

# THE MIDWEST FACETER



October 1995  
Volume 15 Issue 3

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## The Midwest Faceter

**Co-Editor**  
11630 S. Gera Road  
Birch Run, MI 48415

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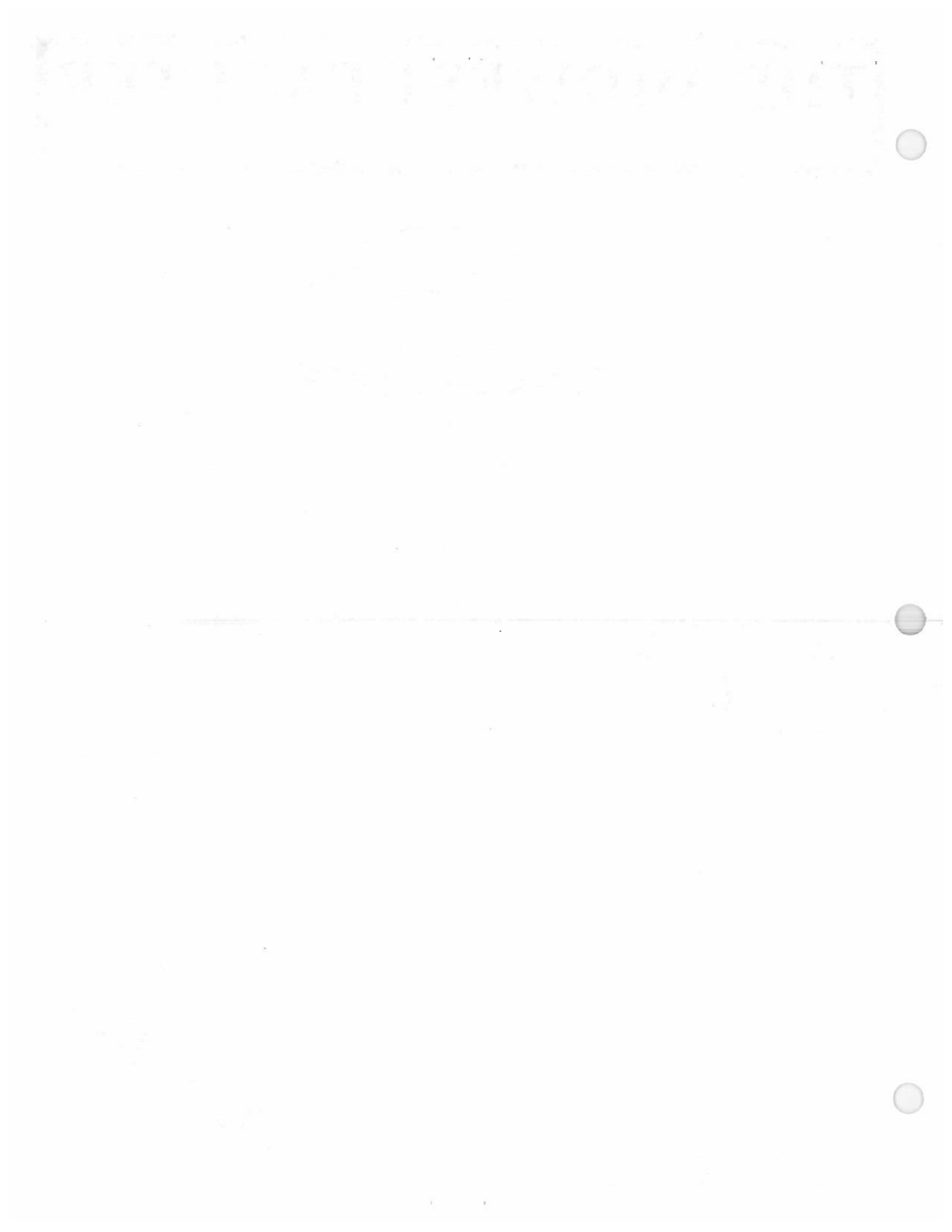
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### *Inside This Issue*

- \* *October Meeting Information*
  - \* *Scratches Article*
  - \* *Cross My Heart Diagram*
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# ♦The Midwest Faceter♦

Volume 15 Number 3

October 1995

## **MIDWEST FACETERS GUILD**

*\* Membership  
Information*

*\* Newsletter  
Deadlines*

## **A Publication of the Midwest Faceters Guild**

**E** ditors: **Kathleen Myers  
Bill Horton**

Send all Articles to:  
**THE MIDWEST FACETER**  
11630 S. Gera Road  
Birch Run, MI 48415

**Deadline:**  
The 10th of the month  
preceding publication.



**THE MIDWEST FACETER** is not not forwardable. For membership application or change of address contact: **Membership Chairman: Thomas Gibbs 622 Eighth Street Wyandotte, MI 48192 Phone (313) 282-3745**

**THE MIDWEST FACETER** is the the official publication of the **MIDWEST FACETERS GUILD** and is published five times each year available to members only as a portion of their annual membership dues. Statements appearing in **THE MIDWEST FACETER** are those of the authors and not necessarily those of the **THE MIDWEST FACETERS GUILD**, **MWFG** Board of Directors, or **THE MIDWEST FACETER** editors. The editors reserve the right to edit all material submitted for publication. Permission to reprint any material published in **THE MIDWEST FACETER** is granted provided full credit is given to **THE MIDWEST FACETER** and to the author.

## **THE MIDWEST FACETERS GUILD**

**\* ORGANIZED 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**

### **MEMBER OF:**

**THE MIDWEST FEDERATION OF MINERALOGICAL AND GEOLOGICAL SOCIETIES**  
**THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES**

## MIDWEST FACETERS GUILD

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(810) 465-3622

**Past Pres. Thomas Gibbs**  
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(313) 282-3745

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| Hospitality     | Doris Medlen<br>3639 Hiawatha Blvd. Fort Wayne, IN 46809 (219) 747-4985       |
| Librarian       | Deb Stutts<br>4173 N. Waldo Road Midland, MI 48642 (517) 835-9257             |
| Mailing         | Fran Bush<br>931 Bricker Street Toledo, OH 43608 (419) 729-3407               |
| Membership      | Thomas Gibbs<br>622 Eighth Street Wyandotte, MI 48192 (313) 282-3745          |
| Meeting Hostess | Jane Holt<br>6758 Erie Street Sylvania, OH 43560 (419) 882-1492               |
| Parliamentarian | Virginia Steele<br>250 E. Bristol Street #A7 Elkhart, IN 46514 (219) 264-4830 |
| Rules           | Dick Fairless<br>506 Alice Street East Tawas, MI (517) 362-5748               |
| Seminar         | Kathleen Myers<br>11630 S. Gera Road Birch Run, MI 48415 (517) 624-9178       |
| Show 1995       | Don Sahr<br>29435 Seaway Ct. Mt. Clemens, MI 48045 (810) 465-3622             |
| Special Display | Dorothy Loyd<br>28400 Hughes Street St. Clair Shores, MI (810) 778-7271       |

### THE MIDWEST FACETER

Co-Editors

William J. Horton  
2589 Hughes Road Howell, MI 48843 (517) 546-2159

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## GUILD MEETING October 28, 1995

**T**he Dearborn City Tavern Restaurant  
Michigan Avenue  
Dearborn, Michigan

Board Meeting..... 10:00 A.M.

**Morning Meeting with Bill Schell**

*Always of Interest to One and All*

**Regular Membership Meeting... 1:00 P.M.**

**Election of Officers**

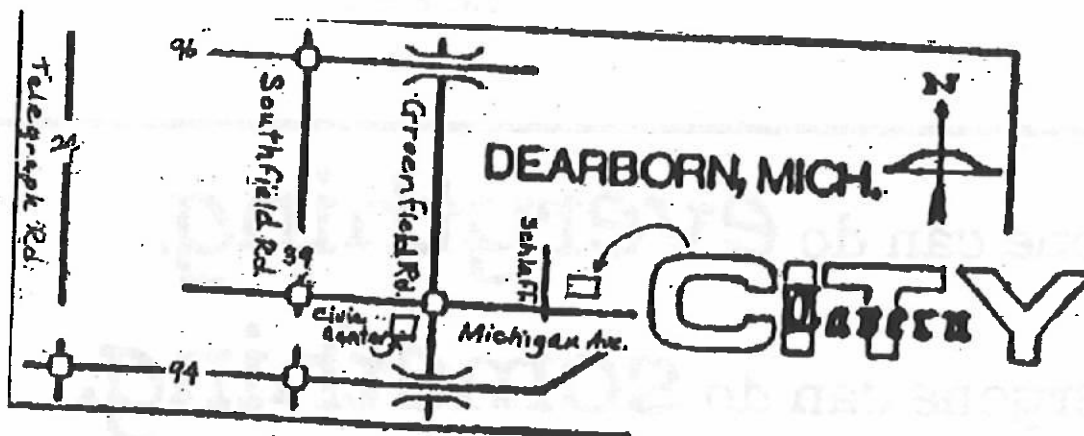
**Program: Casting - What's New for 1995**

**Bill Gardiner**

**B**ring A Friend !!

*See You  
There  
For  
Lunch!*

*Annual  
Meeting!*



## From the President's Quill...

*Bill Gardiner*

**A**nother milestone in the history of the Midwest Faceters Guild our Sixth Annual Weekend Seminar.

Hats off to Bill Horton, Kathleen Myers and the entire Seminar Staff, each one of them puts out the little "extra" that always makes out Seminar an event to remember.

We enjoyed seeing old friends and meeting new ones. A special treat was having a large Canadian contingent and having Ralph & Billie Westen from Australia join us for the weekend of learning and fun.

We now head into another **BIG EVENT** for the Guild - the **Faceters Gem & Jewelry Show November 10 - 12 at the Dearborn Civic Center.**

We need your help and support to make this show a success - how can you help? Invite your home club to attend, sell a raffle ticket, enter competition, bring a case display, take tickets, clean glass on showcases, guard a door, make coffee for workers, cover tables, clean-up, come to the show and bring your friends, neighbors and family, etc. There are all kinds of ways to help - you too can contribute to our success!

Looking forward to our next meeting in Dearborn for the annual election of officers and the Fair - **hope to see you here!**

**The Prez...**

No one can do **everything**,  
but everyone can do **something**.



**Rules Notes...**

*Dick Fairless*  
*MWFG Rules Chairman*

**W**e are ready to take your single stone entries for the competition at the Faceters Gem & Jewelry Fair November 10 - 12, 1995.

Mail your entries early and then dust off your case to bring the rest for display at the fair.

**November  
10, 11 & 12**

If you need a fresh copy of the rules, an entry blank, or have a question, please call (evenings are better) - 517 362-5748.

Remember we have classes for everyone from Juniors - to Master Cutters, jump in and participate - you will learn tips to improve your cutting and who knows, you may even win!!

**We need your Gemstones!**

**From The Rolls...**

*Tom Gibbs*

**MIDWEST FACETERS GUILD MEMBERSHIP**

Dues \$5.00 - includes subscription to The Midwest Faceter

Fiscal year is January 1st through December 31st. Dues are \$ 5.00 per fiscal year or portion of a year.

Name \_\_\_\_\_

Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Zip Code \_\_\_\_\_ Phone (\_\_\_\_) \_\_\_\_\_ Country \_\_\_\_\_

Do you teach faceting ? \_\_\_\_\_ What type of machine do you have ? \_\_\_\_\_

Make all checks payable to **Midwest Faceters Guild** and send to:

**THOMAS GIBBS, MEMBERSHIP CHAIRMAN**  
**622 EIGHTH STREET, WYANDOTTE, MI 48192-2637**  
Phone (313) 282-3745



RENEW TODAY.....RENEW TODAY..... RENEW TODAY.....RENEW TODAY

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MIDWEST FACTORS GUILD ANNUAL SHOW

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Have you sent in your application for display space for our Annual Show? Time is running out! November 10-12, 1995 will be here very quickly. The May 1995 bulletin, Volume 15, issue 2, has the rules and diagrams for competition, as well as entry forms for competitive and non-competitive displays. **WE NEED YOUR DISPLAY!** Our next meeting will be October 28, 1995, in Dearborn, Michigan. This will be our last chance to finalize our show preparations. **WE NEED YOU AT THIS MEETING!**

We have had problems in the past getting enough faceting displays, so we are opening up the display section for other types of lapidary displays, jewelry, etc. Don't be timid, don't be shy, don't forget that old Sam will be passing by! Dust off those display cases and send in your application. Call Dick Fairless or Bill Horton for applications, or verbal acceptance. By any means, bring in those displays! Case displays are a very important part of any successful show.

We have a commitment from Paul Clifford, curator of the gem section of the Cleveland Museum, for a special display. The Cleveland Museum has some of the finest displays you will ever see. I'm sure Paul Clifford will bring a display that will be a real center piece for our display section.

If you have any free time during the Show, please volunteer to help. There are many jobs to fulfill. None are physical to the point they can not be done. We need people to sell tickets at the door, man the club booth, sell raffle tickets, judge gemstones, and etc. These are set down jobs, not hard to do, but have to be accomplished. You will enjoy meeting new people, as well as visiting with old friends. You may even enjoy a tailgate party, or the Saturday night dinner at the CITY TAVERN. Most of the gang will be there for dinner and a sing-song. The place goes native on Saturday night!

Everyone should have their raffle tickets. The raffle tickets are the icing on the cake for our show. This area usually puts the Guild into the blue side of the ledger for the show. **SELL THOSE RAFFLE TICKETS!** Frances and Bernard Bush have made the raffle a success for as long as we have had a raffle. We owe them both, big time, for their efforts. 10,000 **ATTABOYS** to Frances and Bernard! The least we can do is support them in the raffle. We have some great prizes. Jane Holt donated some of the gemstones that Elery had cut. They will be mounted in 14 ct gold. Everyone will want to win one of these. A big **THANKS** to Jane for her generosity!

There will be a crew meet at the Dearborn Civic Center, Thursday morning. We will rent a U-Haul truck and get the electric and display cases (from MMSLD). These will be brought back to the center, and Thursday late afternoon, we will start to install the electric. This will be completed by Friday noon, to allow the dealers to set-up. Everyone is welcome to help set up the electric and cover the tables. Come on down and lend a hand. We will have some fun!!

If you have any suggestions for a better show, we would encourage your participation. Many thoughts give many avenues. This makes our show better each year. Keep those ideas coming.

WJH

## The World's Largest CZ Is Cut!

Via The Toledo Gem & Rockhound Club News, Adapted from the AFMS NEWS  
Article by Richard L. Glismann

A record breaking CZ has been cut by a six member group who call themselves *The Dare-Devil Faceters*.

The members found a 10.58 pound CZ in Quartsite in February 1994. The CZ weighed a huge 24,000 carats and intrigued the faceters who had just finished, "The Lady", the world's largest faceted quartz (on display at the 1994 Midwest Faceters Fair), which weighed 44,742 carats.

The cutting began in September of 1994 and was completed November 10th, The finished CZ weighs 5.59 pounds - a mere 12,678 carats!!!

The stone was christened, "The Countess," in keeping with the faceters fascination with how each piece of rough is identified with the good women in their lives. These Dare-Devil Faceters all belong to the Intermountain Faceters Guild in Utah.

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### MWFG Membership Badge...

First Name \_\_\_\_\_

Last Name \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Street Address \_\_\_\_\_

Phone \_\_\_\_\_ Zip \_\_\_\_\_

Mail to: A-Frame Awards  
414 S. Dort Hwy.  
Flint, MI 48450

Total cost \$ 6.50  
(includes shipping)



## Scratches... ( A program given at the Midwest Faceters Guild Annual Seminar)

by **Ralph Westen**  
Australian Faceters Guild

Most scratches are the result of insufficient pre-polishing and the inability of the faceter to note their presence prior to polishing.

Invariably this is due to the lights in use, their position over the machine and the position of the operator. Faint scratches which take a long time to polish out in corundum or other hard materials are often not seen against the slightly textured background of a seemingly adequate pre-polish. Scratches invariably run in the same direction as the pattern left by the pre-polish lap, therefore, when wiping a facet to get a better view, always wipe across the facet and not parallel to the lap direction to differentiate between surface markings.

What is being discussed here however are scratches not caused by previous laps but those which appear when polishing. Often scratches occur just prior to the completion of a facet when polishing is nearly finished. This irritating occurrence has a reason and we shall see why.

When cutting for the International Challenge Cup, competitors were required to cut four stones, one of which boasted 161 facets and the organisers with perverse cruelty and sadistic intent, insisted that it be cut in quartz. An appropriate section of the crown is shown in Figure 1. to illustrate the type of scratches which do occur.

The equipment used consisted of an eight inch solid type metal lap from V.J. Engineering which was charged with 100.000 diamond compound.

The diamond compound was made up by mixing one carat of 100.000 diamond with five mL Vaseline and was stored in a five mL syringe.

The type metal lap was not scored but was given a good scrubbing with "Solvol", a pumice based soap, and a hard nylon nail brush. This of course is a form of scoring.

A small amount of compound was squeezed onto the lap, (approximately one centimeter long by one millimeter diameter) from the syringe and rubbed into the lap, after which it was wiped over with a small pad made of an old and often washed hankchief. It takes a little while to work a lap in after cleaning and charging.

No further lubrication of any type, either water or oil based liquid was used during polishing. Occasionally the pad was rubbed over the lap to recharge with a fraction of compound being added to the pad from time to time.

### Discussion

Basically there are only three groups of scratches which appear during polishing and they are caused by:-

1. Contamination
2. Excess compound
3. Adverse techniques

### Contamination

Contamination can be caused by a variety of foreign matter, large size diamond particles from other laps, pieces of gem materials or even airborne dust particles.

It follows that cleanliness is essential.

## Scratches...

### Excess Compound

Excess diamond compound is probably the cause of more trouble than is realised. A build-up of slurry along the leading edge of the facet can round edges. It can 'ball-up' and cause particles 1000 times bigger in volume for a fraction of a second and dissipate immediately before reaching the end of a facet during polishing.

Remember that one particle of 100,000 diamond is smaller than half the wavelength of green light. In a single scratch on the lap, measuring 1/30 mm x 1/30 mm x 1 mm, which is just visible to the human eye, we can put \$7,600,000 particles. It follows therefore that even moderate scoring is superfluous. Marks left by "Solvol" or 600 wet and dry are sufficient to hold more compound than is needed.

### Adverse Techniques

Adverse techniques include excessive hand pressure, what I have called before the white knuckle syndrome. Rapid sideways movement which knocks bits out of edges. Excessive lap speed. Cracked but not yet broken edges caused by previous laps, which break off when polishing commences. A badly scored lap caused by wrong index setting.

In addition inclusions may break through the surface and cause pits, scratches and sometimes, discolouration.

Figure 1 illustrates a variety of scratches and blemishes which will occur with most materials. Quartz is exceptionally prone to scratch marks just prior to completion. Topaz can present us with delamination problems caused by incorrect orientation. Each material has its own problems which will occur from time to time. A description is given hereunder with a suggested remedy.

- A. Lap contamination causing gross damage to leading edge, surface and often trailing edge. In quartz the scratch shows a distinct concoidal fracture under the surface and takes a considerable time to remove. This type of contamination can often be spotted on the lap under an obliquely held light, preferably a point light source. Remove with a small sharp object and rub area with a piece of corundum to remove burr.
- Thin tramlines or parallel running lines are generally caused by one or a series of small foreign particles on the lap or are a build-up of residue. They do not occur often on a type metal laps. The best remedy is to scrub with "Solvol" and re-charge. Clean splash pan and machine to overcome any possible contamination.
- B. A series of scratches which starts some distance away from the facet edge and generally finishes before the trailing edge. Often they are very short and not very deep except in softer materials. They also occur as dot-dash-dash in-line pattern and are caused by excess diamond compound "balling-up". Vargas calls it aggregation and flow; often caused in conjunction with excessive pressure and speed.
- Remove excess diamond with clean tissue using some hand pressure on stationary lap. When polishing quartz polish lap with clean tissue until it shines. Do not charge or lubricate because it will still polish. The same goes for zircon where excess polish will show up as fine parallel lines or as a greasy smear. Clean lap and polish at slow speed, approximately 200 rpm and absolutely no hand pressure, perfect polish is practically instantaneous.

## Scratches...

- C. On hard materials surface show a greasy smear like polish. Again, too much compound, clean lap with tissue and polish at slow speed and practically no pressure.
- D. When polishing facet No. 3 small scratches of near identical length appear on the preceding polished facet No. 1. It was observed that these scratches appeared during a windstorm and stopped immediately the windows were closed and a fan turned off. Others working in front of open windows experienced the same problems. These scratches were caused by airborne particles which are fairly uniform in size and have a hardness of 6-7. Facetors in dusty and smokey areas, especially in the summer months, watch out!
- E. An edge chip and a long scratch from the chip towards the trailing edge. Excessive sideways movement during cutting with a coarse lap can fracture the edge. The piece will come adrift during polishing and according to 'Murphy's Law', will land on the polished facet and cause a deep scratch. When polishing never move your stone sideways by more than twice the width of the facet and do it gently. This will keep the facet flat and the edges undamaged. Next facet is polished on the adjacent spot on the lap to cause even wear.
- F. When polishing facet No. 4 small scratches of uniform size appear on the leading edge. No. 4 is adjacent to No. 2 which is not polished. The small serrated edges of the unpolished facet break off producing the small scratches. Always try to polish the pavillion from the girdle to the culet and the crown from the girdle to the table without going over an unpolished facet.
- G. Polishing not completed causing a rounded finish at a sharp point, light source is too big and obscures the softly rounded edges by diffuse light. Use a point light source and adjust to a different position for each series of facets.
- H. A very soft, near white mark which generally starts at the leading edge without causing a chip and often dissipates before reaching the trailing edge. This is not a scratch but a scuffing mark. It needs very little contact with the lap to polish out. It may be caused by tissue fluff and other soft contaminants.  
Use as little tissue as possible because it will accept diamond readily and not only contaminate your lap but also wear your machine out. Chamois leather is superior in all respects except when working with very greasy laps. Natural thin chamois, cut in 10 cm x 10 cm squares, well wahsed with good quality hand soap in cold water and kept in its' own container to prevent contamination.

If during polishing a scratch appears which does not run in the lap direction, check for a flaw in the stone or a stray piece of diamond or other gem material in the chamois or tissue being used.

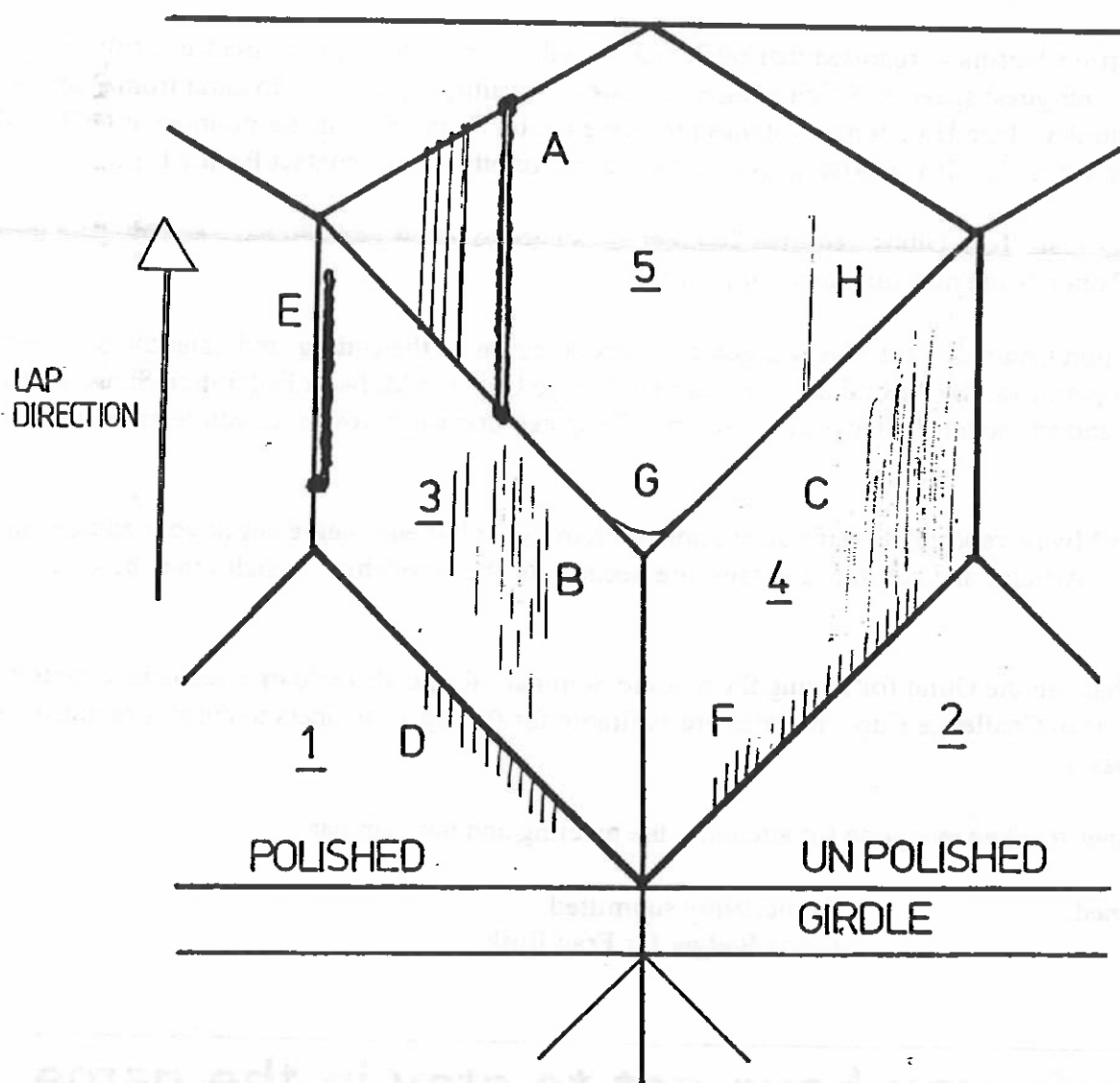
Most scratches which appear just prior to completion of the polishing are caused by the interaction of the highly polished facet and excess of polish on the lap. As there is no rough area left to break up the polishing compound, it will "ball-up" or aggregate and form a hard and may-be, a fused particle, which then gauges a sizable chunk out of the polished area. To remedy this problem, before finishing

## Scratches...

the facet, wipe lap with a fresh tissue to remove all excess compound. As the facet is nearly polished, turn down lap speed and with a minimum of pressure, complete polishing.

In general, use less diamond, less grease, less oil, less fluff and in particular, less pressure for perfectly flat and highly polished facets.

Ralph Westen



## Secretary's Minutes....

Linda Badger for Fran Bush

August 19, 1995 Meeting:

I just wanted to start off with a HIP-HIP-HURRAH for the GREAT TEAM effort of the SEMINAR ORGANIZERS again this year. You all contribute so much to making it FUN FOR ALL. ALSO TO ALL THE TEACHERS AND OUR GUEST SPEAKER, RALPH WESTEN, who came all the way from Australia. **THANK-YOU from ALL of US.**

The meeting was called to order by President, Bill Gardiner who started the meeting by introducing the Guild officers.

Bill Horton gave the treasurer's report and reminder everyone to attend meetings.

Rules Chairman, Dick Fairless invited everyone to compete in the November 10 - 12 Midwest Faceters Gem & Jewelry Fair in Dearborn. On-Site and mail-in Classes are available.

Bernie Bush, Raffle Chairman, reported that raffle tickets will be in the mail soon. Bernie is still collecting prize donations. Our guest speaker, Ralph Westen, donated a beautiful sapphire 1.55 carat from Rubyvale, Queensland, Australia. Jane Holt donated stones that were cut by Elery that will be mounted in gold by Don and Gail Sahr for the raffle. If you wish to donate any stones or other items contact Bernie Bush.

Membership Chairman, Tom Gibbs, reported 260 members need to renew and 280 have already paid their dues for 1995. Tom has the new directory for paid members.

Special Competition Chairman, Ed Myers urged everyone to get in on the cutting and enter the Midwest Faceters fall competitions, the Australian/American Challenge Cup, the Midwest Federation Show in Detroit October 13- 15, and any local challenges in your area. Ed stated that when you enter you learn more about your cutting.

Editor, Kathleen Myers, reported that if you are not receiving your bulletin please check your address and renew your dues. Articles and cuttings diagrams are needed for the newsletter. Articles may be typed or hand written.

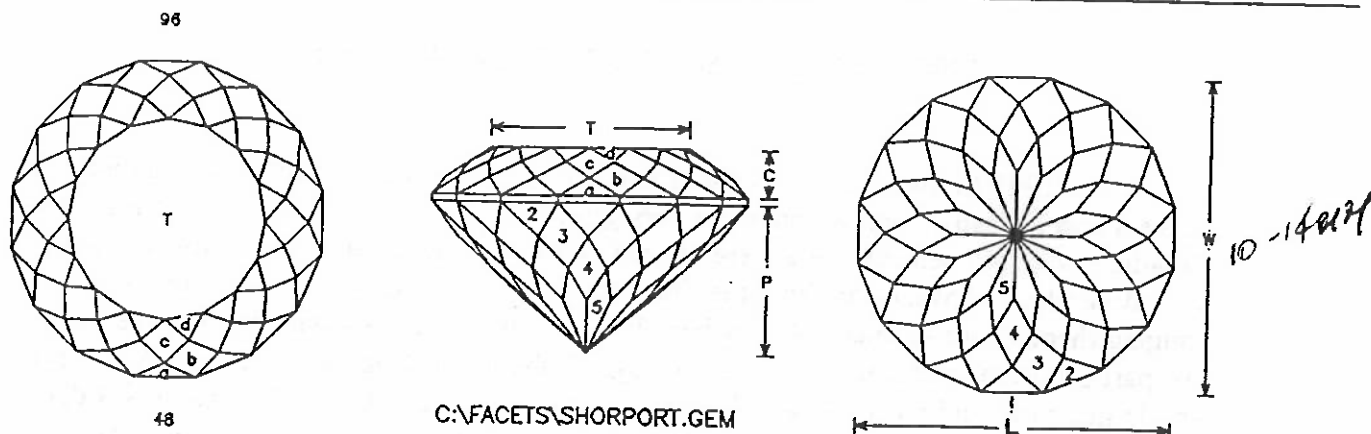
Ralph Westen thanked the Guild for having them at the Seminar. Ralph also told of a secondary contest of the Australian/American Challenge Cup, emeralds are available for the top 10 winners to cut in a rematch on a cut two, keep one basis.

President Gardiner thanked everyone for attending the meeting and the Seminar.

Meeting adjourned.

Respectfully submitted,  
Linda Badger for Fran Bush

**To win you have got to stay in the game.**



### THE SHORT-PORT CUT (SHORPORT.GEM)

A design by Fred W. Van Sant (01.286)

STAR CUTS vol. 1, p. 34

Angles for Cubic Zirconia

Facets — Crown Girdle Pavilion TOTAL

No. of Facets 65 + 16 + 64 = 145

No. of Meets 64 - 49 = 113

16-fold symmetry

96 index

L/W = 1.000 T/W = 0.638

P/W = 0.478 C/W = 0.152

H/W = (P+C)/W+0.02 = 0.650

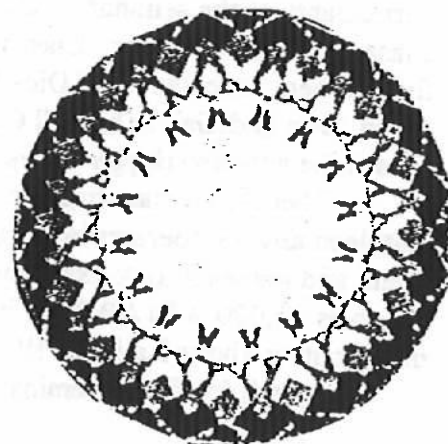
#### PAVILION

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| 1 | 90.00 | 96-06-12-18-24-30-36-42-<br>48-54-60-66-72-78-84-90 |
| 2 | 52.60 | 96-06-12-18-24-30-36-42-<br>48-54-60-66-72-78-84-90 |
| 3 | 47.00 | 03-09-15-21-27-33-39-45-<br>51-57-63-69-75-81-87-93 |
| 4 | 42.98 | 96-06-12-18-24-30-36-42-<br>48-54-60-66-72-78-84-90 |
| 5 | 40.50 | 03-09-15-21-27-33-39-45-<br>51-57-63-69-75-81-87-93 |

#### CROWN

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| a | 52.00 | 96-06-12-18-24-30-36-42-<br>48-54-60-66-72-78-84-90 |
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| c | 35.00 | 96-06-12-18-24-30-36-42-<br>48-54-60-66-72-78-84-90 |
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| T | 0.00  | Table                                               |

#### BRIGHTNESS PLOT



## 1995 MIDWEST FACETERS GUILD SEMINAR

The 1995 Midwest Faceters Guild Seminar was very successful !!!! We had 64 faceters and 16 instructors, which was a very good mix. We were very happy to have six Canadians visit our seminar. We were blessed with a visit from Billie and Ralph Weston, from Australia. Al Manestar, from the Toronto Faceting Guild, was responsible for bringing them to our seminar. A very big "Thank You" to Al Manestar. Ralph gave us a two part program, on Friday and Saturday nights, about polishing. If you have a type metal lap, do get it out and try it !!!! Ralph swears by the type metal lap !!! Not only was Ralph very informative, but he was very entertaining !!! It was as good a program as we have ever had !!! If you missed the seminar, you missed a very great program !!!

Robert Strickland was with us once again, to give a class on the GEM CAD program of designing new diagrams for gemstones. We will ever be in Bob's debt, for his contributions to our seminars. 10,000 ATTABOYS to Bob Strickland, we love you !!!

We also had Ken and Norma Painter, from Scottsdale, Arizona. Norma has given us many articles for our bulletin. She gave me a preview of a new style of cutting that hopefully will be forthcoming in other articles. Ken gave his expertise to the seminar showing people how to align their machines, to eliminate problems such as the Terrible Fourth Corner !!! If you have problems with Ken aligning your machine, believe me, I have allowed him to completely disassemble my machine, and realign it. I believe he has had a major effect on my cutting ability !!!! 10,000 ATTABOYS to Ken Painter !!!

The 1921 Building in Hartland, is a very advantageous venue for a seminar. It is a very quiet rural community, close to the National Interstate system. The building was built, as indicated, in 1921. Each seminar grows, as it should. We have reached a point of maximum power output for the old building. We will look for adding power to the facility, or flowing into the 1951 building. We will also look to the possibility of changing the venue to a "MOTEL" that will accommodate our needs of our next seminar. This will help to eliminate the problems of motel rooms. We may also have the privilege of having catered meals at the site. Whatever, we will publish the results of our findings, and report back in future bulletins.

The Guild would like to give 10,000 ATTABOYS to all of the instructors and the participants of the seminar. Class one, Tom Gibbs, Bob Werner, and David Graham. Class two, Bob Springer. Class three, and class four, Ed Myers and Bill McVety. Class five, Robert Strickland and Dick Fairless. Class six, Don Dunn and Bill Horton. Class seven, Don and Gail Sahr, Bill Gardiner and Ted Gravatas. Class eight, Kenyon Painter. Class nine and ten, Happy Gibbs and Jacquie Swain.

There is no classification for Kathleen Myers. She makes all things come together! Kathleen always operates in the background. She always anticipates problems, eliminates them, and makes it look like they were part of the program !!! If there is anyone who deserves 20,000 ATTABOYS, it's Kathleen. The Guild, and the seminar., would be in dire straits without Kathleen !!!

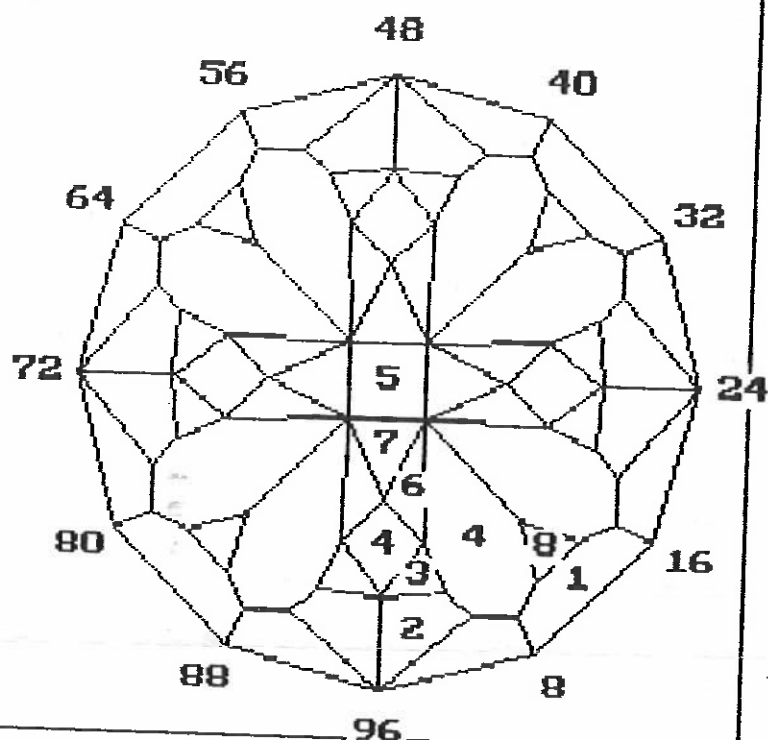
Watch for future seminar information, and don't miss the next seminar !!!!!

# "Cross My Heart"

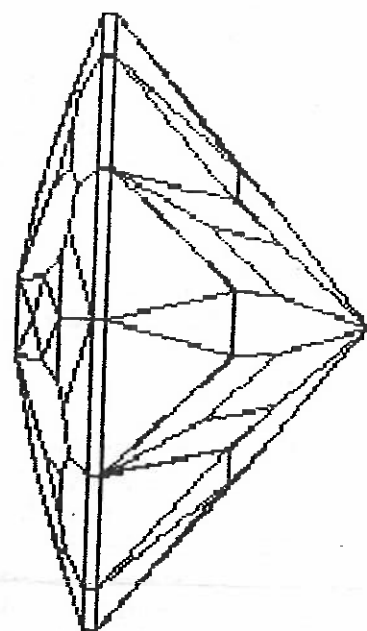
By Jerry L. Capps - 6/30/94



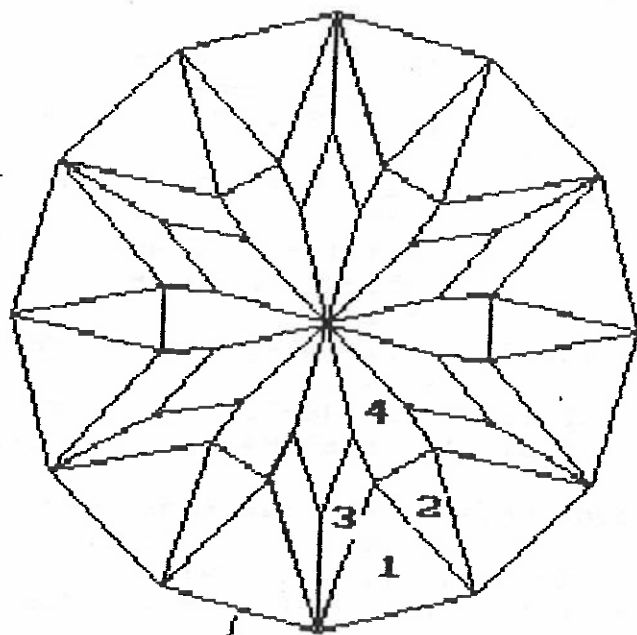
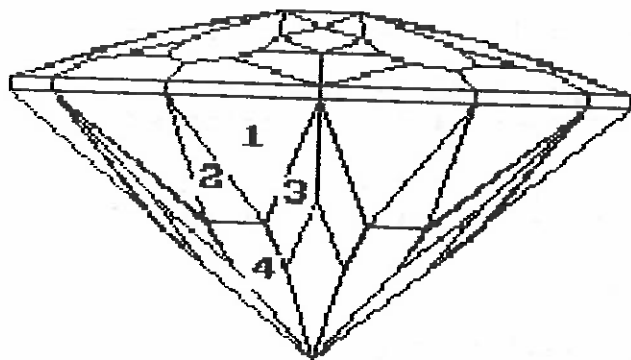
TOP



SIDE



KT



BOTTOM

"CROSS MY HEART" by Jerry L. Capps, 6/30/94  
 ISO Refl. (faceup/tilt 20): See footnote  
 (Advanced Faceting)

Angles for R.I. = 1.76  
 99 facets + 12 facets on girdle = 111  
 12-fold symmetry  
 96 index  
 $L/W = 1.000$   $T/W = 0.124$   $T/L = 0.124$   
 $P/W = 0.423$   $C/W = 0.121$   
 $H/W = (P+C)/W+0.02 = 0.564$   
 $P/H = 0.750$   $C/H = 0.215$   
 $Vol./W^3 = 0.169$

## GIRDLE

G-1 90.00 04-12-20-28-36-44- Symmetry 12  
 52-60-68-76-84-92

## PAVILION

1 43.50 04-12-20-28-36-44- Level girdle; Symmetry 12  
 52-60-68-76-84-92  
 2 40.77 08-24-40-56-72-88 MP girdle; TCP (Temp.Cntr.Pnt)  
 3 41.32 02-14-18-30-34-46- MP 1-G1, 2-1-3  
 50-62-66-78-82-94  
 4 39.73 96-08-16-24-32-40- PCP (Perm.CntrPt); MP 2-1-3  
 48-56-64-72-80-88

## CROWN

1 26.04 04-12-20-28-36-44- Level girdle  
 52-60-68-76-84-92  
 2 19.34 01-23-25-47-49-71- MP girdle; Symmetry 4-mirrored  
 73-95  
 3 15.32 01-23-25-47-49-71- MP 2-1 (frosted?)  
 73-95  
 4 14.52 96-08-16-24-32-40- MP 3-2 at 96,48,24,72; Symmetry 12  
 48-56-64-72-80-88  
 5 0.00 Table Cut to 17.1% of 96/48 diameter  
 6 12.93 02-22-26-46-50-70- MP 4-3, MP Table 4-5 (frosted?)  
 74-94  
 7 12.06 96-24-48-72 MP 4-6; MP Table 4-5-6  
 8 15.81 12-36-60-84 Optional Mast (floater) (frosted?)

Accent Cross & Hearts: frost Crown Steps 3,6,8.

Tangent/Ratio RI 1.67 C7 to 14\*

RI 1.59=96.1/67.4 1.62=96.3/70.8 \*1.67=95.5/79.6  
 (% brilliance) 1.76=96.2/85.8 2.15=95.5/92.5

## Editors' Gems...

*Kathleen Myers*

*Bill Horton*

- ♦ Beautiful Autumn.... after the hot Summer a wonderful welcome relief! The crisp weather should give all a boost and the urge to facet a beautiful treasure of nature. Savor the moment..they pass all too quickly.
- ♦ Seminar was great once more... new cutters and returned folks - always a pleasure to see the twinkle in the eye of a first gemstone, a first GEMCAD diagram, and this time a first casting!
- ♦ Special thanks to Ralph Westen and Jerry Capps for the article and cutting diagram for this issue.
- ♦ Charter member Stan Marks of the Flint Faceters died as a result of a bus/truck accident this summer, our sympathies to Stan's wife and sons. You may remember Stan for the faint Irish brogue and quick wit. Stan had retired and moved to North Carolina a couple of years ago.
- ♦ Missing from the Seminar a Nubond 3000 lap - will the person who borrowed it PLEASE return it to Bill Horton. Also three sterling serving spoons - please give to Bill.
- ♦ Is your case ready for the November Faceters Fair? We need it - **REALLY** - remember we always get tons of new folks who have not shared your wonderful case. All types of cases are welcome - lapidary, minerals, jewelry, faceting, educational, antique or whatever - it won't be much of a show without your display!
- ♦ We are looking at a possible new site for the Seminar, one with lots of motel rooms, meeting rooms, self-contained camping and air conditioning - more on that next issue. Looking at August 23 - 25, 1996 for dates - any ideas? contact Bill or Kathleen.

**BE FLEXIBLE  
AND YOU WON'T GET  
BENT OUT OF SHAPE.**

1  
9  
9  
5

## 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 |

## October

| 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 |    |    |    |    |

### Calendar Of Events

#### September 8 - 10

*Toledo Gem & Rockhound Show*  
Masonic Complex  
Toledo, Ohio

#### September 15-16

*Tulip City Gem & Mineral Show*  
Holland Civic Center  
Holland, Michigan

#### September 23-24

*Livingston Gem & Mineral Show*  
Hartland High School M-59  
Hartland, Michigan

#### October 13-15

*Midwest Federation Show & Convention*  
*Greater Detroit Gem & Mineral Show*  
Light Guard Armory  
4400 E. Eight Mile Detroit, MI

#### October 27-29

*Lansing Gem & Mineral Show*  
Lansing, MI

#### October 28

*Midwest Faceters Guild Annual Meeting*  
Dearborn City Tavern Restaurant  
Michigan Avenue, Dearborn, Michigan

#### November 10 - 12

*Midwest Faceters Gem & Jewelry Fair*  
Dearborn Civic Center  
Dearborn, Michigan

## November

| 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 |    |    |    |    |    |    |

# THE MIDWEST FACETER



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## The Midwest Faceter

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### *Inside This Issue*

- \* January Meeting Information
- \* Clear Lake Contest
- \* Winners

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