brunswick and NOW IS THE TIME TO START GETTING READY.

Central Michigan at Mt. Pleasant, Michigan is soliciting High School Seniors that are seeking a field in Geology. They have grants that are available. Interested Geology students please contact the University. Bill also has the information.

Bill expressed his appreciation to Mine Design for supplying the Guild with a price list on materials that are available.

The following were selected as possible dates and places for the 1992 meetings:

January 11th - Lansing, Michigan
April 4th - Flint, Michigan
May 9th - Toledo, Ohio
August 15th or 22nd - Crown Point,
Indiana will be Hosts.

October 17th - Business Meeting at Dearborn Civic Center.

Editor, George Judd is in need of a rest due to his heavy work schedule. Bill Horton and Kathleen Myers will be Co-Editors.

THANK YOU, GEORGE for a Job well done.

"THE MURRAY AWARD" was to be presented to Tom Gibbs but he was on vacation, so the Award will be presented to him at the Show.

A Slate of Officers for 1992 was presented as follows:

President - Tom Gibbs
Vice-President - Donald Sahr
Treasurer - Elery Holt
Secretary - Frances Bush.

Additional nominations were called for from the floor. No New Nominations were made. Harold Rice moved, "The Nominations be closed and the Secretary cast a unanimous ballot for the Officers." Motion seconded by Frank Beaven and carried.

Gail Sahr made a motion, "To Adjourn".
Seconded by Lester Medlen and carried.
Meeting adjourned at 2:20 PM.

A short program was presented on "Computer Facet Design" by Bill Schell and a portion of a Past Seminar that was presented for the Texas Facetors Guild by David Miller, Harold Rice and Bill Horton. Thank you Bill for sharing your information with us, meeting after meeting.

Respectfully submitted,
Frances Bush, Secretary.

1991

RAFFLE WINNERS

First Prize - Emerald & Diamond Pendant- Clifford Chapman - Midland, TX
Second Prize- Rubelite & Diamond Necklace & Earrings- C. Mulholland - Flint, MI
Third Prize - 14 K Blue Topaz - Bruce Smith - Garland, TX
Fourth Prize - London Blue Topaz - Robert Edmond - Peru, IN
Fifth Prize - 14 K Gold & Amethyst Pendant - Suzanne Underwood - Monclova, OH
Sixth Prize - Sterling silver necklace with Blue Star Sapphire - Gus Munoz-
Santa Ana, CA
Seventh Prize - Syn. Aquamarine in SS - Calvin George - Glendale Heights, IL
Eighth Prize - Sterling Silver Chain - Bob Sanderson - Birmingham, MI
Ninth Prize - Gallolite- Fran Ellen- Elkhart, IN
Tenth Prize - Large C Z crystal - Nancy Newman - Toledo, OH
Eleventh Prize - Gold Filled mounting with Amethyst- Effie Duty - Westland, MI.

Didn't get the resume of the Raffle ready as we were busy spending our vacation in Sunny Florida with our Son and his family. Will Have complete report next issue.

A VERY SPECIAL THANKS TO ALL DONORS and TICKET SELLERS and BUYERS.

BERNIE & FRAN BUSH, CHAIRMEN

THE EDITOR'S GEMS

Kathleen Myers /Bill Horton

** A very SPECIAL thank-you to retiring Editor George Judd for a super job with The MIDWEST FACETER these past few years. You did an excellent job George, and we all thank you for that service !*

** The FACETERS FAIR WAS BEAUTIFUL ! MANY THANK-YOUS TO ALL WHO SHARED THEIR TALENTS AND FOR THEIR HARD WORK. Anything that great always takes a lot of work by a lot of people... WOW - WHAT A GREAT JOB !!!*

** Be sure to attend the January Guild meeting with your ideas for AFMS rules revisions - our own Bill Horton is in command of the rewrite committee - that assures everyone a fair chance to respond and contribute their ideas.*

** We are looking for articles, faceting tips and cuts to publish in future issues please consider taking time to pen a few lines for sharing- we need your expertise !*

** Bill is off to the SUNNY WARM Southwest for the winter (the lucky dog !), in the meantime I will try to hold down the fort here on the COLD front - send all correspondence to 11630 S. Gera Road Birch Run, MI 48415*

MEMBERSHIP INFORMATION

Please use the application blank below to join or renew your membership in the Midwest Faceters Guild. Dues are \$5.00 per year, payable for the next year beginning October 1st. Non-payment of dues by April 1st will cause your name to be dropped from the membership rolls. After Jan. 1st, a RED DOT will appear on the label of those members who have not renewed their membership.

NAME: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: (____) _____ TYPE MACHINE: _____ TEACH ? _____

New Membership _____ Renewal _____

Please mail all dues to :

William H. Gardner

**MWFG Membership Chairman
4518 Sandstone Drive
Williamston, MI 48895**

1992

DATES TO REMEMBER

January

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

January

11 1:00pm MIDWEST FACETER'S GUILD MEETING Lansing, MI

25 19th Annual Faceters Fair Sacramento, CA

February

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

February

3 Tucson Arizona Gem Shows Begin
15 Tucson Shows End

April

3 Flint Rock & Gem Show Flint, MI

4 1:00pm MIDWEST FACETERS GUILD MEETING Flint, MI

10 Mt. Clemens Show Mt. Clemens, MI

May

2 Cincinnati Gem & Mineral Show Cincinnati, OH
15 Midwest Mineralogical & Lapidary Show Dearborn, MI

July

23 American /Midwest Federation Show Cleveland, OH

August

14 3rd ANNUAL MWFG SEMINAR

22 1:00pm MIDWEST FACETERS GUILD MEETING Indiana

September

5 Toledo Gem & Mineral Show Toledo, OH

October

8 Detroit Gem & Mineral Show

25 1:00pm MIDWEST FACETERS GUILD MEETING Dearborn

July

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

September

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

March

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

April

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

May

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

June

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	