

THE MIDWEST FACETER



VOLUME 5, NO. 4
AUGUST, 1984

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

THE MIDWEST FACETER
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MUSEUM BUS TRIP
AUGUST 25, 1984

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ATTENTION GUILD MEMBERS

Art Kalinski, 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 _____

The 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 Arthur Kalinski, 3357 Doremus, Hamtramck, Mi. 48212.

ZIP _____



MAKE AUGUST 25, 1984 A MUST.

Our Guild has grown to well over 300 members. This year has been a fast fantastic year.

I have traveled to new areas, meeting new people. In every area, I have received a great amount of interest in our art of faceting. I have enjoyed hours of pleasure, talking about faceting achievements and failures. Even our failures are teaching us new techniques.

Our next business meeting will be in Elmhurst, at the Lissadro Museum. I sincerely hope that everyone who can possibly take the bus trip, will do so. This will bring together the Michigan, Ohio, Illinois, Indiana, and Minnesota and Wisconsin people to one great meeting.

Russ Kemp will keep the museum open later on Saturday for our benefit. He is prepared to give us a presentation, "Faceting is a Precise Art," by Walter Keen, (National Trophy Winner.) Bring a friend. The bus should arrive approximately 2:00-2:30, at the museum. It will originate at the Franklin Park Mall in Toledo, Ohio. The bus will load up in Toledo at 6:00 A.M., and proceed to the Amtrac Parking Lot, across from the Dearborn Civic Center. The Dearborn Civic Center is just east of the intersection of Michigan Ave. and the Southfield Freeway, on Michigan Ave.

This is our last regular meeting. The next meeting will be our election meeting in October. That meeting will be held in Mount Clemens, Michigan, in the Recreation Center.

Be early with your reservation, so final plans can be made. Contact people are: Kathleen Myers - 517 624-9178, Harold Rice - Work 313 469-6880 Home 313 463-5972, Bernard Bush - 419 729-3407, Bill Horton - Work 313 6855671 Home 517 546-2159.

FIRST RULE OF MIS-INDEXING
WHATEVER HAPPENS, MAKE IT
LOOK AS IF IT WERE INTENDED.

W. J. Horton

TID - BIT
#6
W. J. HORTON

I happened to be talking to Joe Manina, of Lansing, about faceting. This conversation brought us to a fairly common problem. For lack of a better description, let's call this "THE TERRIBLE FOURTH CORNER."

This particular problem occurs in Emeralds cuts, swing type Marquise and Ovals, and some of the unorthodox designs. If you will view figure #1, I have shown an Emerald cut. Now, imagine that you are in the area of roughing, or even in the semi-polish stage. As you progress around the stone, all at once you get to the "TERRIBLE FOURTH CORNER." Look at figure #2. Since the corners didn't join properly, do you recut, cheat backwards, or start over?

The reasons why these "TERRIBLE CORNERS" arrive can be a multitude of reasons. It can be compounded by merely hand torque on the hand piece, variances of tolerance in the lapping plate to the base, or shaft. Whatever the reasons, even if the problem is minimized, several helpful hints will insure a cut of good quality.

First, let's look at figure #3. It makes no difference to the index gear or machine that you use, try to keep the distance from opposite sides of the stone equal, to the centerline. The centerline is the center of the dop in your handpiece. Usually a meter, light, or sound device is used. To be really accurate, use a dial indicator. As in figure #3, keep "d" equal to "d", and "d1" equal to "d1".

Secondly, cut all facets, as in figure #4. Don't cut the corner facets until the semi-polish stage. This will allow all necessary cheating to be completed on the larger facets. Try also to split the amount of cheating to adjacent facets. This will keep the symmetry of the facets in good taste. If you were to cut in the corner facets, and try to cheat them, it would be very visible.

Now, once the necessary cheating has been completed, cut in the corner facets, as in figure #5. All facets will have good symmetry and will meet like they should. Polish and you will have a beautiful gem. This technique works for me and I hope it will work for you and enhance your final results.

Have a good day. Cut a good gemstone.

FIGURE 1

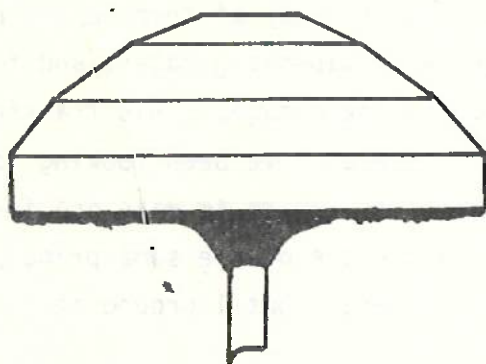


FIGURE 3

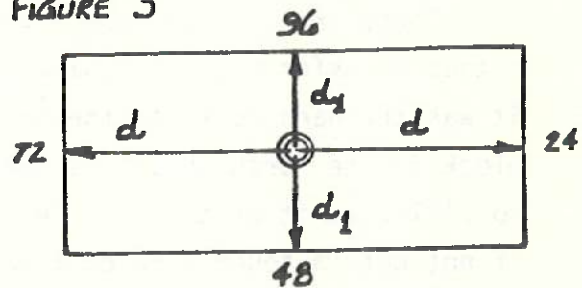


FIGURE 4

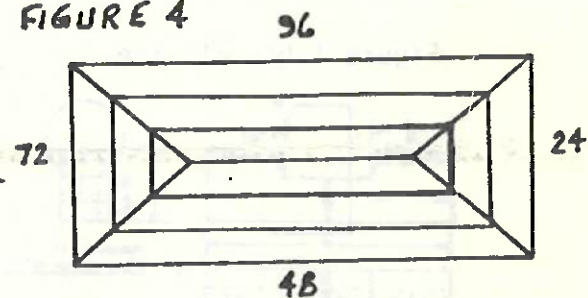


FIGURE 2

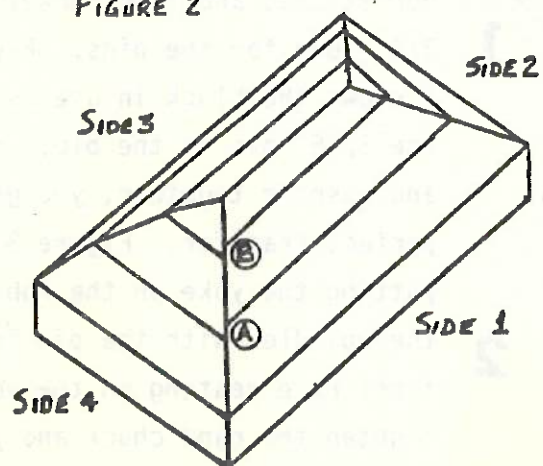
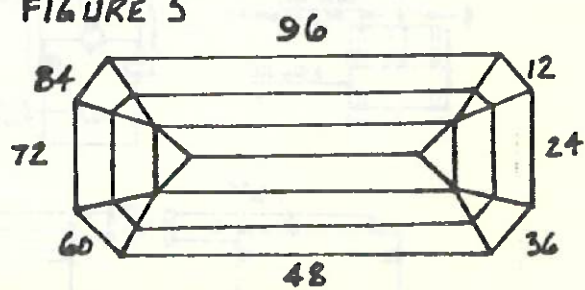
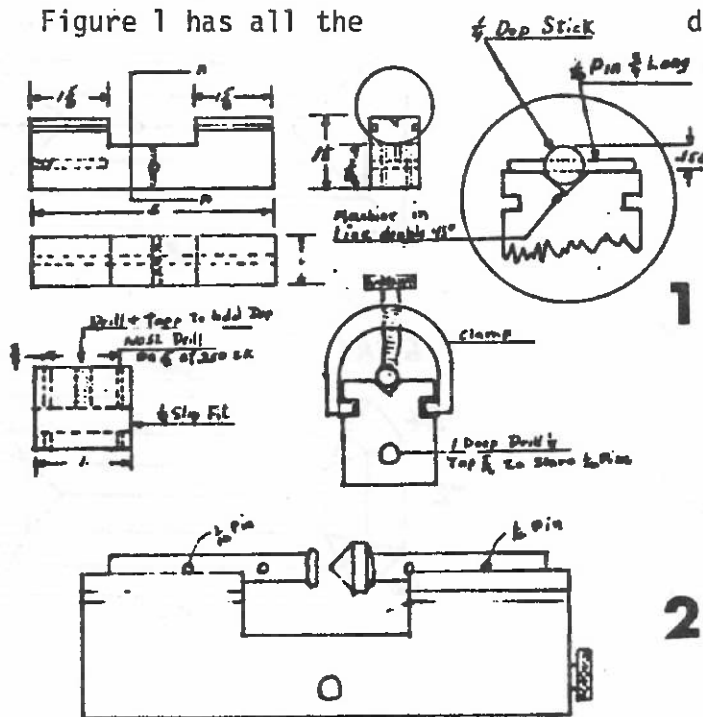


FIGURE 5

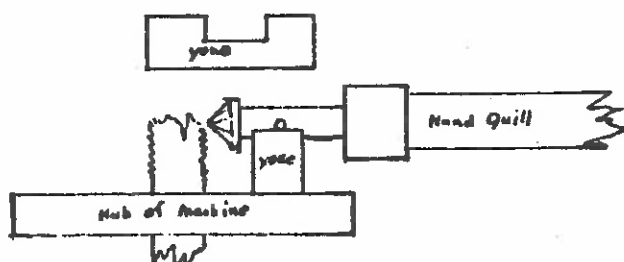


GEM MASTER

Figure 1 has all the



dimensions necessary for manufacturing. This is not only a transfer block, but a drill jig to drill your dop sticks. I use a No.52 drill to drill the dop sticks, and 1/16" dowel pins 3/4" long for the pins. Figure 2 shows the block in use by putting the 1/16" pin in the block holes and pushing together, you get a perfect transfer. Figure 3 shows putting the yoke on the hub of the spindle, with the pin in the front hole resting on the yoke, tighten the hand chuck and you are lined up perfectly.



DAVID B. MILLER

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NOTES ON RECENTLY-REPORTED FACETABLE AND TREATABLE AMETHYST
FROM THUNDER BAY AMETHYST MINE, ONTARIO

During the weekend of 10/12th May.84, a Press Release/Event arranged by Mr. Steve Lukinuk President of Precious Purple Gemstones Ltd. of Thunder Bay (and owner/operator of the original Thunder Bay Amethyst Mine/Panorama) will announce that a significant quantity of faceting-grade amethyst extracted from the Mine has been found to show good "Siberian" (red flash) colours and some of this to respond to heat treatment (as greens and yellows).

Mr. Lukinuk is confident that these new materials can re-awaken public/rock-hound as well as lapidary/jewellery-making interest in Thunder Bay as a source of amethyst.

For many years, the principal interest in Thunder Bay amethyst has been as display-type specimens (including miniature clusters used for costume jewellery). Only rarely has a crystal-tip or the dismemberment of a large specimen produced small pieces of facetable material usually with inconveniently-oriented and thin bands of colour. The writer, and no doubt many other faceters, have cut occasional collector-type stones from Thunder Bay amethyst (that could be authenticated) and many cabochons have been seen, but fine faceted stones have been rare.

Mr. Paul Paulsen of Duncan, British Columbia persisted in his efforts to extract facetable material from a shipment of better-looking crystals acquired from Thunder Bay Amethyst Mine/Panorama and was rewarded by the discoveries that the colour-banding was of varying colour and intensity (which could be enhanced by careful orientation and cut-design) and also.. that some of the material was susceptible to "greening" by heat-treatment, while some would turn fine yellow.

It is understood that Mr. Paulsen has cut approximately a hundred jewellery-quality amethyst stones, of various colours, ranging to very fine "Siberian" red-purple.. as well as some green and yellow stones. An almost flawless 22ct cut amethyst and others of the 7 to 10 carat class have been supplied to Mr. Lukinuk for display at the time of the first publicity release.

Both Mr. Lukinuk and Mr. Paulsen have been exceedingly courteous towards the writer, and the Midwest Faceters Guild, in providing advance information on the newly-recognized material and allowing its release "a week early" on the occasion of this talk to Guild members. Their courtesy however, has gone far beyond this.

Mr. Lukinuk has provided the writer with a typical specimen crystal, weighing 110 grams, for evaluation as cutting material (and with permission to cut it experimentally). This crystal shows strong purple/pink dichroism, typical colour banding/zoning, and areas sufficiently clear of flaws and inclusions to allow cutting one 6-10ct stone and several smaller.

The rough crystal available demonstrates the need for thorough examination of the colours and band distribution in relation to orientation and the type of cut to be employed. The particular crystal has suffered some tip-impact damage and possibly some exaggeration of the internal flaws.

Mr. Paulsen has provided, in time for photographing for display during this talk, a quantity of cobbled faceting rough, several cut stones which display the range of colours which may be derived, and a piece of untreated amethyst together with some small pieces from the same material treated to yellow.

Perhaps the most significant comment that can be made after a limited examination of the amethyst material, before and after cutting, is that, in addition to the strong dichroism, and the definite colour zoning (and differently coloured banding).. this material is notably effected by the wave-length/balance of the incident light and displays what might be classed as a "colour change" similar to alexandrite.. ranging from a flat blue-purple under fluorescent light to a strong pink-violet under incandescent light. This "colour-change" appears to be very sensitive to the intensity of the light and must, initially be considered as a combination of phenomena.

It can be predicted that whatever the consequences of treatment to change colour, the "new" Thunder Bay amethyst will produce some very attractive "hot pink" and Siberian-colour-type stones for the lapidary who is well-enough informed, skilled in orientation and cut selection, and willing to take the time to get the best out of the available material.

The above article and the articles on Iolite and Apatite were graciously submitted by Mr. Donald A. MacFadyen.

Donald A. MacFadyen
62 Ressenger Court
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MIj2B7

IOLITE (Cordierite)

(a) CHEMICAL COMPOSITION: $(\text{Mg, Fe})_4\text{Al}_8(\text{OH})_2(\text{Si}_2\text{O}_7)_5$
a hydrated magnesium(iron) aluminium silicate

(b) CRYSTAL CHARACTERS: Orthorhombic

Habit: often short pseudo-hexagonal prismatic

(c) VARIETIES: pale blue body colour, with dark blue and pale yellow trichroic colours

profuse hematite platelets may give a red colouring to "Bloodshot Iolite" variety

(d) PHYSICAL AND OPTICAL PROPERTIES:

Cleavage: imperfect

Hardness: 7 - 7.5

Lustre: vitreous

Refractive Index: 1.537-1.547 Biref. 0.010 and may vary, B+/-

Specific Gravity: 2.59 with some variation

Dispersion: 0.017

Pleochroism: very strong

(e) CUT: requires orientation to obtain best blue colour; commonly step cut, or mixed (brilliant cuts tend to show undesirable mixing of yellow with blues)

(f) OCCURRENCE: found in river gravels of Ceylon; also in India, Burma, Madagascar and Canada

(g) OTHER INFORMATION:

Incorrectly called Water Sapphire in the East, iolite is the gem variety of the mineral cordierite and that name may be used. Also known as dichroite in the past (which would have been more correctly "trichroite" in consideration of the blue/violet/yellowish and the blue/violet/colourless combinations observed)

Fine gem iolite of high clarity has recently been found deep in the sulphide mines of the highly metamorphosed Manitouwadge district of Northern Ontario. Surficial occurrences in this and other areas of Canada have produced relatively inferior weathered and retrograde material. The fine iolite from Manitouwadge occurs in porphyroblasts and with quartz, at the margin of deep sulphide bodies. Manitoba has similar occurrences.

APATITE.TXT

(a) CHEMICAL COMPOSITION: $\text{Ca}_5(\text{F}, \text{Cl})(\text{PO}_4)_3$ or
 $\text{Ca}_5(\text{F}, \text{Cl}, \text{OH})(\text{PO}_4)_3$
 calcium fluoro- and chloro-phosphate

(b) CRYSTAL CHARACTERS: hexagonal

Habit: long and short prismatic, sometimes tabular,
 usually terminated by pyramidal and basal planes

(c) VARIETIES: colour varieties yellow, green, blue and violet
 also pink, purple and colourless,
 sometimes chatoyant, producing cat's-eye

(d) PHYSICAL AND OPTICAL PROPERTIES:

Cleavage: poor, but gem material may show blocky separation,
 fracture is somewhat conchoidal, smooth and flat

Hardness: Mohs°5 but very brittle

Lustre: vitreous, with very high clarity, or resinous

Refractive Index: 1.634 - 1.637 Biref.003 (very small) U-

Specific Gravity: 3.21 (blue lighter, yellow heavier)

Dispersion: 0.013

Pleochroism: weak, but distinct yellow/green dichroism;
 strong in blue/colourless-or-pale-yellow

(e) CUT: standard step, brilliant and mixed cuts; cabochons;
 °collophane° a massive cryptocrystalline and usually
 impure combination with calcium carbonate, is carved

(f) OCCURRENCE: very-wide-spread occurrence as an accessory in
 all rock types; found in pegmatites and other
 veins, often associated with calcite; gem type
 from Spain (yellow-green °asparagus stone°);
 Norway (blue-green Moroxite); Saxony; Bohemia;
 USA and Canada (green °trilliumite°).. also
 from India and Mozambique; cat's-eye material
 from Brazil and Burma.

(g) OTHER INFORMATION:

Very large deposits of apatite in alkaline rocks
 are an important source of fertilizer.

Shows variable but distinct multiple-fine-line
 spectrum attributed to rare-earth impurities.

More New Members and Corrections.

This listing will bring your directory up to date. These are new members from all over our United States and Canada.

It is really a thrill to see such interest in our Faceters Guild. I believe it tells us that we are indeed doing what faceting needed. We are totally dedicated to education in the art of faceting.

It is my pleasure to welcome your new members to our Guild. Check carefully these new listings for fellow faceters in your area. We will be printing a new directory in the near future. Get together and help each other. You may even get a new faceting club going in your area, now that you have a way to contact each other.

Write to me if you need help. I will try to respond as quickly as possible.

William Horton, President
Midwest Faceters Guild

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JOHN URBAN JR.
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PARMA, OHIO
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A FACETER'S WIFE

It's a lonely life
For a Faceter's wife
As she watches T.V. all alone.
While he dops and he schemes
For the Gem of his dreams,
for the 100 score perfect stone.

He must never be told
That dinner's grown cold,
Or asked to do some household chore.
It might make the lap
Cause some awful mishap,
And scratch up the table - or more!

It must never be said,
"Dear, please come to bed",
Although the clock has struck two.
While the culet is done,
And the mains - all but one,
He still has the girdle to do!

Then disaster appears.
Neighbors cover their ears.
Blue smoke comes from under the door!
He had just finished the top
When it fell off the dop
And got lost in the junk on the floor!

But after the pain,
He'll try it again.
At least he'll never get bored!
He'll try a new cut.
She's alone again, but
This one may win an award.

"So it's all been worth while",
I can say with a smile
As I look at his case in a show.
Each stone passed his test.
He just did his best.
As a Faceter's wife, I should know!

Bettie Johnson



MIDWEST FACETERS WIN !!!

The Midwest Faceters Guild
was ably represented at the
recent Midwest Federation
show and convention in
West Allis, Wi. where two of
our members took top honors.
Dr. James Thompson won the
Faceting Trophy for natural
gemstones and William Horton
won the synthetic gemstone
trophy. Congratulations
from all of us to both of you
EXCELLENT JOB !!!!

" Be happy. It is a way
of being wise."

Colette

Thanks to Vern Johnson

for sharing this with us !!!

BE PREPARED !!!!! GET YOUR EXHIBIT READY THE FAIR IS COMING SOON !!!!!!!

NOTES FROM SAN DIEGO ---AFMS SHOW & CONVENTION



California really knows how to put on a show and it was great-- beautiful exhibits, outstanding programs, excellent dealers and keen competition.

We are proud that one of our Guild members,

Vernon Johnson won the AFMS Faceting Trophy for synthetic gemstones.

Congratulations to Vern from all of us ! Vern is considering a visit to our Fair in May with his beautiful exhibit. We would love to have you Vern !!

We renewed many friendships with outstanding faceters including George & Millie Stefles (originators of the first Faceters Fairs in California) Norm Steele, Robert Long, Bill Cox (current AFMS President), Fred Van Sant, Glenn & Martha Vargas as well as many other outstanding personalities-- it was a great week for "shop talk". We were very proud to be representing the Midwest Faceters Guild !

Next years AFMS Show & Convention will be in Charleston West Virginia and our own Midwest Betty Crawford will be the AFMS President

Our Guild has been ask to help with a faceters seminar for that show.

from Ed & Kathleen Myers



HARDNESS	GEM STONE
10	DIAMOND
9	RUBY, SAPPHIRE
8½	ALEXANDRITE, CAT'S EYE AND YELLOW CHRYSOBERYL
8	TOPAZ, SPINEL
7½	AQUAMARINE, EMERALD AND OTHER BERYL STONES, ALMANDINE GARNET, ZIRCON
7¼	KUNZITE AND OTHER SPODUMENE STONES, PYROPE GARNET
7	JADEITE, QUARTZ STONE (SOME AMETHYST IS 7¼), TOURMALINE
6½	DEMANTOID GARNET, NEPHRITE (THE OTHER JADE), PERIDOT, TANZANITE AND OTHER ZOISITE STONES
6	MOONSTONE, OPAL, TURQUOISE
5	LAPIZ LAZULI
4	PEARL

Several Guild members were on hand in West Allis to man our booth and seminar session. We talked to lots of interested faceters and signed up several additional members--

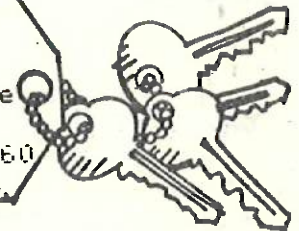
welcome to all of you we are glad to have you join us.

The convention delegates voted to hold the 1987 Midwest Federation at Dearborn, Michigan.



Our editor Helen Murray and Guild treasurer, Larry Murray continue to improve. They greatly appreciate hearing from you.

Helen & Larry
Murray
Lake Park Rest Home
5100 Harroun Road
Sylvania, Ohio 43560



1985 MWF Show July 18-21
Sioux Falls, South Dakota.



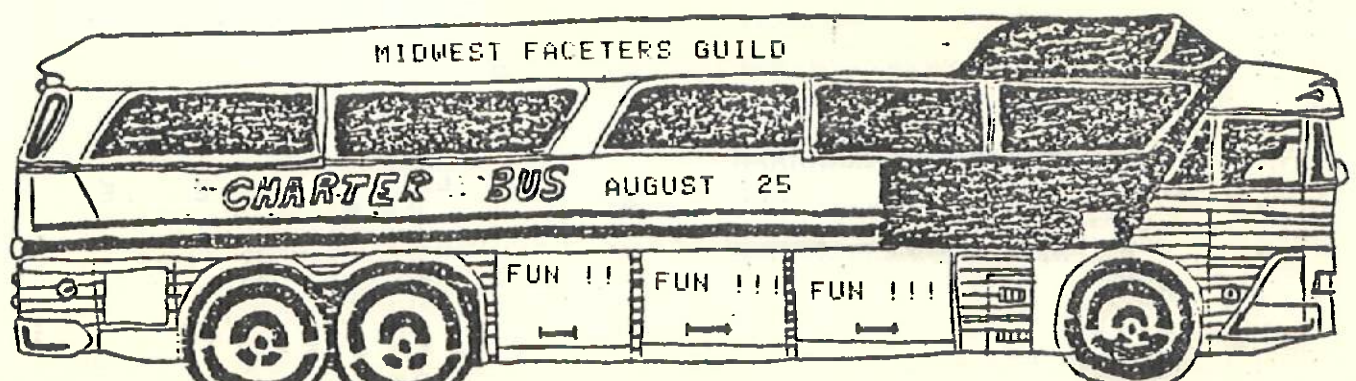
1986 MWF Show July 17-20,
South Bend, Indiana. This
is combined with AFMS Convention!!
Plan now to attend!

*** Did you know ???

The Midwest Faceters Guild
is one of the fastest growing
clubs in the AFMS --
very soon we will be the largest!
All of us sharing our
knowledge and skills
are better and stronger than
one of us...Be proud--
ask your fellow faceters to
join in this sharing!!!

"A hunch is creativity
trying to tell you something."

Frank Casco





Fantastic!!

GREAT NEWS !!!

Glenn & Martha Vargas are going to be with us for the Midwest Faceters Fair Nov 11&12, 1985.

They will be bringing their outstanding exhibits which contain hundreds of gemstones of nearly every possible facetable material.

They will be giving program sessions to share with us their wealth of knowledge and experience. Be in Naumee and meet these famous authors in person !!!



Come Join Us!



A FACETERS LICENSE PLATE. !!!!!

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K
 F L A A W R G T T
 H O N N S
 E S L C E E
 A
 E L

Belgium 03-05-84

Art Kalinsky
Hamtramck
U.S.A.

Dear Sirr,

I found your adress in " Gems and Minerals " and gladly,
i would like to have published following notice in your infor-
mation journal " The Midwest Faceter."

Belgian diamond polisher (Antwerp) wants to corespond with
faceters of precious stones.

Correspondence Languages: English - German - Dutch - Esperanto

Adress: Hubert Magis
Zeelputten, 4
2410-Herentals

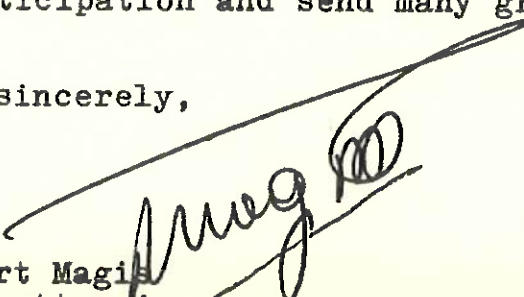
Belgium

Europe

If you can fulfil my request, i would willingly know
beforhand how much it will cost and what way of payment is prefe-
red by you.

I thank you in anticipation and send many greetings
from Belgium.

Appreciative and sincerely,



Hubert Magis
Zeelputten, 4
2410-Herentals

Belgium

Europe

FOR SALE: (BY MEMBER)

New (1969) Ultra Tech V2 - Diamond Spray -
Never been used - Water Tank - Lamp - Dust Cover -

64, 96, 120 Index Gears - Facet Saw Kit - D12A Dop Set -
Diagrams for Faceting Vol. I & II, Vargas -

Facet Cutters Handbook, Soukup - DOP Wax - 4 Prong Holder -
260 Lap & 1200 Dia. Lap - Phenolic, Lucite, & Steel Lap -

CONTACT: Carl E. Rosborough
37 North Brainard
LaGrange, Illinois 60625

FOR SALE: (BY MEMBER)

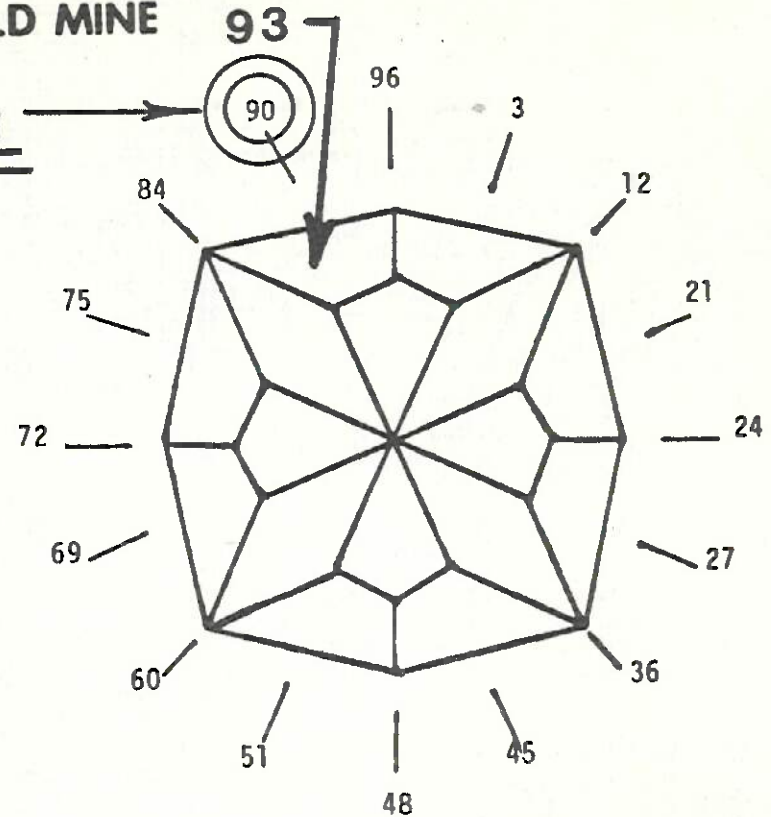
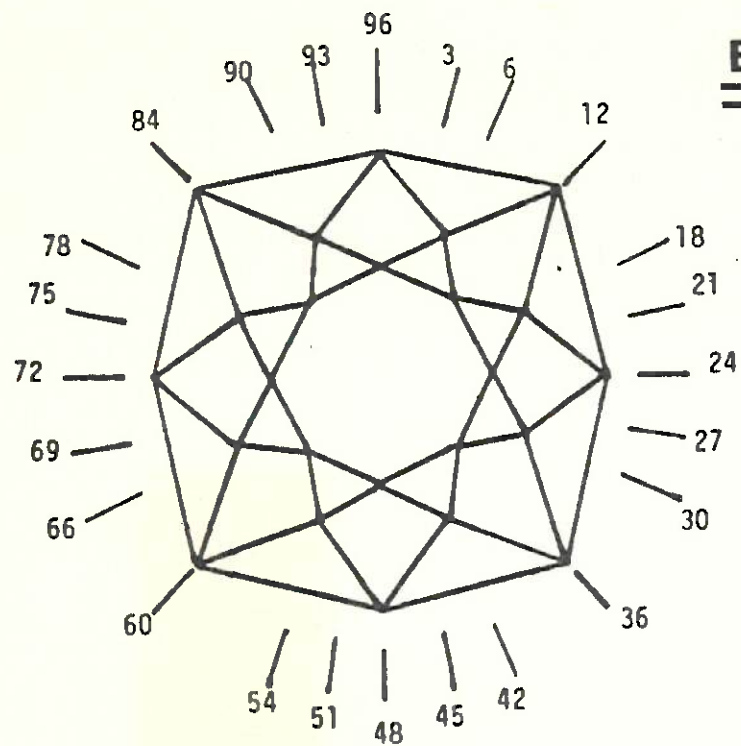
3 Year Old Fac-ette Gem Master (Left Handed) - 2 Qts. Oil -
Snap Ring Pliers & Extra Rings - Belt Drive Conversion -

120, 96, & 96 Index Gears, (Color Coded) -
Fixture for Cutting & Pre-Polish -

CONTACT: Peter A. Finale
7 Fondliller Avenue
Rochester, New York 14625

MODIFIED OLD MINE

ERROR



MATERIAL: AMETHYST

MINIMUM SIZE: 6MM

GIRDLE: FACETED AND POLISHED

TABLE: 60% OF DIAMETER

	CROWN	PAVILION
CORNER MAINS	34	41
CENTER MAINS	45	41
GIRDLE	53	55/57
STARS	27	

PREScribed CUT CLASS 4

LIZZADRO MUSEUM OF LAPIDARY ART

220 COTTAGE HILL
ELMHURST, ILLINOIS 60126
312-833-1616

SATURDAY, AUGUST 25, 1984
GET YOUR TICKET RESERVATIONS
EARLY!!!



- SATURDAY 6:00 A.M. Bus to load at Franklin Park Mall, Monroe St., Toledo, Ohio.
(Behind Toledo Trust Bank.)
- 7:00 A.M. Bus to load at Amtrac Parking Lot - Dearborn Civic Center. This is
on Michigan Ave. East of Southfield Freeway in Dearborn. Park in
Amtrac parking area.
- LUNCH Free with price of ticket - Benton Harbor Area.
- SUNDAY 8:30 A.M. Bus load and trip to Field Museum.
- 11:00 A.M. Bus load and return to Detroit and Toledo.
- 3:00 P.M. Lunch-Dinner - Kalamazoo area.

All Luggage handled, bus ride to and from, Motel, Coffee and Doughnuts on Bus, cost of
Museum, all for only \$87.00. Call early for reservations.

CONTACT: Bernard Bush -419-729-3407
Bill Horton - Home 517-5462159, Work 313-685-5671
Kathleen Myers - 517-624-9178
Harold Rice - Home 313-463-5972 Work 313-469-6880