

THE MIDWEST FACETER



A VERY SPECIAL CHALLENGING EDITION !!

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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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

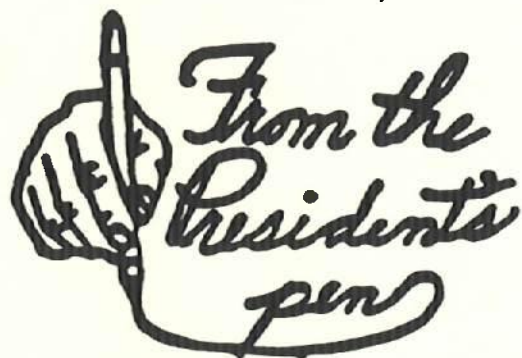
NAME _____

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 _____



A CHALLENGE HAS BEEN ISSUED!!!!

The Australian Faceters Guild has issued a challenge to all of the American Faceting Guilds. I think it would be especially good to answer this challenge. I really think it

would be "super" for THE MIDWEST FACETERS GUILD to answer this challenge since we are the largest of the American Guilds. Attached to this "VERY SPECIAL BULLETIN" are the rules by which the contest will be governed. I ask each of you to respond, and get your gemstones entered. This will be a very positive way to get better acquainted with the fellow faceters from "Down Under." I'm sure we would all feel very proud if we could win this challenge cup (WE lost the Australian-American sailing cup.). Get your machines oiled up, or rather loaded up, and answer this challenge with your very best cutting. Let's show them our Sunday best! GO TEAM, GO,GO,GO!!!!!!!!!!

The Midwest Faceters Guild Show is rapidly approaching. Attached to this Bulletin are three "Flyers." Please attach one each to your car rear side windows and do some advertising for the show. Place the third Flyer in the most promising place in your local area that will attract the most attention. Spread the word to all of your friends. Bring them to the show! We will also need help in setting up the show and maintaining a working crew. Come on down, and we will have a ball. Try not to miss the great display's and programs. If you haven't sent your entry blanks for display space or competitive entries, please do so as soon as possible.

We (Seven very special members) maintained a booth at the Cincinnati Show the 13-14 of April. We had a very good time! We meet new people who were interested in faceting, and talked with old friends from before. Harold "Arizona" Rice will be setting up a booth at the Chicagoland Show on Memorial weekend. All you Guild Members from that area get in touch with Harold at the show. He would be very happy to have some of you in the booth with him, to help with the demonstrating.

BERRA'S FIRST LAW:

YOU CAN OBSERVE A LOT JUST BY WATCHING!
(Come on down to the show and watch!!!)

William J. Horton
President



FROM YOUR MEMBERSHIP CHAIRPERSON

Are you still looking for your membership cards? Are you wondering if your dues money has been received?

The answer to both of these questions is likely a positive one. As to cards, we have run out. More cards are being printed. The original artwork has been lost by the printer. New artwork is required. Please be patient, and your card will catch up to you. As for your check, to date all have been recorded and deposited.

If you have not paid your 1985 dues, this is the final newsletter you will receive. Check the mailing label. If it has a red mark on it, you have not paid. Send your \$5.00 in today so that you DO NOT GET DELETED.

For membership data:

264 Paid in for 1985.

164 Paid in 1984, but not in yet for 1985.

428 Total, paid and unpaid.

As stated, if you have a red mark on your mailing label, get your dues in so that you will not be dropped from the listing.

If you have paid your dues in recent days, disregard the mark. The mark was effective as of April 4, 1985.

William Gardiner
Membership Chairperson



Thank you for your patience. There were some errors in the "DIRECTORY." It's being corrected. If your address in the directory is wrong, please send us a correction. In future bulletins we will add these corrections, along with new members listings. Check these new listings very closely for factors in your general local. Get together this summer for a picnic and get acquainted. Get a club going! Swap talents, good and bad! Take along your bragging stone!

MIDWEST FACETERS FAIR
GEM & JEWELRY SHOW
MAY 11- 12, 1985

LUCAS COUNTY RECREATION CENTER
MAUMEE, OHIO

SHOW SUMMARY SHEET

Retail Dealers - 14

Demonstration Dealers - 3 possibly 4.

Speakers: William Boyajian of G.I.A., Glenn & Martha Vargas - authors of several faceting books, well-known lecturer Kent Cales, Paul Clifford of the Cleveland Museum, and David Miller, Master faceter.

Exhibits: We NEED yours !!! Non- competitive as well as competitive exhibits for the "case" catagories . We have several cases to loan if you need a case, contact K. Myers. PLEASE HELP by sharing with our show visitors your beautiful exhibits.

Special Exhibits: Glenn & Martha Vargas will have their exhibit, it contains gemstones of nearly every possible faceting material and cut, including several you may never have seen before. August Luchini, former A.F.M.S. Faceting Champion will have his dazzling displays for you to enjoy- they are BEAUTIFUL ! Paul Clifford is bringing from the Cleveland Museum an exhibit of beautiful antique Amethyst jewelry, this is very unique!

Birthstone Exhibits: Our Midwest Faceters Guild under the expert guidance of Dot Loyd, will once again construct the very special Birthstone Exhibit. This exhibit is an exclusive of the Faceters Fair!

Restaurant Facilities: Gladieux has the concession at the Rec. Center and will be providing sandwiches, snacks and beverages. Many eating facilities are within five minutes of the show.

Security: Lucas County Sheriff Auxiliary will handle our security. There will be two armed police on duty around the clock starting at 12P.M. on Friday set-up and through the final take-down Sunday. We will need a number of our own members to augment this security. If you are willing to help check in at the regristration desk to volunteer for duty.

Demonstrations: Dave Miller will head up a group of members who will demonstrate their faceting machines. We are hoping to have every type machine known - old, new, home-made or commerical, contact Dave if you can help.

Set-Up: The Rec. Center will be open at 10A.M. on Friday for workers to begin set-up. First on our adjenda is to cover the exhibit and demonstration area tables and get electrical hook-ups ready(John Gansen is in charge). At 2P.M. set-up begins for exhibits and dealers. PLEASE be on hand to help if you can.

Informal Judging: If you missed the deadline for Classes # 1-6 and wish to have your stones evaluated, bring them to the " informal" judging area through out the show hours.



SPECIAL NOTICE !!

Entries in all classes except # 1 - 6 are still open. Our entries in " case " classes are low at this writing. Look over your gemstones and the rule book and choose a class or two and enter.

Our Board of Directors has voted extra \$ to provide very SPECIAL , Gold, Silver and Bronze Medals for ALL classes-- lets show them we appreciate the chance to recognize more than just the first place winners.

If you don't have enough genstones for an individual entry, combine with friends in your area and enter as a group in Classes # 22, 23, or 24!

Take 6 pictures (including 2 close-ups) and enter the photo contest !

Enter one or six jewelry items ! Enter an Educational exhibit!

Don't be left out on Sunday at the awards ceremony- be there to proudly claim your prize !!!

Kathleen

P.S.

You may bring with you, the entry blank IF you phone to let me know what classes you are going to enter.

Kathleen Myers

517-624-9178 or 313- 686-9871

P.P.S.

It does not matter if you won in '81 or '83 you may still enter the same classes again and defend your title as champion of that class !! Won't it feel good to win !!



Camping - Motels: Plan to spend the weekend with us. Self- contained camping is available on the grounds free of charge. Many motels are within five - ten minutes drive. The " unofficial " headquarters are at the Toledo Budget Inn. Phone 419-865-0201 at 2450 S. Reynolds Road, Toledo, Ohio

Social Evening: At Luke's Barn (about 300 feet from our main hall), after show closing Saturday night will be an informal Guild meeting. All members, dealers, friends, show visitors and guests are invited. Immediately following is a BIG Square Dance with the well known caller " Arizona " Rice. Come prepared for a GREAT time!!!

SUPER GREAT NEWS!!!

Entries for Classes # 1-6 are in the judging process- a total of 69 beautiful gemstones!!! They will be on display at the Fair !!!



Australia versus United States Faceting Challenge

On behalf of the International Competition Committee of the Australian Facetors' Guild I invite facetors of the United States and members of the Australian guild to enter our first international faceting challenge.

My committee believes this competition will strengthen the links between us and provide a means of improving the standard of faceting on both sides of the Pacific Ocean.

Because faceting competition rules and judging parameters vary from one part of the world to another, we have attached to this schedule the rules and judging system to be employed in this competition to enable all competitors to know exactly how the entries will be appraised.

The recent visit of Glenn and Martha Vargas, of California, USA, to Australia did a great to bring this challenge into being and we are delighted that they will act as the American co-ordinators for this first competition.

We invite our American friends to compete and where possible, be with us at Loxton, South Australia, in March 1986 for the presentation of awards.

Barbara Crouch,
chairwoman.



Committee chairwoman, Barbara Crouch.

COMMITTEE:

Bruce Woolmer, Robyn Woolmer, Christine Ferguson and Barbara Crouch.

U.S. CO-ORDINATORS:

Glenn and Martha Vargas.

SCHEDULE AND SUPPLEMENTARY REGULATIONS

COMPETITION CONDITIONS

- 1: This is a competition between the Australian Facetors' Guild and members of faceting guilds of the United States of America.
 - 2: This is a Level 3 competition open to competitors from all Australian states and financial members of American guilds.
 - 3: Entries in this competition will be on display at the 1986 Australian National Gemshow, held at Loxton, South Australia, March 28-31, 1986.
 - 4: American entries should be sent to Mr Glenn Vargas, 85/159 Avenue 66, Thermal, California 92274, who will arrange for them to be sent to Australia.
 - 5: Entry forms and fees must be received by the Competition Committee no later than December 2, 1985. These are to be posted to the International Competition Committee, P.O. Box 448, Epping, New South Wales, Australia, 2121.
 - 6: Actual entries should be received by the International Competition Committee no later than January 15, 1986.
 - 7: All Australian and entries from AFG members in countries other than the USA must be mailed to the International Competition Committee, P.O. Box 448, Epping, NSW, 2121.
- All American entries are to be mailed to Mr Glenn Vargas at address shown above.
- 8: The entry fee will be \$2.00 Aust. or \$2.00 US per competitor.
 - 9: Entries are *limited* to one only per competitor and each entry is deemed to cover the four (4) stones; one in each of the sections named in the schedule. The entry fee will be used to assist with return postage costs.
 - 10: Australian entries will be returned by certified mail if not collected in person at Loxton, South Australia. American entries will be returned to Mr Vargas by registered air mail and he will be responsible for redistribution within the United States.
 - 11: The major trophy, being the Australian Facetors' Guild Cup, will be contested every two years.

The winning country will hold this trophy until it has been won by the other country.

Method of determining the winning country.

- 1: The five competitors from each country obtaining the highest aggregate points for their stones, plus bonus points will then have them totalled.
- 2: The greatest total of these combined points will determine the winning country.
- 3: Bonus points will be allocated as follows:
First place six (6) points; second place three (3) points and third place one (1) point for each of the four compulsory sections.
- 4: Medallions will be awarded for first, second and third places in each of the four sections.
- 5: A personal trophy will be awarded to each of the five competitors who make up the group for the winning country.

PLEASE NOTE: All possible care will be taken with entries, but the committee will not be responsible for any loss or damage during transit, storage or display.

A completed entry form constitutes acceptance of these conditions and agreement to comply with these regulations.

The competition will be judged on the rules and judging features of the Australian Facetors' Guild attached herewith.

SCHEDULE:

Entry in each of the four sections detailed hereunder is compulsory.

Section one: Standard oblong (rectangular) cut. specified size 8mm x 9mm. Specified material: natural topaz (Irradiated material acceptable).

Section two: Step Cut Sphere, Page 33, Diagrams for Faceting by G. and M. Vargas (blue book). Minimum size 15mm. Specified material: Natural colourless quartz (rock crystal).

Section three: Frosted Rectangular Cut, Page 101, Diagrams for Faceting, Vol II, by G. and M. Vargas. (red book). Minimum size at shortest axis, measured at girdle: 6mm.

SCHEDULE (Cont).Section three (cont).

Specified material: Synthetic blue quartz.

Section four: Devil's Triangle Cut: MRD Book of Gem Cuts, Vol III.

Minimum size: 12mm from outside point to point around the girdle.

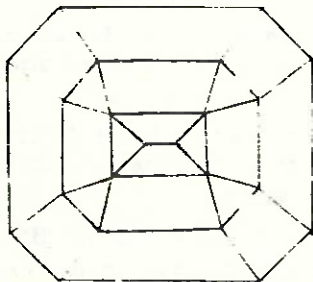
Specified material: Coloured Cubic Zirconia.

All entries will be received in Sydney, NSW, Australia and catalogued and judging will be carried out in Brisbane, Queensland,

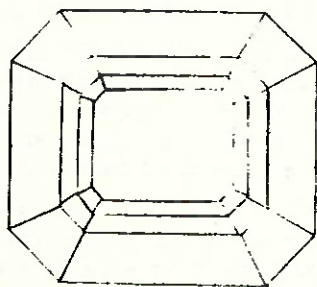
Australia, with no reference to the identity of competitors available to the judging panel.

DIAGRAMS TO ASSIST COMPETITORS

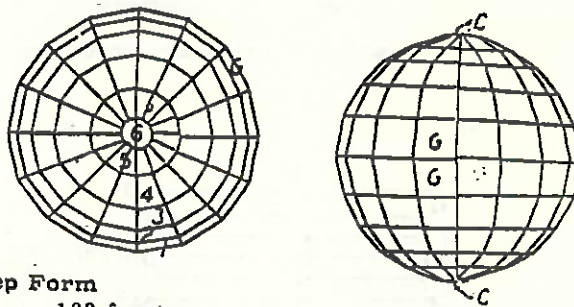
Section one: Standard oblong 8mm x 9mm
(Not drawn exactly to scale)



PAVILION



CROWN

Section two: Step Cut SphereStep Form

162 facets

FIRST SIDE: sixteen-fold symmetry, 32 index, using the eight-fold asterisk and midpoint settings. For larger indexes, see the eight-fold transposition chart.

1- sixteen girdle facets (G) at 80° , on the sixteen equidistant settings.

2- sixteen 60° facets.

3- sixteen 40° facets.

4- sixteen 20° facets.

5- sixteen 15° facets. Use this step only if the stone is to be a sphere.

6- one cap facet (C) at 0° . If the stone is to be a bead, skip step 5, and cut the cap facet large as in the right of the drawing.

POLISH: 1 to 6 as cut.

SECOND SIDE: all facets are cut on the same settings as the first side.

1- align stone by carefully cutting and adjusting (at 80°) facets to match the step 1 facets of the first side. The girdle must be a line meeting perfectly around the stone.

2-3-4-5-6- are repeated as for the first side.

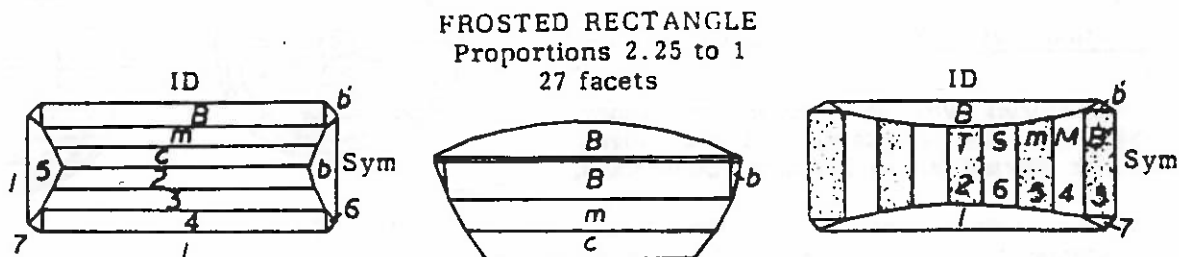
The cutting of a bead or sphere is not as difficult as may be thought.

Each is a derivation of one or more of the usual cuts. The step bead is a derivation of the round step cut, with the culet replaced by a cap facet, or a group of small facets. The brilliant bead is a derivation of the Portuguese Cut, with the culet again handled in the same manner.

(Comment by G. and M. Vargas).

Section three: Frosted rectangle Cut.

To be cut in synthetic blue quartz
with minimum shortest axis of 6m.m.



Contributed by Phillip Youngman.

PAVILION: two-fold symmetry, 32 index, using all asterisk settings.

- 1- four girdle facets at 90° , on ID and symmetry settings and their opposites. (32-16/8-24) These will set the size and dimensions of the stone.
- 2- two culet facets (c) at culet angle, on ID setting and its opposite. (32-16)
- 3- two main facets (m) at culet angle plus 7° , on step 2 settings.
- 4- two break facets (B) at culet angle plus 14° , on step 2 settings.
- 5- two end break facets (b) at culet angle plus 22° , on symmetry setting and its opposite. (8-24)
- 6- six corner facets (b') at culet angle plus 20° to 24° , on the asterisk settings not used in step 1. (4-12-20-28)
- 7- four girdle facets at 90° , on step 6 settings.

POLISH: 2-3-4-5-6. Do not polish the girdle.

This diagram is the rectangular version of the Frosted Parallelogram (adjoining). It is easier to cut than the parallelogram. This cut shows an interesting checkered pattern in contrast to the "X" pattern of the parallelogram.

Mr. Youngman states that he prefers this cut to the parallelogram, but the authors see it just the opposite. Actually, however, it is difficult to compare them as they are quite different.

CROWN: using pavilion settings. Align stone by indexing a long girdle facet to ID setting and place it flat to the polishing-lap. Polish the girdle on the settings as cut. (pavilion steps 1 & 7)

- 1- two break facets (B) at crown angle plus 18° , on ID setting and its opposite. (32-16)
- 2- cut the table (T) at 0° to where its width is about one-fourth of the length of the stone.
- 3- two end break facets (B') at crown angle less 6° , on symmetry setting and its opposite. (8-24)
- 4- two main facets (M) at crown angle less 15° , on step 3 settings.
- 5- two main facets (m) at crown angle less 24° , on step 3 settings.
- 6- two star facets (S) at crown angle less 33° , on step 3 settings. The step 2, 3, 4, 5, & 6 facets should divide the crown into nine equal parts. If not, recut the smaller facets to equal sizes.
- 7- four corner break facets (b') at crown angle plus 4° to 7° , on the fourth setting to either side of step 1 settings. (pavilion step 6)

POLISH: 6-4-7-1. Do not polish steps 2, 3, and 5.

The proportions given above should be adhered to closely. If the stone is much shorter, the checkerboard pattern will be distorted.

As for the parallelogram, this cut is best used with a light to medium colored material.

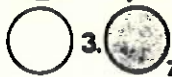
Section four:

DEVILS TRIANGLE 4

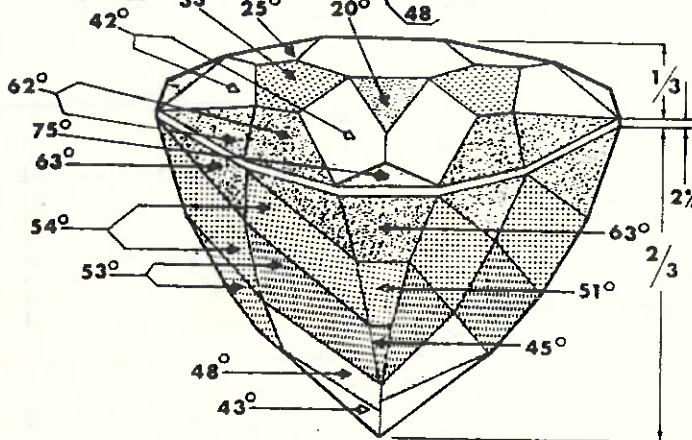
By Betty Scott

Panorama City, California.

Cut Polish CROWN



SIDE VIEW



PAVILION

Cut Polish



Betty Scott, a graduate student from Grieger's and a cutter for less than one year, was asked by us to create a new design. We wanted to call it the DEVILS TRIANGLE. The idea was to show a devils face on the crown and a maelstrom on the pavilion. On her first attempt she accomplished the exact pattern we suggested. The cut is brilliant and scintillates more than any other triangle cut we have yet seen. The original stone was cut from medium blue spinel. We suggest that a light to medium color material be used for this cut. Some cheating is necessary to make facets and points meet. Follow instructions and you will have no trouble. Make adjustments to fit the size of your stone. Original finished was 12 mm. from outside point to point around girdle.

CUT GIRDLE AND SHAPE STONE BEFORE STARTING ON ANGLE FACETS.

GRIND EIGHT CUTS AT 90 DEGS.

INDEX--94-2-30-34-62-66

CUT AND POLISH TABLE EITHER FIRST OR LAST AND ALLOW AT LEAST 40% FOR THE TABLE. THE ORIGINAL STONE WAS CUT BY MAKING THE TABLE FACET FIRST--THEN DOPPING THE TABLE AND CUTTING THE PAVILION. THE CROWN WAS CUT LAST. THE TABLE WAS POLISHED LAST.

CROWN CUTTING ORDER:

1st. THREE FACETS AT 75 DEGS.

INDEX--16-48-80

2nd. SIX FACETS AT 62 DEGS.

INDEX--94-2-30-34-62-66

3rd. SIX FACETS AT 42 DEGS.

INDEX--one at 96--one at 26 (C.R. 2°)

one at 40--one at 56--one at 70 (C.L. 2°).

4th. TWO FACETS AT 25 DEGS.

INDEX--20-76

5th. ONE FACET AT 20 TO 25 DEGS

INDEX--48

6th. TWO FACETS AT 33 DEGS.

INDEX--28-68

POLISH ORDER--USE DIAGRAM AT LEFT (CODE)

USE SAME ANGLES-ADJUST TO FIT.

PAVILION CUTTING ORDER:

1st. SIX FACETS AT 63 DEGS.

INDEX--94-2-30-34-62-66

2nd. SIX FACETS AT 54 DEGS.

INDEX--93-1-29-33-61-65--(C.R. 1/2 deg.)

3rd. SIX FACETS AT 53 DEGS.

INDEX--92-96-28-32-60-64--(C.R. 1/2 deg.)

4th. THREE FACETS AT 48 DEGS.

INDEX--96-32-64--(C.L. 1 1/2 deg.)

5th. THREE FACETS AT 33 DEGS.

INDEX--95-31-59--(C.L. 1 1/2 deg.)

6th. THREE FACETS AT 63 DEGS.

GRIND AS #1 CUT OR FIT AFTER ALL FACETS ARE CUT.

INDEX--16-48-80

7th. THREE FACETS AT 51 DEGS.

GRIND AS #2 CUT OR FIT AFTER ALL FACETS ARE CUT.

INDEX--16-48-80

8th. THREE FACETS AT 45 DEGS.

GRIND AS #3 CUT OR FIT AFTER ALL FACETS ARE CUT.

INDEX--16-48-80

POLISHING ORDER--USE DIAGRAM AT LEFT (CODE)

USE SAME ANGLES-ADJUST TO FIT.

NOTE CHEATING WILL VARY AS TO SIZE OF FACET-

ADJUST TO FIT

OFFICIAL ENTRY FORM

International competition between the Australian Facetors' Guild and members of
faceting guilds in the United States of America.

COMPETITION LEVEL 3

OPEN DIVISION

NAME:

(Please print)

ADDRESS:

.....

..... POSTCODE..... PHONE.....

NAME OF GUILD:

(ALL SECTIONS ARE COMPULSORY)for official
use onlySECTION ONE: Please indicate colour of entrySECTION TWO: Please indicate size of entrySECTION THREE: Please indicate size of entrySECTION FOUR: Please indicate size
and colour of entry.

Please find enclose my entry fee of \$2.00 (USA or Aust) and I agree to observe the
rules of the competition and hereby state that the entries submitted are all my own
work.

SIGNED.....DATE.....

This form complete with payment should be sent by December 2, 1985 to either the
International Competition Committee or to the American co-ordinator, Mr Glenn Vargas.

NO LATE ENTRIES CAN BE ACCEPTED

AUSTRALIAN FACETORS' GUILD

Competition Rules For Faceting

1. DEFINITIONS

NB: Some of these definitions apply only to standard and non-standard facet designs and those novelty designs which possess a girdle. These definitions are marked with an asterisk (*).

* "Above" and "below" in these definitions refer to the normal viewing position for a faceted stone.

* "Axis of the stone" means the line along which (or parallel to which) the stone is normally viewed. In the case of a radially symmetrical stone it is a line drawn from the culet to the junction of two or more diameters. In the case of a bilaterally symmetrical or asymmetrical stone it is a line perpendicular to the junction of two lines joining (a) the two points describing the maximum length and (b) the two lines describing the maximum width, i.e., centre of pavilion tip to centre of table.

* "Crown" means that part of the stone above the girdle.

* "Culet main facets" means those pavilion facets which share the lowest angle or angles to the girdle and meet at the culet.

"Facet" means a flat surface, usually polished, and usually small in relation to the overall size of the stone.

"Facet edge" means the junction between a facet and (a) another facet, in which case the edge is straight; or (b) a curved surface, in which case the edge is curved.

"Faceted stone" means a natural or synthetic gemstone fashioned in such a way that the dominant feature is a number of polished facets. A faceted stone may include curved or unpolished surfaces.

* "Girdle" means the narrow band (consisting of either a series of rectangular facets or of a scalloped curved surface) which outlines the girdle plane at right angles to it. This must be polished.

* "Girdle plane" means the largest plane which can be described cutting the axis of the stone at right angles. It corresponds in shape and size to the plan outline of the stone.

"Meet" means the point at which four or more facets or a minimum of three facets and a curved surface (such as a girdle) come together.

"Man-made gemstone" means a material which owes its existence to the operations of man in a laboratory or factory. It includes both material which has no known natural occurrence as crystals of facetable size.

"Natural gemstone" means a gem material (whether crystalline or non-crystalline) which owes its existence to the operation of the forces of nature, but includes material which has been treated to enhance colour, transparency or some other feature. Untreated organic materials are also included. It does not include materials which would not have been facetable in their natural state, before treatment, e.g., stabilised turquoise, amber, Mt St Helen's Ash, which are regarded as man-made.

* "Pavilion" means that part of the stone below the girdle.

* "Stone" means a faceted stone.

* "Table" means a facet on the crown parallel to the girdle plane.

2. COMPETITION SECTIONS

(a) Standard cuts:

Three standard cuts are recognised:

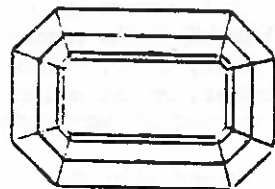
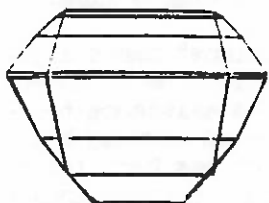
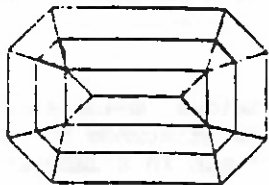
(i) The standard brilliant with 57 facets. Unless otherwise specified the girdle must be continuous. The standard brilliant with continuous girdle has 41 meets; the version with faceted girdle has 73 facets

COMPETITION SECTION (Cont.)

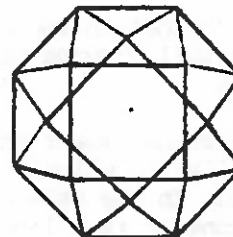
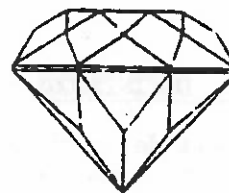
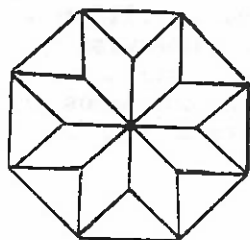
(including girdle facets) and 57 meets.

(ii) The square or oblong step cut with cut corners (i.e. the emerald cut). This cut has 53 facets (including the girdle facets). The square version has 45 meets and the oblong 44.

This cut must conform to the illustration with three rows of facets on both crown and pavilion, each of eight facets, except for the culet mains of which there are four. The height and shape proportions of facets as illustrated are not obligatory.



(iii) The octagonal (or eight-sided) brilliant with 49 facets (including the girdle facets) and 33 meets. This cut must conform to the illustration with three rows of facets on the crown and two on the pavilion, each of eight facets. The height and shape of facets as illustrated are not obligatory.



(b) Non-standard cuts:

Any cut, other than one of the standard cuts, which has a table, crown, girdle and pavilion.

(c) Novelty cuts:

Any other faceted stone not covered by (a) or (b) above, i.e. not having a table and/or a girdle. This section includes spheres, pendeloques, roses and tablets.

3. JUDGING FEATURES:

"Outline of girdle": The accuracy with which the cutter has achieved the required shape. Round stones with unfaceted girdles should be equal at four diameters at 45 degrees.

Square and other polygons should be equal from side to side and corner to corner. Oblong stones should be equal from corner to corner.

Bilaterally symmetrical designs (ovals, pears, marquises etc) must be judged by eye. Major variations in girdle thickness and /or the size of matching break facets may indicate deviations from symmetry.

"Table parallel to girdle plane": Must be judged by eye. Major variations in crown main shape may give indications of serious deviation from parallelism.

"Meets pointing up": By definition a meet is a point at which four or more facets (or facets and a curved surface) come together. A meet fails to "point up" when one or more of the facets terminates in a line instead of a point, revealing either over-cutting or undercutting.

JUDGING FEATURES (Cont).

In judging this feature the judge shall take into account the following factors:

- (a) the consistency which the cutter has achieved; and
- (b) the magnitude of any failure to point up.

Points for this feature will be calculated according to the number of meets that are not pointing up and the degree of outness of these meets. i.e., if 50% of the meets fail to point up, half of the points allocated for this feature will be lost. Additional points may be deducted depending on the degree of outness.

NOTE: The judgement of magnitude is necessarily subjective under judging conditions since no instrument is available to measure "outness".

As a guide, however, the judge should take as his or her limits in judging the failure to point up, the extremes (a) where the failure is barely visible with the permitted magnification, minimum points should be deducted and (b) where the failure is so gross that the error is visible or close to being visible with the naked eye, a higher percentage of points should be deducted.

Where the judge cannot identify any meets as failing to meet up, of course, then the stone must be given full points for this feature.

"Facets uniform": This feature refers to consistency in shape and size of facets in the same series. Thus in a standard brilliant, all the star facets should be equal in size and shape, all the crown mains should be equal and so on. In step cut stones facets which are wider at one end than at the other would lose points.

"Facet edges sharp": This junction between facets should be knife-edged - that is to say, under the magnification permitted, there should be no visible radius and the edge should appear as a dimensionless line. Facet edges which are chipped should be penalised under the feature "chips" and not under this one.

"Facet surfaces true": This feature refers to the complete flatness of facets. Such an ideal may be departed from in several ways. There may be an overall rounding of the facet caused by the interaction between stone and lap. Grooves or ripples may be caused by the polishing process - these should not be confused with

scratches since they are uniformly polished. Finally, ghost facets may be left through incomplete repolishing of the facet at a slightly different angle.

"Scratches": Breaks in the polished surface may be continuous or intermittent.

"Chips": Chips usually occur along facet edges or at the culet. Small chips should be penalised less heavily than large ones.

"Flaws": Flaws may be internal or external fractures, cleavages or parting planes.

"External" means that the fracture cleavage, etc, reaches the surface of the stone, **"internal"** that it is wholly within the stone. An external fracture may be complete (by which is meant that part of the finished stone has broken away leaving a pit or fracture surface or cleavage plan or incomplete).

Because of the low magnification used for judging, a healed or partially healed fracture which the gemmologist would regard as an inclusion, will be judged under this heading.

Penalties under this feature will be influenced by the size, position and nature of the flaw, and the likelihood of the flaw resulting in the destruction of the stone.

An exception is to be made in case of stress fractures associated with inclusions e.g., "zircon haloes" which should be considered part of the inclusion and judged under the heading.

"Inclusions": Inclusions ought not to lose points automatically. The determining factor in applying this judging feature should be whether and to what degree the inclusions interfere with light return in the stone. Thus a garnet with heavy crystalline inclusions in the line between the culet and the centre of the table should be marked down fairly heavily.

On the other hand, a stone with a light veil or feather should score higher. If a small inclusion has been oriented in order to place it close to the girdle of the stone where it will be hidden by the break facets, it should not be penalised.

"Orientation of crown and pavilion facets": In most round and pseudo-round cuts, the meets at the girdle, crown and pavilion, are intended to line up with each other. That is, a line joining the crown main's lowest point and the pavilion main's top point should cross the girdle plane at right angles. Similarly, the facet edges where the pairs of break facets join should coincide.

JUDGING FEATURES (Cont).

Thus, in the standard brilliant (to which the above examples refer) there are 16 points above the girdle and 16 points below which should coincide.

In judging this feature the judge should take into account both:

- (a) the consistency which the cutter has achieved; and
- (b) the magnitude of the error in any pairs of points which fail to coincide.

Points for this feature will be calculated according to the number of points that do not coincide and the degree of their failure to coincide. i.e., if 50% of the points fail to coincide, half of the judging points allocated for this feature will be lost. Additional points may be deducted depending on the degree of their failure to coincide.

NOTE: The judge should take as his or her limits in assessing the worst failure to coincide, the extremes (a) where the failure to coincide is barely visible with the permitted magnification minimum judging points should be deducted, and (b) where a rotation is so severe that (in the case of a standard brilliant, say) the lower points of the crown mains are brought almost half way to coinciding with the junction of the pavilion breaks, a higher percentage of judging points should be deducted.

Where the rotation is so great that the rotation brings the mains more than half-way to coincidence with the pavilion breaks junctions, a standard brilliant should be ruled out of class in a standard section, and in a non-standard or novelty section, the feature should be judged as though the design was intended to have the crown mains coinciding with the pavilion break junctions.

Where the judge cannot identify any failure of orientation, the stone, must of course, be given full points for this feature and calculation is unnecessary.

In the case of a stone with a faceted girdle, if all the meets at the girdle point up, the crown and pavilion facets must be oriented correctly - unless of course, there has been a whole-facet rotation as mentioned above.

"Polish": The quality of light reflected from the facet surfaces.

The degree and evenness of polish of the whole of each facet.

Each facet must be completely polished to a high degree, unless the design is one which requires one or more facets or surfaces to be left unpolished, in which case the evenness of the matte surface must be judged. The remains of the pre-polish surface left on a polished facet will lose points heavily. All facets must be equally well polished to avoid loss of points.

NOTE: Scratches should not lose points under this heading since they are penalised elsewhere.

"Girdle uniform": A continuous girdle should be equally dimensioned at its widest and its narrowest points.

A faceted girdle will usually consist of narrow rectangular facets of the same depth - if this is not the case, the stone will obviously also lose points elsewhere because some meets will not point up, some facets will not be uniform and/or the orientation of some crown and pavilion facets will be out.

In a few designs which call for a faceted girdle, the girdle facets will not be rectangular, but will have a characteristic shape which is wider at one point than at others. These should be judged in the same way as a continuous girdle, i.e., the widest parts should be of uniform width and so should the narrowest points.

"Girdle too wide": A girdle which at its narrowest points is more than five percent of the total height of the stone from culet to table will lose points for being too wide. A girdle which is too narrow to be assessed under permitted magnification is ineligible for standard and non-standard sections.

"Specified size": In competition sections which specify an exact size, points will be deducted from the maximum possible as follows:

For every 0.1mm or part thereof by which the dimension of the stone departs from the specified size, 1 (one) point will be deducted. Thus a stone which is 2mm over or under size will receive no points for this feature.

"Visual effect": Visual effect is the subjective impression resulting from the combination of a number of factors for each faceted stone - the characteristics of the material

JUDGING FEATURES Cont).

(particularly refractive index, dispersion, and colour), the type of cut, the angles used in cutting, the perfection of polish and the size of the stone.

In awarding points for this feature, the judge will compare the entry to his or her visualisation of an ideal stone of this material, type of cut, colour and size and deduct points according to the degree to which the entry falls short of the ideal. Thus, a colourless quartz brilliant will be judged against an ideally cut colourless quartz brilliant, and will not lose points because it does not come up to the brilliance and fire of a cubic zirconia.

Nor will a red or blue stone lose points because it shows no dispersion. But a coloured stone which is too dark to show brilliance will lose points because it has been cut too deep.

GENERAL NOTES

(a) Magnification for judging faceting competitions will be 10X.

(b) All faceting competitions will be judged under a single incandescent lamp only.

(c) The general minimum size for competition stones measured on the shortest axis of the outline shape is 6mm. Competition schedules, may however, specify other minimum sizes if desired.

NB: It is suggested to competition committees that, in order to attract as wide a range of materials as possible, natural stone sections should be kept to a minimum 6mm, or even, in special cases, reduced, although in the interests of judging it is probably not advisable to go below 5mm.

(d) All stones submitted for competition be in a box of appropriate size for display, otherwise they will be ineligible.

(e) All stones must be identified with their material, and if synthetic, that fact must also be stated.

(f) In all cases visual effect will be judged first, in order to exclude the possibility of bias arising from the standard of cutting.

NOTE:

These rules and judging features should be read by competitors together with the schedule for the competition concerned.

POINTS ALLOCATION:

Standard and non-standard cuts:

Visual effect.....	6
Outline of girdle.....	4
Table parallel to girdle plane.....	3
Meets pointing up.....	12
Facets uniform.....	8
Facet edges sharp.....	6
Facet surfaces true.....	6
Scratches.....	10
Polish.....	20
Chips.....	5
Flaws.....	4
Inclusions.....	2
Girdle uniform.....	3
Girdle too wide.....	3
Orientation of crown and pavilion facets.....	8

TOTAL POSSIBLE**100**

Standard and non-standard cuts (specified size)

Points allocation for these sections is identical to the above for standard and non-standard cuts scale with the exception that 20 points are added for "specified size." Note: This scale is to be used only where a specified size is named in the schedule e.g. "Standard Brilliant, 10 mm in diameter."

It is not to be used in sections specifying a minimum size - in which case a stone of below the minimum size is ineligible.

Novelty cuts:

Visual effect.....	6
*Outline of girdle.....	4
*Facets uniform.....	8
*Meets pointing up.....	12
Facet edges sharp.....	6
Facet Surfaces true.....	6
Scratches.....	12
Polish.....	21
Chips.....	5
Flaws.....	4
Inclusions.....	2
*Girdle uniform.....	3

(cont).

POINTS ALLOCATION (cont).

* Girdle too wide.....	3
*Orientation of crown and pavilion facets..	8
TOTAL POSSIBLE	100

* In types of cut where any of these features do not apply, subtract their point allocation from 100 giving a "total possible" of less than 100. Then convert the competitor's score back to 100 by dividing the score by the total possible and multiplying by 100.

PLEASE NOTE:

If you have any difficulty understanding these rules and judging guidelines, do not hesitate to get in touch with your nearest member of the guild rules panel or any member of the competition committee.

AUSTRALIAN FACETORS' GUILD DIRECTORY

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North Qld: George Marshall. (see Qld delegate listing above).

South-east Qld-Brisbane: Ron Madden, 140 Chermiside Road, East Ipswich, Qld 4305. Ph: 07 281 5079.

Alice Springs, Northern Territory: Gary Yates, 9 Lackman Terrace, Alice Springs, NT 5750. PH: 089 52 5447.

Sydney: Jennifer Try (See under listing for president).

Sunshine Coast: Wally Marshall, P.O. Box 587, Maroochydore, Qld, 4558. Phone: 071 43 4013

Victoria: See Piers Foa, under state delegate listing.

Other officers:

Facet Talk editor: Peter Collins. (see list under secretary).

Competition committee chairman: Ron Madden (See under SEQ-Brisbane listing).

Aust-USA competition chairwoman: Barbara Crouch, 41 Mobbs Lane, Carlingford, NSW, 2118. Ph: 02 858 2163

FACETERS A FAIR

Gem & Jewelry Show

MAY 11-12, 1985

**Lucas County Recreation Center
2901 Key Street
Maumee, Ohio**

HOURS:

Saturday — 10-9 p.m.

Sunday — 10-6 p.m.

- Sponsored by Midwest Faceters Guild -

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• SELF-CONTAINED CAMPING FREE •**

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Children under 12
Free with adult**

SPEAKER AND FILM PROGRAM:

Saturday, May 11th

- ***** G. I. A. LECTURES; SPEAKER, WILLIAM E. BOYAJIAN
- 10:00 A.M. will speak on "THE WIDE VARIETY OF GEMSTONES."
- 11:00 A.M. will discuss "GEM IDENTIFICATION: INSTRUMENTS AND TECHNIQUES."
- 2:00 P.M. will show you "INCLUSIONS"- INTERNAL CHARACTERISTICS OF GEMSTONES.
- ***** GLENN AND MARTHA VARGAS, AUTHORS OF BOOKS
ON FACETING
- 4:00 P.M. will conduct a discussion on "WHAT DO YOU WANT OUT OF FACETING?"
with plenty of time after for QUESTIONS and ANSWERS.

SATURDAY EVENING SOCIAL ---- THERE WILL BE A BIG SQUARE DANCE AFTER THE
SHOW, WITH "ARIZONA" RICE CALLING THE DANCES.

Sunday, May 12th

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- 10:00 A.M. will give us help on "HOW TO CHOOSE A CUT FOR THAT GEM."
- 12:30 P.M. KENT CALES, G.I.A. GRADUATE, AND LECTURER, will debate the merits
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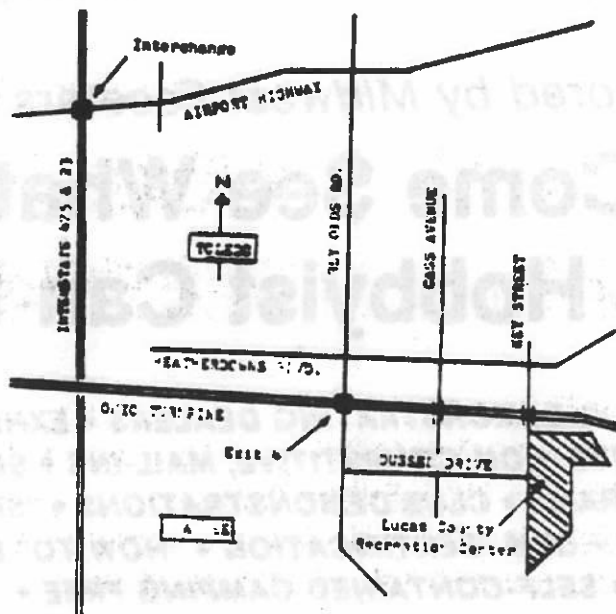


Exhibit Chairman

KATHLEEN MYERS
11630 GERA ROAD
BIRCH RUN, MICHIGAN
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517-624-9178

Show Chairman

HAROLD "ARIZONA" RICE
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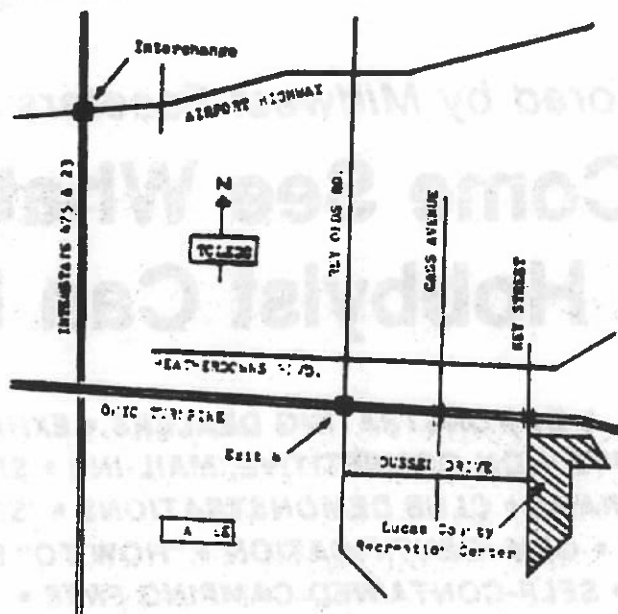


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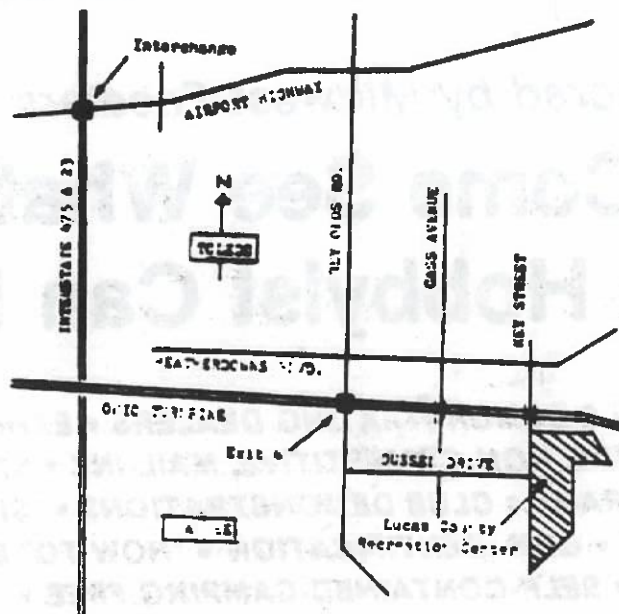


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