

THE MIDWEST FACETER



May 1999
Volume 19 Number 1

The Midwest Faceter

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

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 - * Great Cutting Diagrams
 - *
-

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The Midwest Faceter

Volume 19 Number 3

May 1999

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:
Six weeks prior to the
MWFG meeting.

THE MIDWEST FACETER is not not forwardable. For membership application or change of address contact: **Membership Chairman: Ray Becker 29802 Rosebriar Street, St. Clair Shores, MI 48082-2634.**

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:

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THE AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES

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Special Display

MWFG Website <http://members.aol.com/rdonovansr>

THE MIDWEST FACETER

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From The Rolls...

Ray Becker, Membership Chairman

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.

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PRESIDENT'S MESSAGE

We are going international for our next meeting. We will be in Ajax, Ontario, Canada, which is an extension of Toronto. Once in Canada, whether entering at Port Huron or Detroit, get on Highway 101 (Otherwise known as McDonald-Cartier Freeway) and stay on it until you reach Ajax. Then follow the map in this bulletin until you reach 700 Finley, units 4 and 5a.

We will have a combined meeting with the North York Faceting Guild. We will start the day by having our Board meeting at 10:00, followed by a light lunch at 12:00. At 1:30, we will have our combined meeting. Around 4:00ish or a little later, we will have our major meal of the day. A very fine Chinese Restaurant is nearby, with prices around \$18.00 Canadian, which means around \$12.00 American money.

This is a good time to make this a family affair, by arriving early a day or so and taking in the sights and going to the Toronto Museum, which has a fabulous display of gems and minerals. Hotels are nearby.

There is a currency exchange just after crossing into Canada. You will probably get a better rate of exchange by changing your money there than any other place. The rate of exchange is 35%.

All of the other programs planned for the Guild are on schedule. The annual picnic will be at Bill and Shirley Hortons, on June 19th, while the seminar will be in Flint, August 21, 22, and 23. If you are just starting faceting or you are an advanced faceter, there is something for you. Plan early to attend, as space is limited. The Faceters Show will be held in Taylor, Michigan, and will be conducted November 12, 13, and 14, with set-up being November 11th.

If you haven't placed these dates on your calendar, now is a good time to do it, so you can plan ahead for these oncoming events.

Harold "Arizona" Rice

MAY 1999 MEETING OF MID WEST FACETTING CLUB AND NORTH YORK FACETTING CLUB

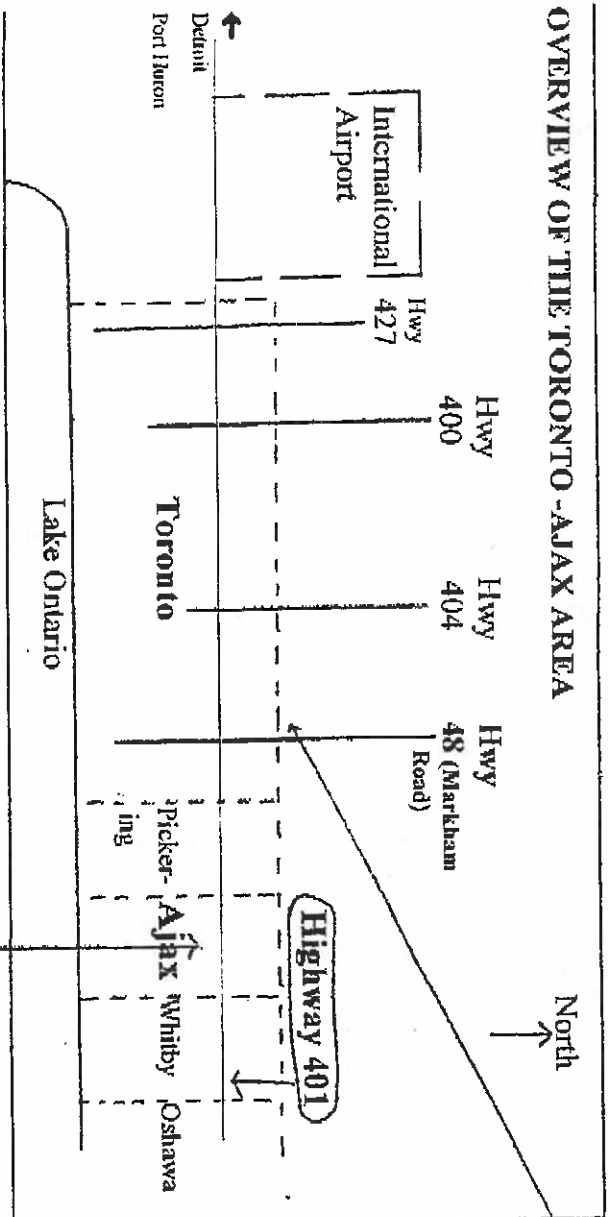
Location: 700 Finley, units 4 and 5a - entry 5a, Town of Ajax, just east of Toronto

Time: Executive meeting of Mid West F.G. - 10:00am

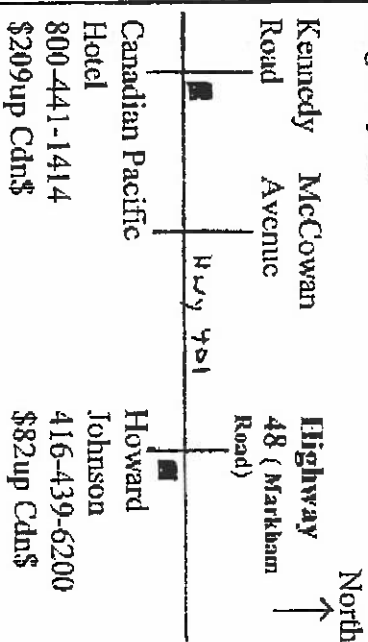
General meeting of two guilds - 1:30 pm

Note: Once in Canada, from Port Huron and Detroit, get onto Highway 401 (otherwise known as McDonald-Carrier Freeway) all the way to Ajax

OVERVIEW OF THE TORONTO-AJAX AREA



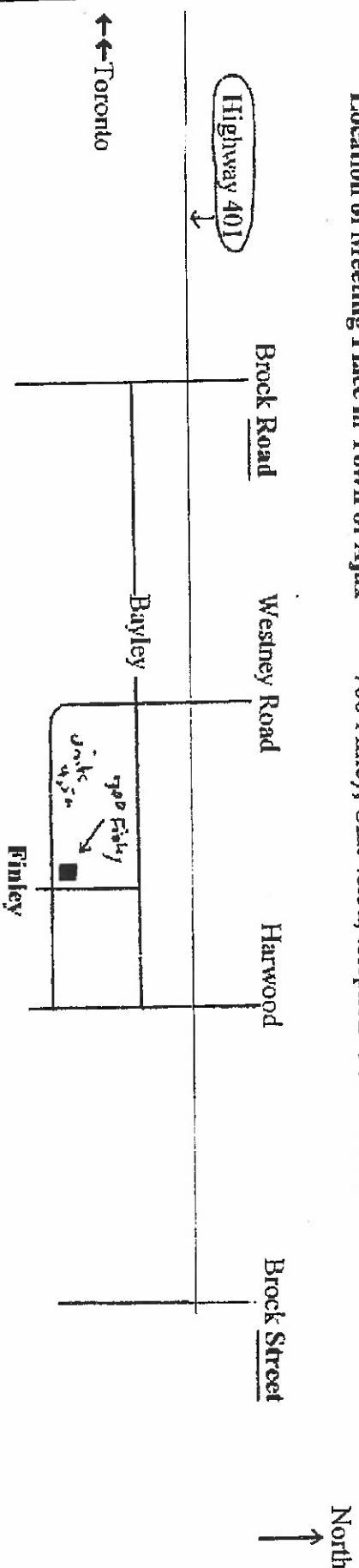
Location of some hotels - located along Highway 401



Other hotels/motels given at meeting

Location of Meeting Place in Town of Ajax

700 Finley, Unit 4&5a, telephone 905-428-3005



COLOR IN GEMSTONES:

By Leonard Sill

From the BEMS TUMBLER

The most striking property of gemstones is color. It is the first thing that we look for as we collect rocks for the hobby. Although color may be the first feature observed, it is possible that it is the least understood, as for how it occurs. The cause of colors in minerals is varied and complex.

The beginning rockhound soon learns, usually from others, that the pretty bright jaspers and other agates we find get their color from minerals.

Red, in iron oxide, is one of the more prominent minerals on nature's mineral palate of colors. It adds the red to jasper and other quartz minerals. It also gives the red and pink coloration to Arizona's Grand Canyon, Petrified Forest, and endless miles of beautiful sandstone.

Many other minerals on nature's color palate add their beauty to our mineral kingdom, thus enhancing our hobby.

Jasper, an opaque red, brown or yellowish-brown variety of chalcedony, is also pigmented by hematite or goethite particles.

Some of our lapidary stones are colored by inclusions. These inclusions may range in size from sub-microscopic to those that may be observed by viewing through a hand held lens. Chalcedony is often pigmented by foreign material. Example, carnelian, prominent in our collecting area. The orange-red chalcedony is pigmented by finely dispersed hematite.

Manganese colored minerals are usually pink or reddish. The pink to rose colored manganese carbonate, rhodochrosite, and manganese silicate, rhodonite, owe their color to the presence of manganese.

Chromium, in conjunction with electrically charged atoms or ions, cause red or green colorations in precious Opal from Australia. The complex play of color is created by diffraction of light from the slight space between microscopic spheres in the mineral.

The sparkling green aventurine from India contains small flakes of bright green chromium-bearing mica which reflects light.

Those who facet encounter complex color variations that are not evident to those who work opaque material. An example of this is Alexandrite gem variety of chrysoberyl. First viewed in daylight and then under tungsten illumination (light from an ordinary light bulb) has an excess of red energy, while daylight is richer in blue rays.

Via Owyhee Gem, 5/98; via The Glacial Drifter, 3/98; from Chips & Tips, 8/96

The tallest known volcano is Olympus Mons on Mars. It is approximately 15 miles high.

DEFINING A PRECIOUS STONE

From FACET TALK. Nov/Dec/1998
via WAHROONGAL NEWS

The following definition of "preciousness" with respect to gemstones, was offered by the famous American gem expert George Frederick Kunz. The definition was originally published in one of a series of interviews Marie Beynon Ray had with Kunz during the early 1920's. Although long out of print, these interviews have been reproduced verbatim in a multi-part Historic Mineral Feature titled "The curious lore of George Frederick Kunz" that was authored by Lawrence H. Conklin. Part 1, which contained this definition, was published in the Fall 1997 issue of MATRIX (A journal of the history of minerals).

MATRIX is a quarterly publication that is devoted to the history of minerals. Its scope is ranging (through American minerals and mineral deposits from the bulk content of most issues). But its papers are usually well researched and illustrated. For the gemmologist who has an inquiring mind, and a fascination for history, this journal is a prolific source of often difficult-to-access information. The journal is published by Jay L. Liniger. Cost of an annual subscription is US \$30 (for four issues). Subscriptions should be directed to Matrix Publishing Company, P.O. Box 129, Dillsburg, Pa., 17474 USA.

NOW TO KUNZ DEFINING "WHY THEY ARE PRECIOUS".

At that time the jewelry profession was strictly confined to precious stones, of which there were but four- the diamond, ruby, emerald and sapphire - and - not a stone but none the less precious - the pearl. These were, as a matter of fact, the only gems that were really seriously considered, although cameos had a certain less solemn vogue, as also the onyx and bloodstone.

Up until the middle of the nineteenth century, coral, opal and tourquise had been considered precious gems, but due to the change in fashion, to the great quantities of inferior material put on the market and to increased understand of the nature of gems, they had by this time been ranked with the semiprecious gems.

Now in my mineralogical investigations I had from time to time come across many beautiful minerals that had all the qualities of gems, being of great hardness, tenacity, brilliancy, transparency, purity and exquisite colouring. Cut and polished, many of these stones rivaled in beauty the precious stones. They were indeed, in every acceptance of the term, gems, even though denied the epithet "precious".

The question of preciousness is an interesting one. Just what is it, I am often asked that ranks a gem as precious? What excludes it? It is no one quality but a combination of several. The opal may certainly lay claim to be as beautiful as the ruby, yet the ruby is precious and the opal is not. The zircon is as brilliant as a diamond, yet not precious. The beryl is as hard as the emerald, yet not precious. The tourmaline is as durable as the pearl, yet not precious. The hiddenite is more rare than the sapphire, yet not precious.

Here are the prime qualities that determine the rank of a gem - all of them possessed by stones ranked as semi-precious. But preciousness is like the beauty of a face, it is not alone a pair of eyes or a lovely complexion that constitutes beauty, but a combination of several qualities.

Therefore it is only when a gem possesses to the nth degree, first hardness - the principle qualification - then brilliancy, then beauty, then durability, then rarity, that it is given the brevet of preciousness. As in a horse or dog, it is a question of the highest number of points. That is why the diamond outranks all other jewels.

DEFINING A PRECIOUS STONE (Continued)

It really possesses the qualities of all other stones - the greatest hardness, an unsurpassed durability and extreme rarity. But, above all, it is its supremacy in hardness that places it beyond other stones. It is the hardest known substance on earth and, as far as we can judge, on any planet.

Rubies and sapphires come next in hardness - they are one and the same stone, except for the colouring matter - and the emeralds rank third, being even though third, yet so hard that nothing will scratch them but a precious stone. The pearl stands alone. The diamond is king, the pearl, queen - with just that touch of feminine frailty that is part of a women's charm. For the pearl is less hard than many even of the semiprecious stones; yet - again like a women - it has as much endurance as the masculine gems.

I have myself tried its feminine durability by the severest tests. I once took a number of pearls weighing two grains each and, placing them on pine, oak, mahogany and rosewood boards, pressing them in with my heel, and none of them was broken or scratched, though they sank clean into all the boards, with the exception of the rosewood, into which they sank only halfway. It is this quality of the pearl that raises it unquestionably above the opal which is more or less fragile.

FROM GEORGE FREDERICK KUNZ (1856 - 1932)

It is with deep sorrow that we report the loss of Bernard Bush. He lost his battle with cancer.

Bernard Bush was not only a Charter Member but one of the few who really worked to develop the Midwest Faceters Guild. He joins his wife Frances, who succeeded him. Heaven has gained another very deserving soul.

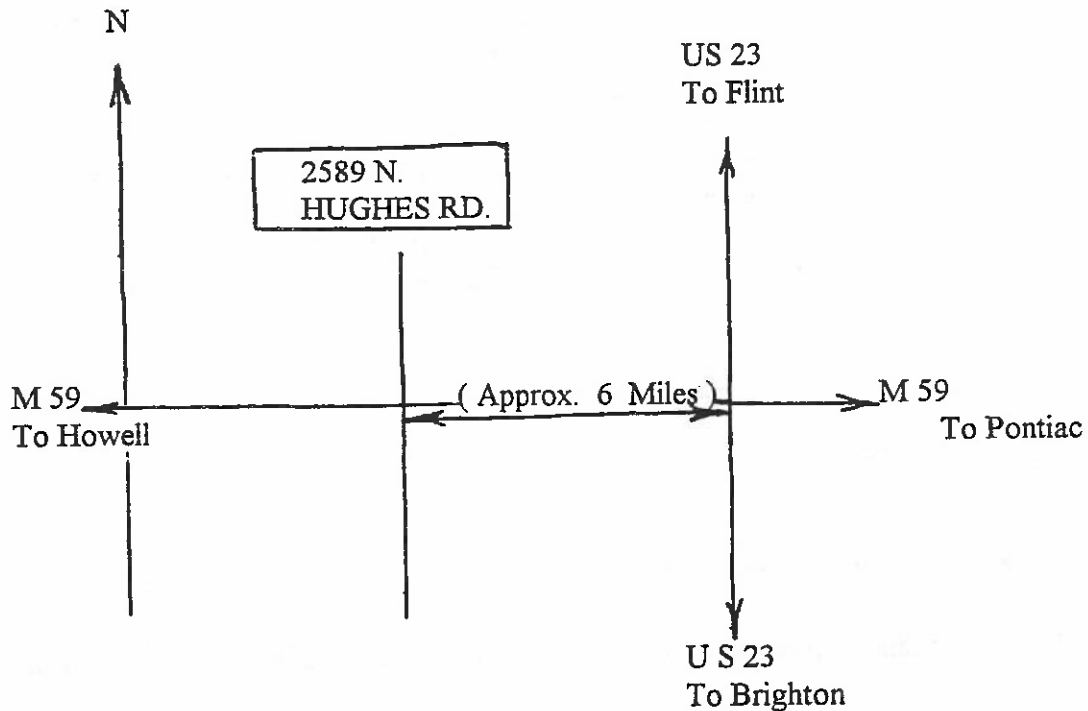
I can't remember a meeting that Frances and Bernard ever missed. Frances was Secretary for as long as I can remember. Bernard has handled the printing and mailing of the bulletin for many, many years. I have fond memories of some of the early bulletin "Bees". We would meet at the Holt's, get out the bulletin, have lunch, and sing around the piano. Great times!!

It will be impossible to imagine the Guild without Bernard. We will miss him. We will also have all of the fond memories of sharing our lives with Bernard Bush.

MIDWEST FACETERS GUILD JUNE MEETING!!!!

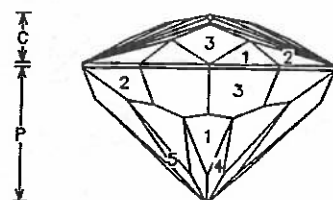
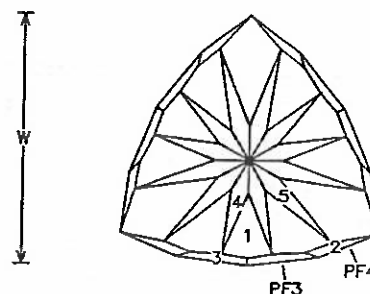
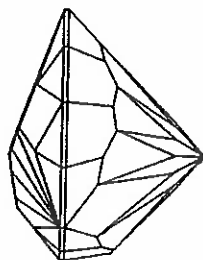
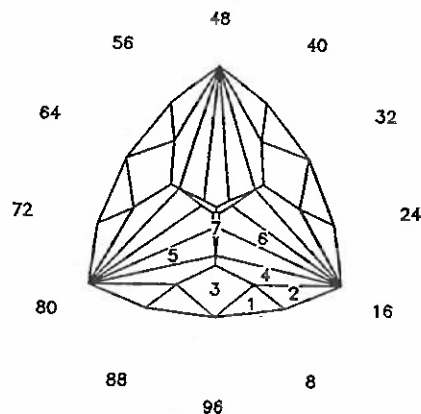
It's not too early to prepare for the June Meeting. It's PICNIC TIME!!! The meeting and picnic will be at the Horton's. Come early, stay late!!!! Bring an appetite, a lawn chair, and hopefully a friend. There will be plenty of good food, beverages, fellowship, and a good program. There is plenty of parking, and a place to stay warm and dry, if there is inclement weather. Take a tour of the shop and maybe come up with some new ideas in lapidary.

The Board meeting will begin at 10:00. There will be coffee and doughnuts. The regular meeting will start at 1:00, after lunch. We encourage all of our members to attend



W.J. Horton
2589 N. Hughes Rd.
Howell, Michigan 48843
(517) 546-2159

The diagram "MAPLE LEAF" by Wilf Ross (North York Faceting Guild) was given to us by Bill Schell. Attached is a "Print Screen" collection of photos from 1 thru 11. These show the cutting of the gemstone, step by step. Attached also is an add to purchase the software to capture these cutting steps, while using GEM CAD. (Note the PF1 and PF2 steps, preform 1 and preform 2)



Maple Leaf MPL.gem Wilf Ross (ONTARIO.GEM)
Raybrite Spot; Table Br= 99 Average Br=87
Angles for R.I. = 1.76

69 facets + 12 facets on girdle = 81

3-fold, mirror-image symmetry

96 index

L/W = 1.005

P/W = 0.538 C/W = 0.200

H/W = (P+C)/W+0.02 = 0.758

P/H = 0.710 C/H = 0.264

Vol./W³ = 0.241

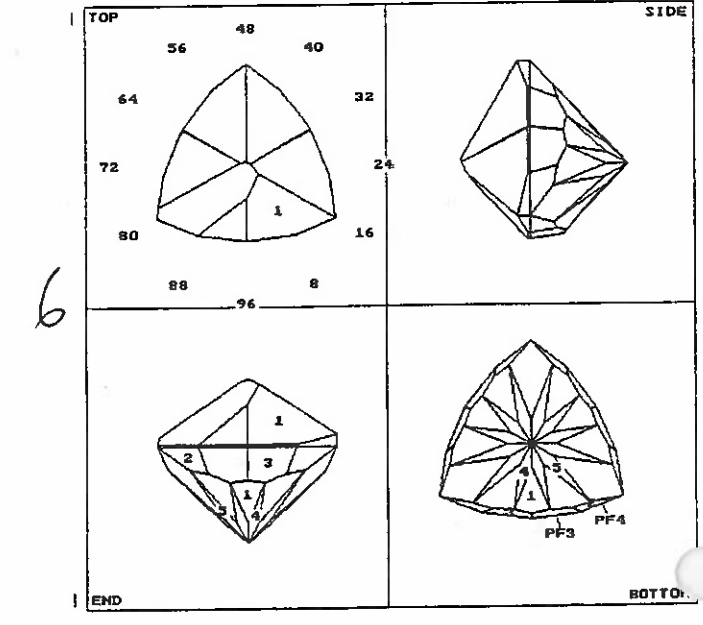
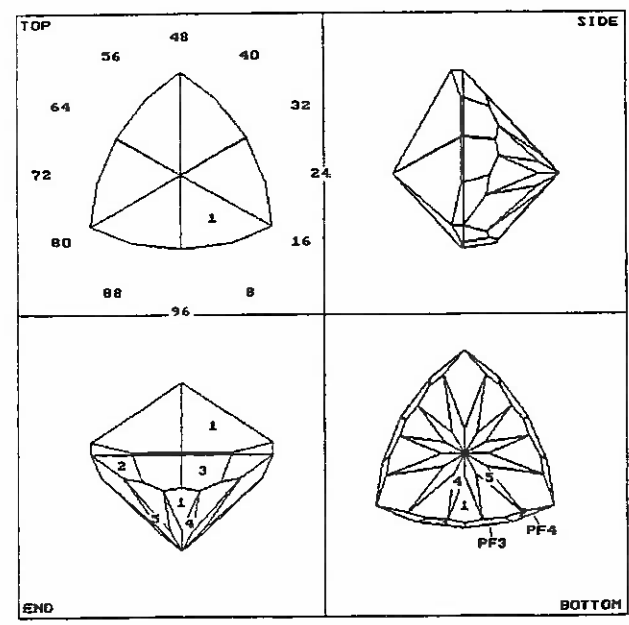
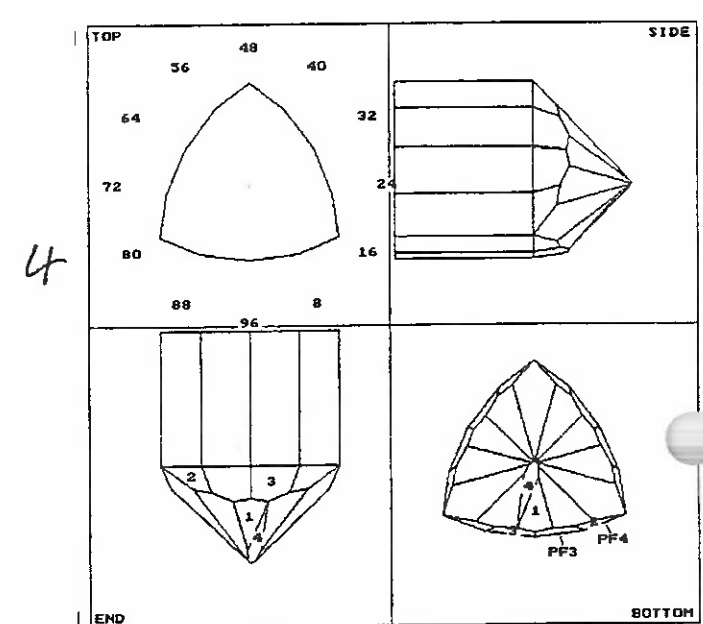
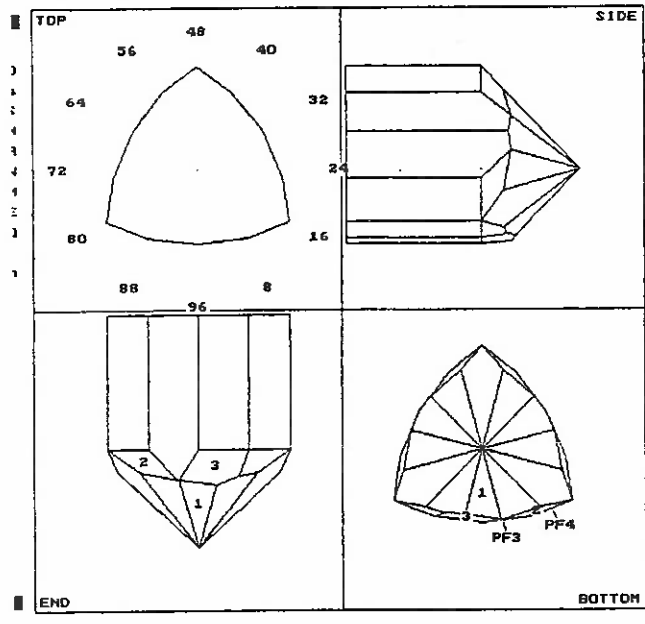
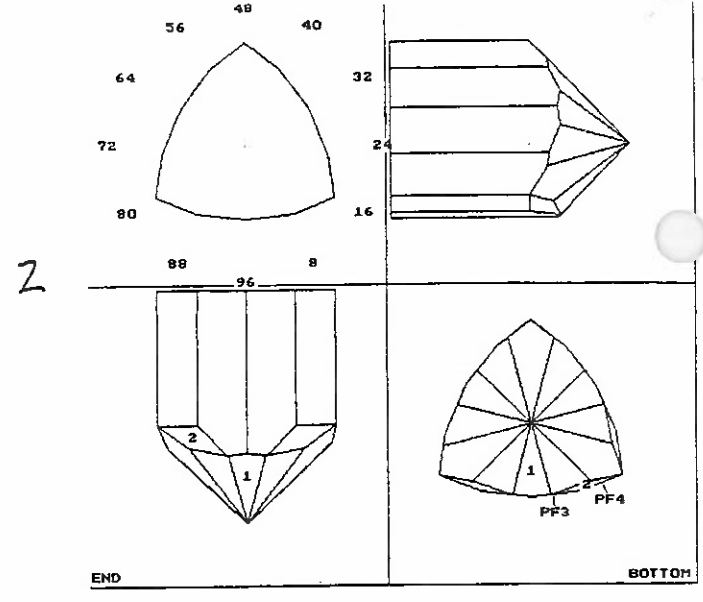
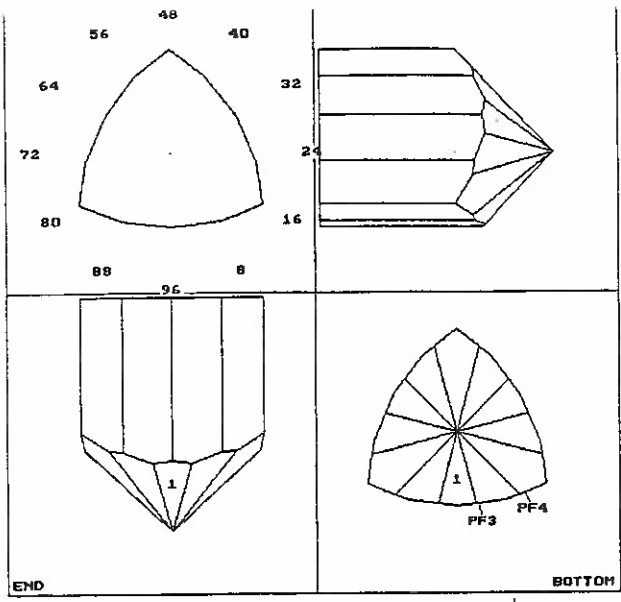
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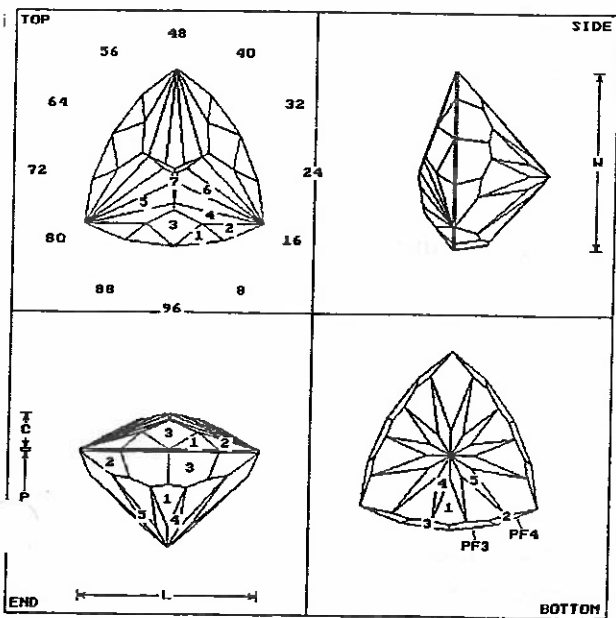
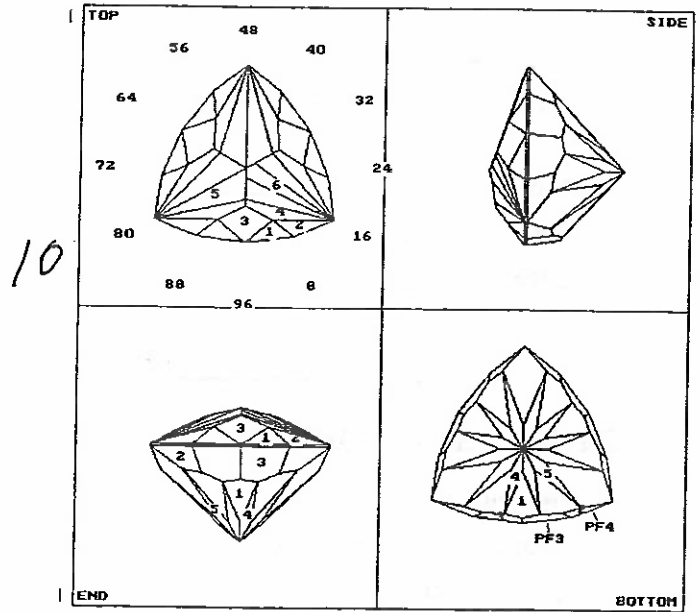
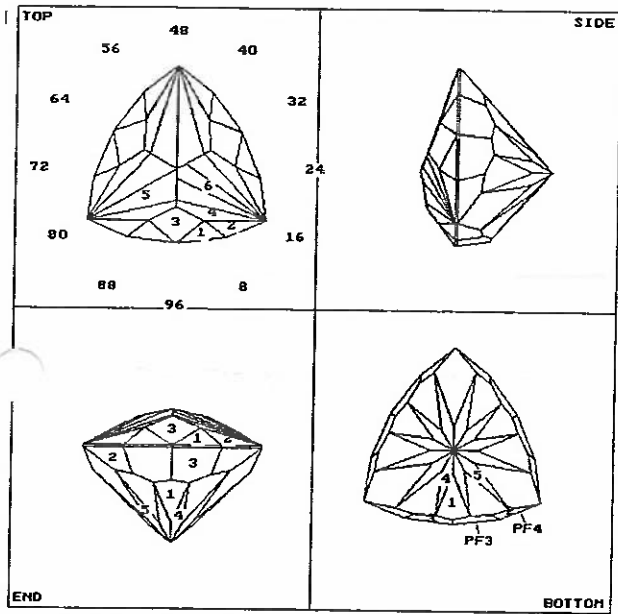
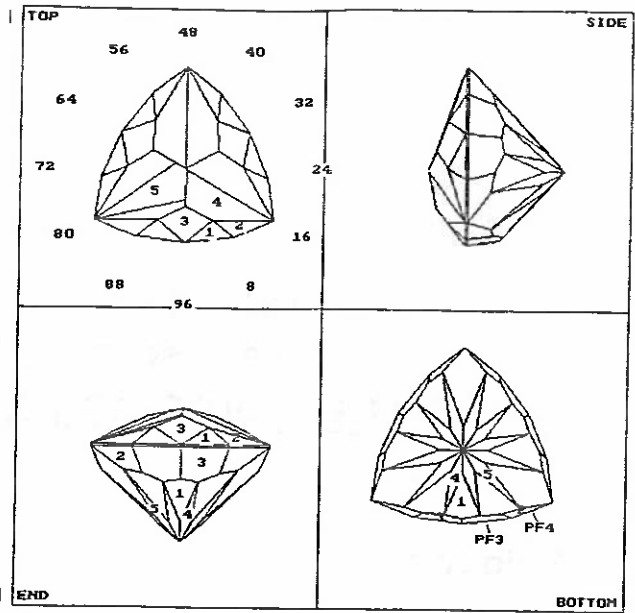
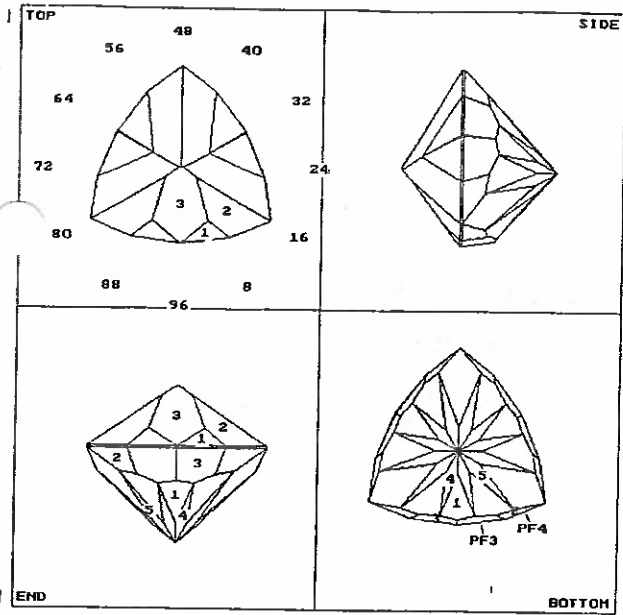
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PF4	90.00	06-26-38-58-70-90
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		48-56-64-72-80-88
2	75.25	06-26-38-58-70-90
3	80.31	02-30-34-62-66-94
4	41.50	04-28-36-60-68-92
5	41.67	12-20-44-52-76-84

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3	38.00	96-32-64
4	20.00	14-18-46-50-78-82
5	19.50	15-17-47-49-79-81
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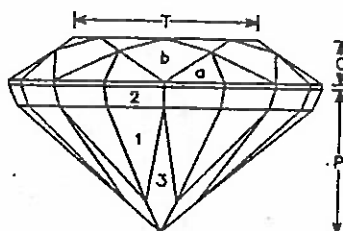
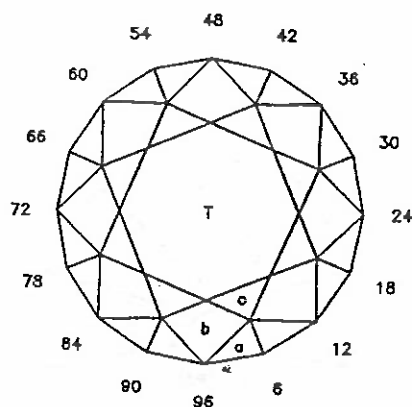
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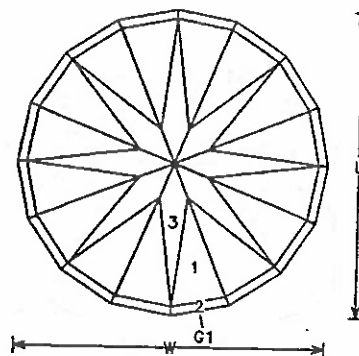
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From FACET TALK Nov./Dec. 1998



RB_CUT.GEM



ROUND BRILLIANT CUT

Adapted from the book

Diamond Cutting, 4th edition

by Basil Watermeyer

Angles for R.I. = 1.76

73 facets + 16 facets on girdle = 89

8-fold, mirror-image symmetry

96 index

 $L/W = 1.000$ $T/W = 0.581$ $T/L = 0.581$ $P/W = 0.478$ $C/W = 0.141$ $H/W = (P+C)/W+0.02 = 0.639$ $P/H = 0.748$ $C/H = 0.221$ $Vol./W^3 = 0.229$

GemRay; COS = 86.0% ISO = 93.0%

PAVILION

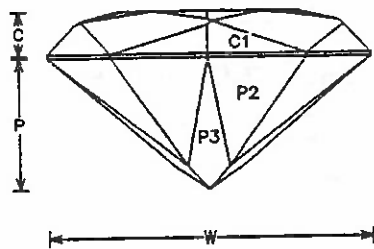
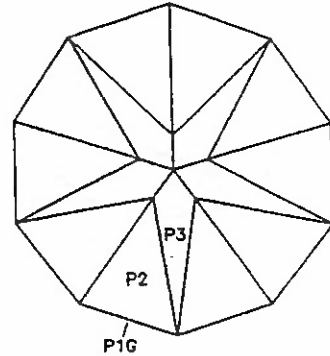
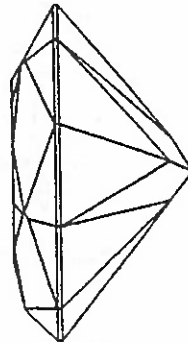
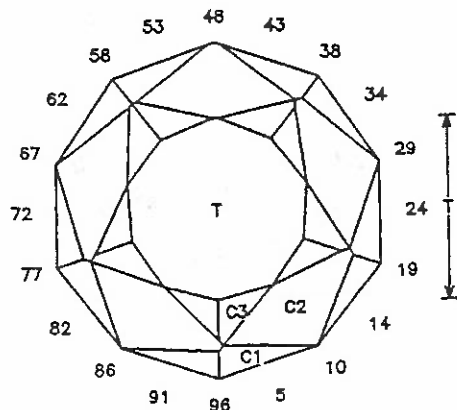
1	42.30	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Cut to TCP
G1	90.00	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Cut to size
2	67.00	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Locate & level girdle
3	41.00	96-12-24-36-48-60-72-84	Meet P1-P2

CROWN

a	40.00	03-09-15-21-27-33-39-45- 51-57-63-69-75-81-87-93	Set girdle width
b	34.00	96-12-24-36-48-60-72-84	Meet A at girdle
c	19.00	06-18-30-42-54-66-78-90	Meet A-B
T	0.00	Table	

The following points should be considered when choosing this design. In some cases color may be strengthened, so may be more suitable for lighter colored material. The 67 degrees step adds considerable weight with little or no loss of brilliance. It can vary up to but not exceed 20% of the total pavilion depth without adversely affecting performance from the gemstone.

From FACET TALK Nov/ Dec 1998



"Five Main Brilliant" (FIVE96.GEM)
 Designed by George Beard, Somerville, Vic.
 Angles for Corundum
 Gemray Cos 81% Iso 92%
 Angles for R.I. = 1.76
 41 facets + 10 facets on girdle = 51
 5-fold, mirror-image symmetry
 96 index
 $L/W = 1.056$ $T/W = 0.573$ $T/L = 0.543$
 $P/W = 0.413$ $C/W = 0.137$
 $H/W = (P+C)/W + 0.02 = 0.569$
 $P/H = 0.725$ $C/H = 0.240$
 $Vol./W^3 = 0.202$

PAVILION

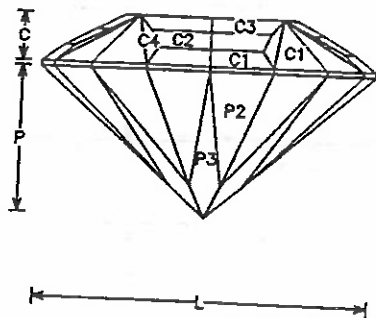
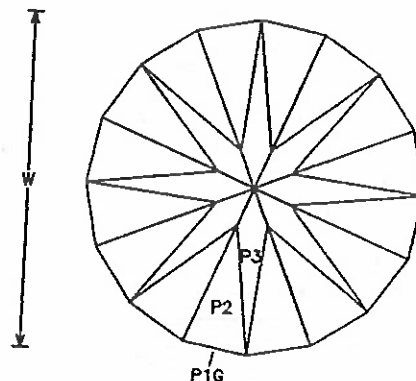
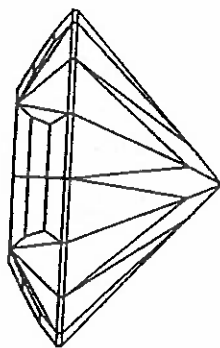
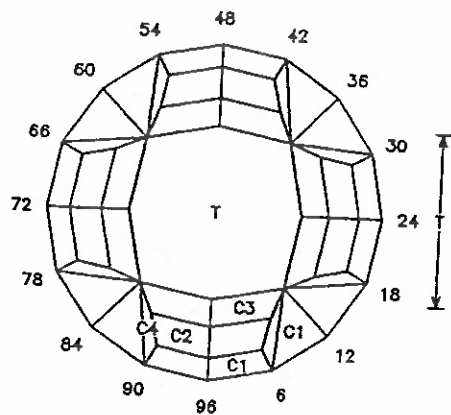
P1G	90.00	05-14-24-33-43-	Size Stone
		53-63-72-82-91	
P2	41.00	05-14-24-33-43-	Establish Girdle
		53-63-72-82-91	
P3	38.00	96-19-38-58-77	Meet Girdle

CROWN

C1	47.50	05-14-24-33-43-	Level Girdle
		53-63-72-82-91	
C2	30.00	10-29-48-68-87	Meet Girdle
C3	12.50	04-15-23-34-42-	Meet C2
		54-62-73-81-92	
T	0.00	Table	Meet C2

Offset Mains

96 Index for those without an 80 Gear
 Polish in Crown Meets for Good Result
 31.3.98.



"Brilliant Variation 10" (BRIVAR10.GEM)
Designed by George Beard, Somerville, Vic.
Angles for Corundum
Gemray Cos 84% Iso 93%
Angles for R.I. = 1.76
65 facets + 16 facets on girdle = 81
8-fold, mirror-image symmetry
96 index
 $L/W = 1.000$ $T/W = 0.516$ $T/L = 0.516$
 $P/W = 0.435$ $C/W = 0.145$
 $H/W = (P+C)/W+0.02 = 0.599$
 $P/H = 0.725$ $C/H = 0.241$
 $Vol./W^3 = 0.195$

PAVILION

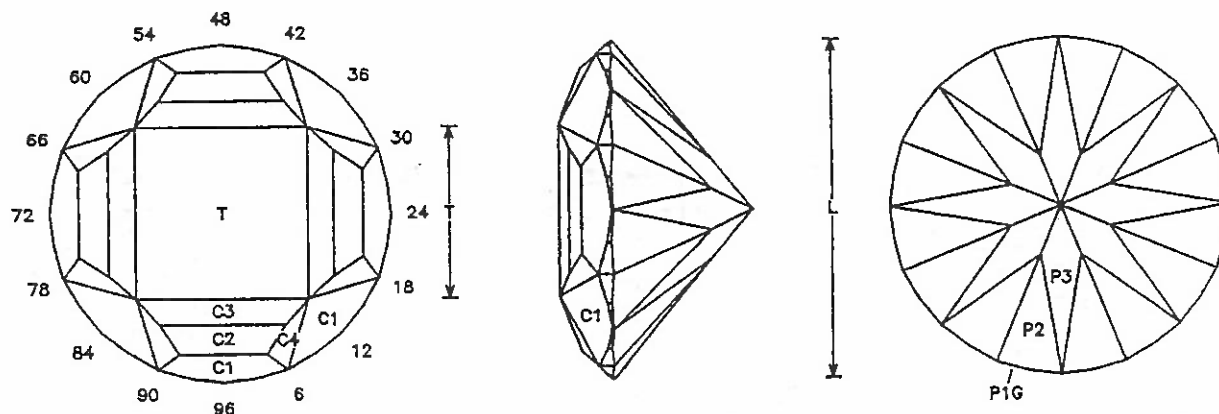
P1G	90.00	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	size stone
P2	42.22	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	establish girdle
P3	41.00	96-12-24-36-48-60-72-84	meet girdle

CROWN

C1	37.02	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	level girdle
C2	30.00	03-21-27-45-51-69-75-93	estimate depth
C3	27.84	03-21-27-45-51-69-75-93	make C1 C2 equal
C4	35.65	08-16-32-40-56-64-80-88	use meet on C1 and girdle
T	0.00	Table	meetC1

angle at C4 will vary
9.5.98.

From FACET TALK Nov/Dec 1998



" Brilliant Variation 11 " (BRIVAR11.GEM)
 Designed by George Beard, Somerville, Vic.
 Angles for Corundum

Gemray Cos 86% Iso 95%

Angles for R.I. = 1.76

49 facets + 32 facets on girdle = 81

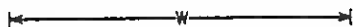
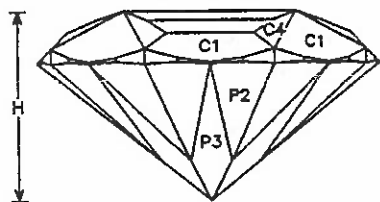
4-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.507 T/L = 0.507

H/W = 0.561

Vol./W³ = 0.197



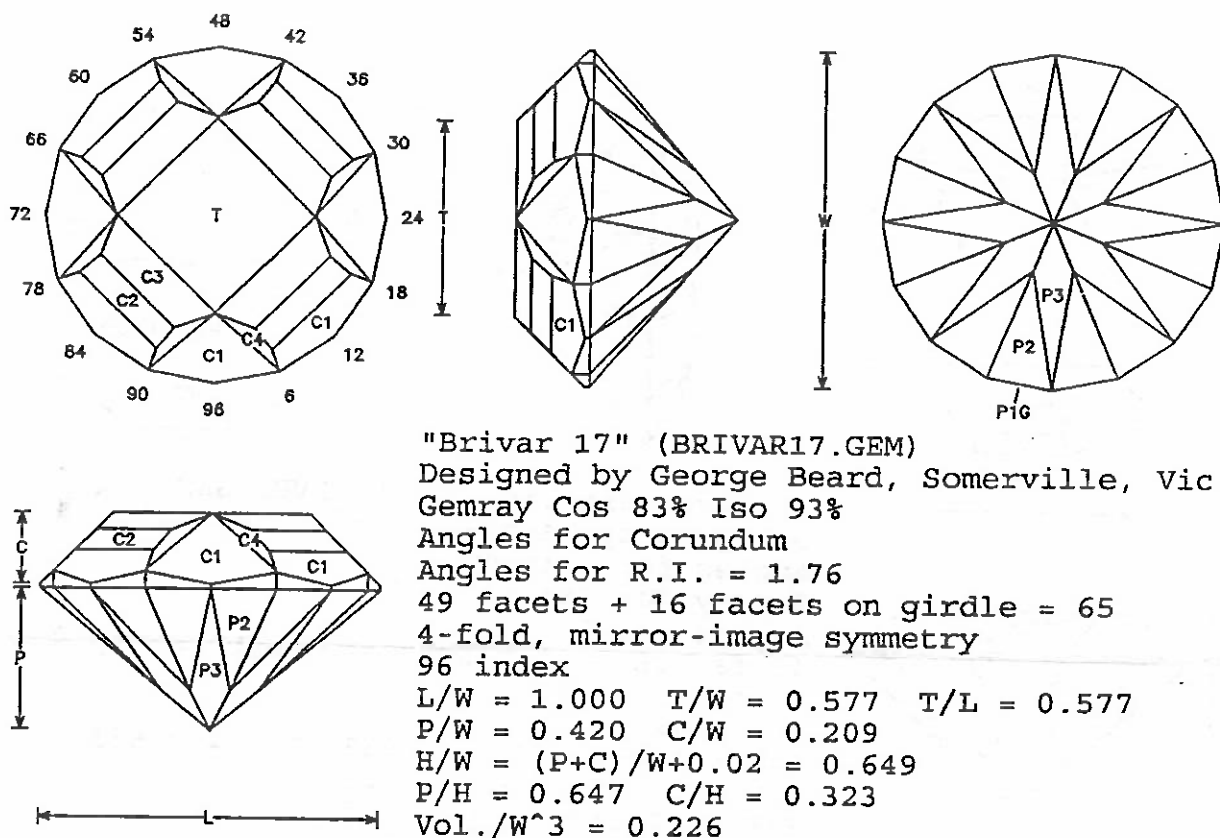
PAVILION

P1G	90.00	02-04-08-10-14-16-20-22-26-28-32-34-38-40-44-46-50-52-56-58-62-64-68-70-74-76-80-82-86-88-92-94	* use rolled girdle *
P2	40.52	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	establish uneven girdle
P3	39.00	96-12-24-36-48-60-72-84	meet girdle and form culet

CROWN

C1	47.00	96-12-24-36-48-60-72-84	establish uneven girdle
C2	22.80	96-24-48-72	estimate depth
C3	19.30	96-24-48-72	make C1 C2 equal
C4	34.80	07-17-31-41-55-65-79-89	use meet on C1 and girdle
T	0.00	Table	meet C1

* angle at C4 will vary *
 13.5.98.



PAVILION

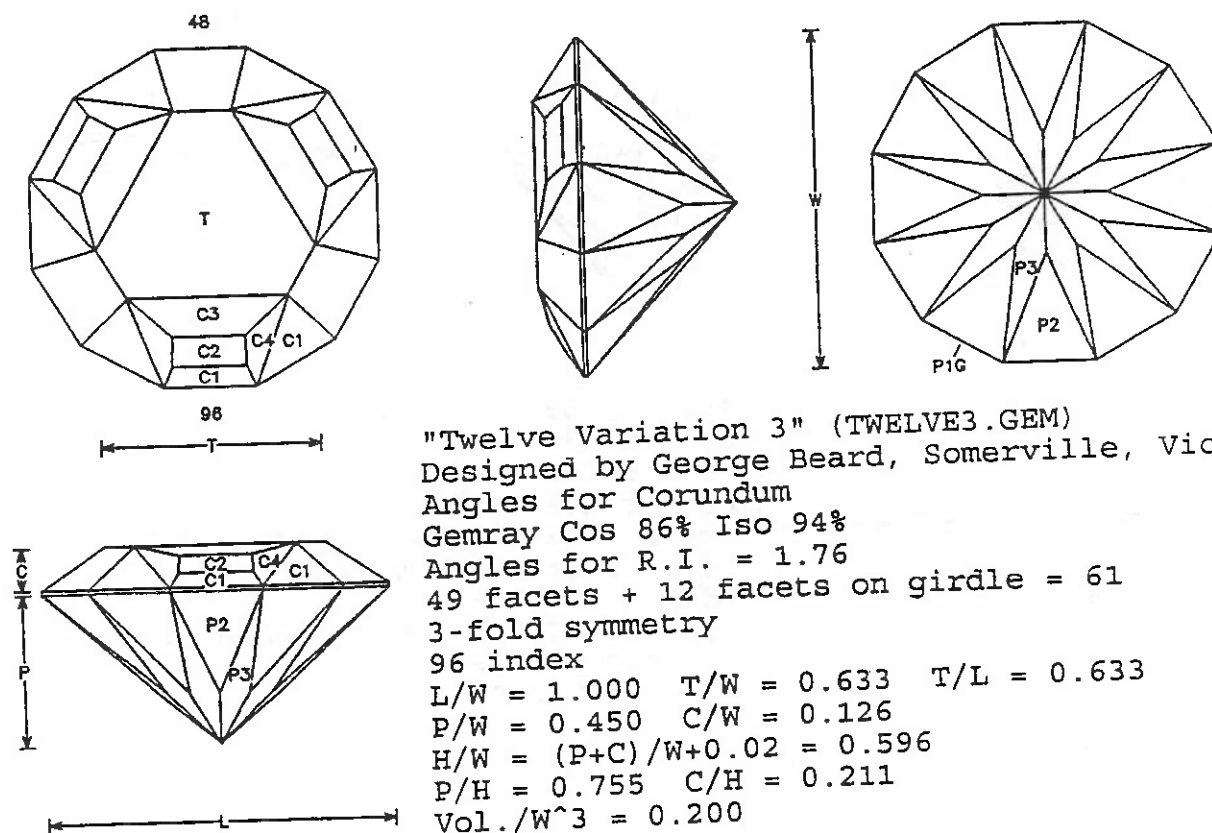
P1G	90.00	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	size stone
P2	41.50	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	establish girdle line
P3	40.00	96-12-24-36-48-60-72-84	meet girdle

CROWN

C1	44.93	96-12-24-36-48-60-72-84	set uneven girdle
C2	37.00	12-36-60-84	estimate depth
C3	23.00	12-36-60-84	estimate depth
C4	42.94	01-23-25-47-49-71-73-95	
T	0.00	Table	meet C1

angle at C4 will vary
16.9.98.

From FACET TALK Nov/Dec 1998



"Twelve Variation 3" (TWELVE3.GEM)
 Designed by George Beard, Somerville, Vic.
 Angles for Corundum
 Gemray Cos 86% Iso 94%
 Angles for R.I. = 1.76
 49 facets + 12 facets on girdle = 61
 3-fold symmetry
 96 index
 $L/W = 1.000$ $T/W = 0.633$ $T/L = 0.633$
 $P/W = 0.450$ $C/W = 0.126$
 $H/W = (P+C)/W+0.02 = 0.596$
 $P/H = 0.755$ $C/H = 0.211$
 $Vol./W^3 = 0.200$

PAVILION

P1G	90.00	96-08-16-24-32-40- 48-56-64-72-80-88	size stone
P2	43.00	96-08-16-24-32-40- 48-56-64-72-80-88	establish girdle
P3	41.00	04-12-20-28-36-44- 52-60-68-76-84-92	meet girdle

CROWN

C1	34.53	96-08-16-24-32-40- 48-56-64-72-80-88	level girdle
C2	30.00	96-32-64	estimate depth
C3	15.07	96-32-64	make C1 C2 equal
C4	32.55	07-25-39-57-71-89	use meet on C1 and girdle
T	0.00	Table	meet C1

* angle at C4 will vary *
 21.5.98.

FACETERS + SEMINAR

MIDWEST FACETERS GUILD



10TH Annual

Faceters Seminar

August 20 - 22, 1999



Mott Community College
Flint, Michigan

Classes offered

Beginning Faceting

Advanced Faceting

Open Class Faceting

Natural Gemstone Faceting

GemCad (Computer Designing)

Lost Wax Casting

Bead Workshop

GemTree Making

Schedule

August 20, Friday	3:00 pm to 7:00 pm	Registration & Setup
	7:00 pm to 8:30 pm	Welcome & Introductions
August 21, Saturday	8:30 am to 5:30 pm	Classes
August 22, Sunday	8:30 am to 3:30 pm	Classes
	3:30 pm to 5:00 pm	Take Down & CleanUp

Class Size Limited - Register Early

Registration required by July 25, 1999

For Registration Forms & Information call or write

(734) 282 3745

tgibbs@compuserve.com

Midwest Faceters Guild

PO Box 483

Wyandotte MI 48192

Information Packets will be sent upon request



SILVER 'N' STONE

FRIDAY	SATURDAY	SUNDAY
MAY 21	MAY 22	MAY 23
5 P.M. TO 9 P.M.	10 A.M. TO 8 P.M.	11 A.M. TO 5:30 P.M.

ALLEN PARK CIVIC ARENA



ALLEN RD. & SOUTHFIELD

313 291-2133 E-MAIL NWHANSCHU@prodigy.net
waorban@juno.com

NEW 1999 SHOW LOCATION ALLEN PARK CIVIC ARENA

	FRIDAY MAY 21 5 P.M. TO 9 P.M.
	SATURDAY MAY 22 10 A.M. TO 8 P.M. SPECIAL AUCTION TO BENEFIT THE SEAMAN MUSEUM OF MICHIGAN TECH 8:30 P.M.
	SUNDAY MAY 23 11 A.M. TO 5:30 P.M.
25th ANNIVERSARY SHOW	
SILVER 'N' STONE 1999 SHOW THEME MIDWEST MINERALOGICAL & LAPIDARY SOCIETY OF DEARBORN	

