

THE MIDWEST FACETER



VOLUME 9 NUMBER 2

MARCH, 1988

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

THE MIDWEST FACETER
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Lincoln Park, Mi.
48146

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THE MIDWEST FACETER

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

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MANY MEMBERS HAVE FORGOTTEN TO PAY THIER DUES,
PLEASE SEND DUES TO EITHER Elery Holt
OR William Gardiner SEE BOTTOM
OF PAGE FOR FORM.

How to order your MIDWEST FACETERS GUILD badge:

Send exact name you wish on the Badge
Along with \$5.75 and mail to:

A- FRAME AWARDS
414 South Dort Hwy.
Flint, Michigan 48503



PHONE (313) 767-8881

\$5.75 includes shipping and handling.

MEMBERSHIP INFORMATION for MIDWEST FACETERS GUILD

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

NAME: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

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☐ New membership ☐ Renewel membership

While it is not mandatory, dues should be paid by check when possible and mailed to the membership chairmen at:

William H. Gardiner
MFG Membership Chairman
4518 Sandstone Drive
Williamston, MI 48895

MIDWEST FACETERS GUILD MEETING

PLACE: ROYAL FORK BUFFET RESTAURANT
1851 West Newman Road
Okemos, Michigan 48864
(517) 349-1365

DATE: MARCH 19, 1988

TIME: 10:00 BOARD MEETING & Special Problem Solving
Program for Members.
11:30-1:00 Lunch (See Menu Below)
1:00 Club Meeting
2:00 PROGRAM

MAP ON FOLLOWING PAGEMENU

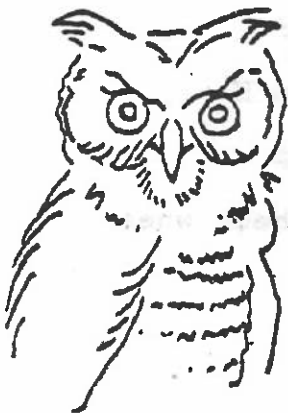
Zesty Barbecue Ribs
Baked Lasagna
Franks & Bake Beans in Brown Sugar Sauce
Golden Fried Chicken
Hot Corn Bread or Muffins with Honey
Soup of the Day

INCLUDES:

Salad Bar, Vegetables, Whipped Potatoes and
Gravey, Hot Cinnamon Rolls, Beverages,
Deserts, and Sundaes.

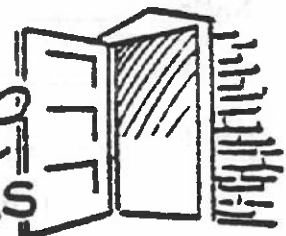
PRICE: \$3.95 also Senior Discount

Dinner after 4:00 p.m. is \$5.25 with Roast Beef added to menu.

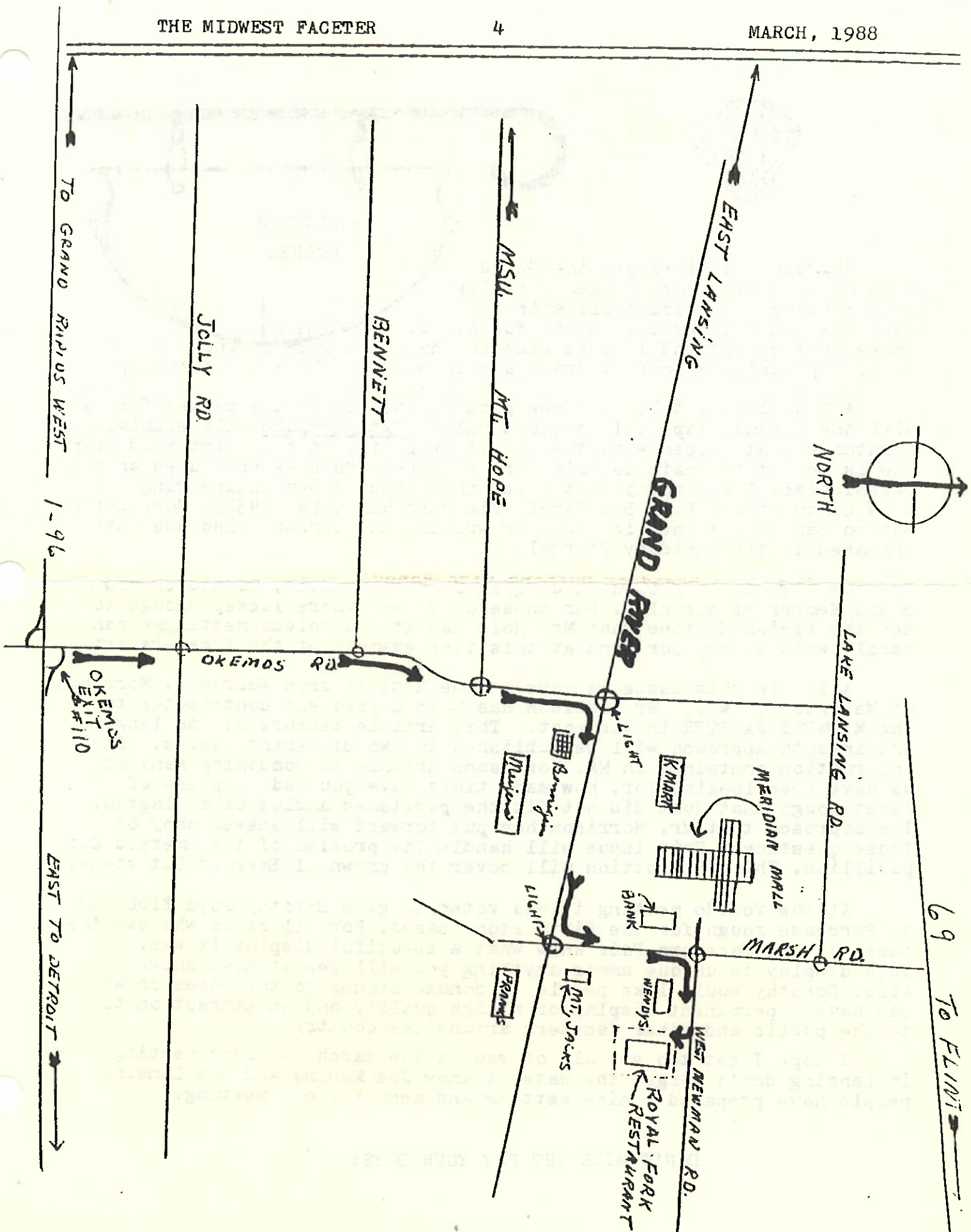


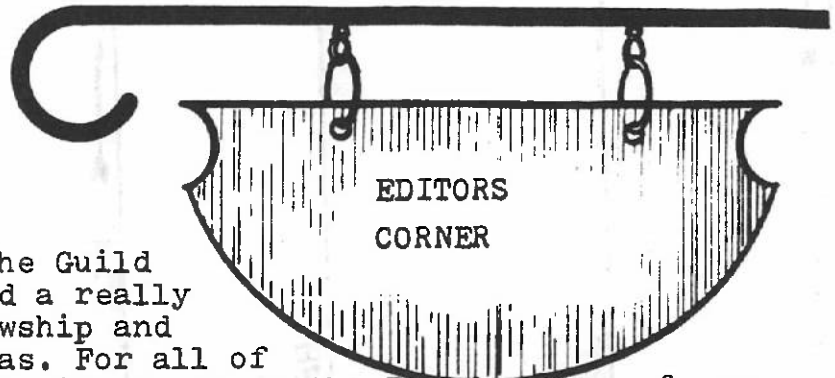
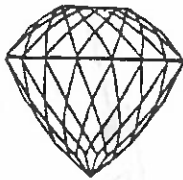
The
WISE OLD
OWL says...

Welcome
NEW MEMBERS



BRING A FRIEND





For those that missed the Guild meeting in Toledo they missed a really fine meeting with good fellowship and many new and interesting ideas. For all of those that did attend I would like to thank the Toledo group of our club, especially Bernard & Frances Bush who set the whole thing up.

Art Kalinski, told of a new product that is on the market for use with the ceramic lap. this product called Extenderlube will eliminate scratches that happen with the use of graphite. In fact, Art said graphite is one of the main contributors to fine scratches when used on the ceramic lap. The company that makes this product Gem Engineering 1714 Linda Drive, P.O. Box 23832, Pleasant Hill, Ca. 94523. More information can be obtained from Art or writing the company also ads have appeared in the Lapidary Journal.

We have in this issue a diagram from Elery Holt, Treasurer and Board Member of our club. For those of us who where lucky enough to see the finished stone that Mr. Holt had at the Toledo meeting we can hardly wait to try our hand at this fine example of the faceters art.

Also, in this issue we have a fine article from Warren F. Morrison of Watertown, Wi.. Mr. Morrison has been a frequent contributor to the MIDWEST FACETER in the past. This article because of its length and indepth approach will be published in two different issues. The information contained in Mr. Morrisons article is something many of us have been looking for, how many times have you had a piece of facet rough that just did not fit the published angles of a diagram. The approach that Mr. Morrison has put forward will answer many of those questions. This issue will handle the problem of the Emerald Cut pavillion. The next edition will cover the crown of Emerald Cut stone.

At the Toledo meeting it was voted to give Dorothy Loyd \$1000.00 to Purchase rough for the Birth stone cases. For all of us who saw the cases at our Faceters Fair know what a beautiful display it was. This display is unique among anything you will see at most shows. Also, Dorothy would like people to donate stones to the cases so we can have a permanent display of a high quality and an attraction to to the public and other faceters around the country.

I hope I get too see all of you at the March 19, 1988 meeting in Lansing don't forget the date. I know Joe Manina and the Lansing people have prepared a nice setting and menu for our meeting.

DON'T MISS OUT PAY YOUR DUES!

1987 MIDWEST FACETERS FAIR
COMPETITIVE EXHIBITORS

Class 1- Scott Thomas -Jr.- 1st Class 2- Don Thomas-Novice-1st,
Samuel Kupietz-Novice-2nd. Class 3- Ben Koepke-Novice-1st.
Class 5- Lou Darby-Advanced-1st. Class 8- Ralph Whitney-Master-1st,
Joseph E. Scott-Master-2nd. Class 9- Joseph E. Scott-Master-1st,
Jerry Lord-Master-2nd. Class 10- Joseph E. Scott-Master-2nd,
Paul C. Billett-Novice-1st. Class 12- Bill McVety-Master-1st
Class 13- Joseph E. Scott-Master-1st. Class 15- William J. Horton-Master
1st. Class 20- Joseph E. Scott-Master-1st, William Gardiner-(c9)-Master
2nd, William Gardiner(C10)-Master-2nd, William Gardiner(C8)-Master-3rd.
Class 21- Max J. Schultz(C6)-Master-1st, Max J. Schultz(C5)-Master-2nd.
Class 23- William J. Horton Master-1st. Class 25- Rockport Faceters
Society-1st. Class 26- Rockport Faceters Society-1st

132 Stones entered, 21 Individuals, 2 Society entries,
4 Jewelry entries(individual Pieces), 2 Cases of Jewelry
1 Photography entry. GOOD JOB BY ALL!

ROCKHOUND FIELD TRIP TO BE RAFFLED OFF

Raffle is limited to paid up members only, one ticket only per
member. Price of the tickets are \$1.00. From Thomas Gibbs, 622 8th St.
Wyandotte, Michigan-48192.

Trip is to the Pollard Jade mines, Rawlins, Wyoming. 1 week trip,
Between July 15 and Aug. 31. You provide your own transportation. they
supply room and board, Guided tour to Jade fields & to agate fields.
Don't delay send for your ticket now. Drawing to be held at our May
Meeting. Trip includes family to share one room.

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MWFG MEETINGS FOR YEAR

March, 19, 1988 Lansing Michigan

May-14, 1988 Shelby, Mich. Field trip To ICT. More info. later.

June-25, 1988 Taylor Michigan, Southland Mall.

October-1, 1988 Annual Meeting, Mt. Clemens, Michigan.

FOR SALE

Graves Faceter.....\$350.00

Call 546-8817 Jim Schlottman, Royal Oak, Michigan

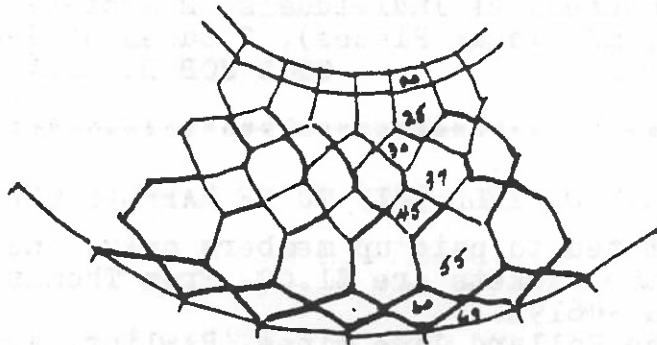
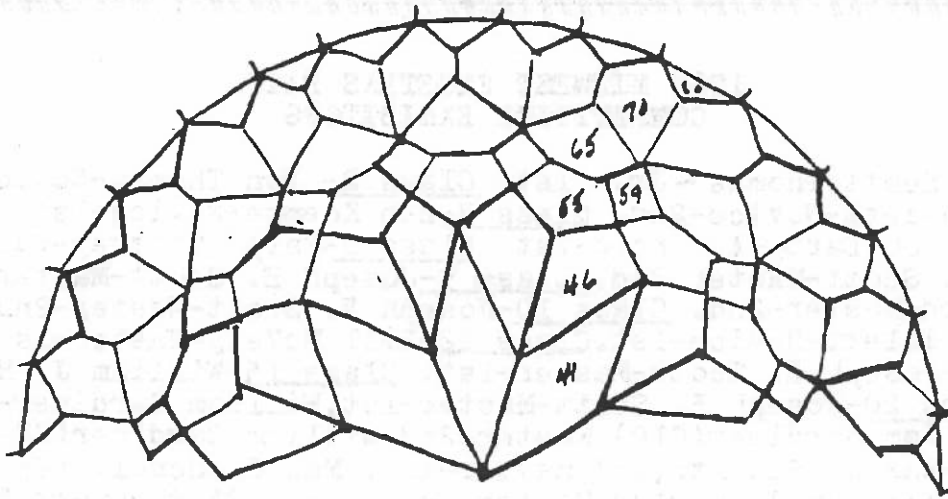
Also two Crown Faceters from the estate of Andy Ritter

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Cincinnati, Ohio Club Show April 23rd & 24th.

If you would like to demonstrate with members of our Club

Contact Tom Gibbs.



THE "424"

A MODIFIED "GIANEL"

by ELERY L. HOLT- SYLVANIA, OHIO

Index-64 Angles for quartz or a like R.I.

Original stone cut 28 mm diameter-total depth, 22 mm.-crown approx.

5 mm.-table approx. 50%

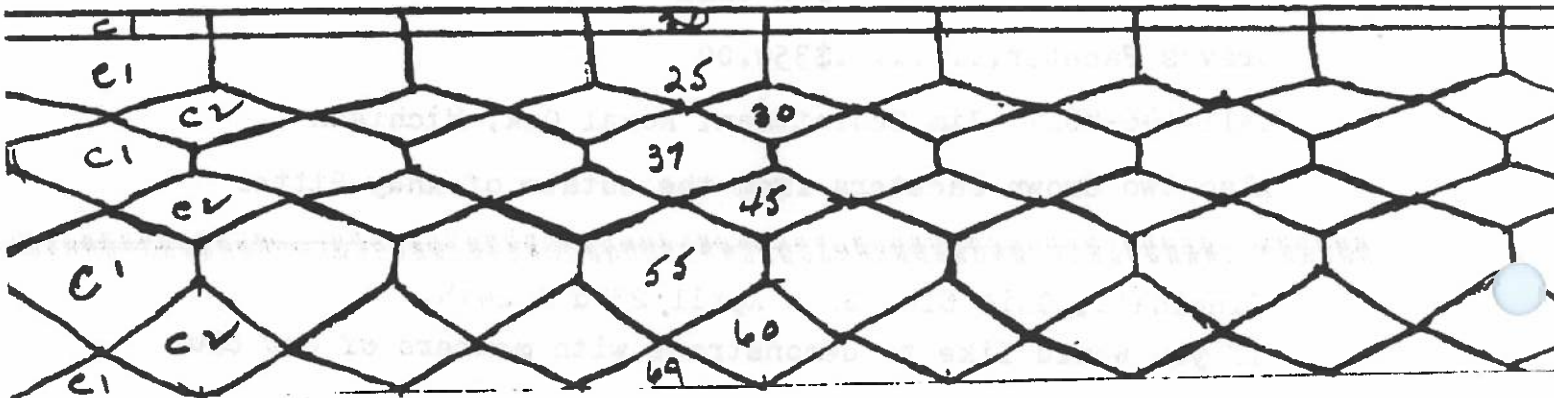
extremely thin girdle faceted at index 64-2-4-6- etc.

Crown

C-1	69°	64-2-4-6- etc.
C-2	60°	01-3-5-7- etc
C-3	55°	same as C-1
C-4	45°	same as C-2
C-5	37°	same as C-1
C-6	30°	same as C-2
C-7	25°	same as C-1
C-8	20°	same as C-1

Pavilion

P-1	80°	64-2-4-6- etc.
P-2	70°	01-3-5-7 etc.
P-3	65°	64-4-8-12 etc.
P-4	59°	02-6-10-14 etc
P-5	55°	64-4-8-12 etc.
P-6	44°	02-6-10-14 etc.
P-7	41°	64-8-16-24 etc.



EMERALD CUTS

by: Warren F. Morrison

Diagrams for emerald cuts usually show a three facet step cut pavillion with the angle intervals of ten degrees apart, i.e. 43°-53°-63°. Not all gem material, particularly natural crystals, will be of dimensions that will routinely lend themselves to being cut at ten degree intervals. Tourmaline, an expensive material, occurs in a great variety of sizes and proportions which often must be cut with greatly different angles than the ten degree separation.

In searching for a way to cut natural crystals as emerald cuts, to maximize the weight of the finished gem and to emphasize color, the following is a technique that offers a solution to these ends.

The basic decision was that the pavillion would end up with three equally wide step facets. This pavillion pattern had to include the fact that the angle of the culet (main) facet was fixed by the common standards set for specific gem materials. This angle is a function of the refractive index and the critical angle.

The problem became one of developing a method of measurement that would permit determination of the degrees of angles for the middle facet and the girdle facet of the pavillion. One thing that quickly became apparent was that after the stone had been cut into a rectangle the culet facet cut, and a suitable amount left for the crown; what remained on the pavillion had to be completed with two facets whose angles were exactly determined by the width and depth of the stone. It is possible to compute these angles by simple measurements.

Following is the step by step procedure of the technique.

1. An index gear of 64 was chosen but any index gear evenly divisible by four could be used.
2. Grind a flat for attaching the dop so that the widest direction of the rough is horizontal. Center the dop carefully to avoid waste during cutting. (See diagram No. 1)
3. Orient the stone in the machine so that long axis is parallel to the lap. (See diagram No. 2)
4. Cut four facets at the culet angle, indexing 64-32-16-48. Cut 64-32 first until they nearly meet. Cut 16-48 only to about one-third the depth of the entire stone. This step is to remove excess material and will make the next step easier. (See diagram No. 3)
5. Set machine to cut at 90° and cut the stone until it is as perfect a rectangle as you can produce. How much to cut? Enough material must be removed until there are four flat sides and ends that extend from the dopped flat toward the culet about 33% of the stone width. (Multiply the width by 0.33). This is the amount that will be needed later to cut the crown and have enough for the girdle. It is not a bad idea to make a pencil mark on the side at this point. (See diagram No. 4)
6. Reset the machine at the culet angle that was used before. Cut at index 64 and 32 until the facets meet and form a sharp line. Then cut 16 and 48 until these facets meet with the 64 and 32 cuts. (See diagram No. 5)
7. Now the angles for the middle and girdle facets can be computed:
 - 7.1 Measure the total depth of the stone from the flat where it was dopped to the sharp line of the culet. Record this number.
 - 7.2 From the measured depth of 7.1 subtract the amount that you left for the crown (step 5). Record this number. = pavillion depth.
 - 7.3 Divide the amount from 7.2 by one-half the width of the stone Carry out to two decimal points. This is a very important figure because from it both the middle and girdle facet angles are determined.

8. There are two ways to find the two angles you want. One: If you have a pocket calculator that has trigonometric functions as Sin, Cos, Tan, you enter the number from 7.3 and take the $\tan^{-1}$ (arc Tan). The angle given is the angle of the middle facet in degrees. Two: On the left side of the graph given find the number from 7.3. Estimate between lines if necessary. Move right along this line to where it intersects with the curved line. Move down the line of the intersection to the bottom edge and carefully and as accurately as possible read the number shown. Again this is the angle of the middle FACET.

9. To compute the angle of the girdle facet multiply the middle angle degrees by 2 and then subtract the culet angle degrees.

Example: Culet angle = 42.0 degrees

Middle angle = 50.0

$2 \times 50 = 100$

$100 - 42 = 58^\circ = \text{girdle facet angle.}$

10. One of the sheets shows a drawing of a stone which shaped out 6 units wide and 4 units deep for the pavillion. Also shown are the formulas for computing the angles and the graph ratio. In this instance the pavillion depth of 4 is divided by one-half the width, or 3. The ratio given to be calculated by the graph or calculator is 1.333.

11. Cutting the middle and girdle facets.

11.1 Set the protractor for the girdle facet angle. Cut four facets, 64-32 first, then 16-48. Cut until the width of the girdle facet and the culet facet are equally wide. Measure. (see diagram No.6).

11.2 Next set the protractor for the middle facet angle. Cut, indexing as in 11.1 until the three facets are all equally wide.

12. Only the middle and girdle facets are used in cutting the corners. Indexing is 8-24-40-56. First set protractor for the middle facet and cut 4 facets. Then reset for girdle facet and cut until they meet at the middle facet edge. (See diagram No. 7).

13. Set the machine at 90° and cut in 4 facets to meet the girdle facets. Index 8-24-40-56. (See diagram No. 7).

Note: Before transferring, mark the stone at the 64 index. Use a felt point pen or something that will be seen after the transfer.

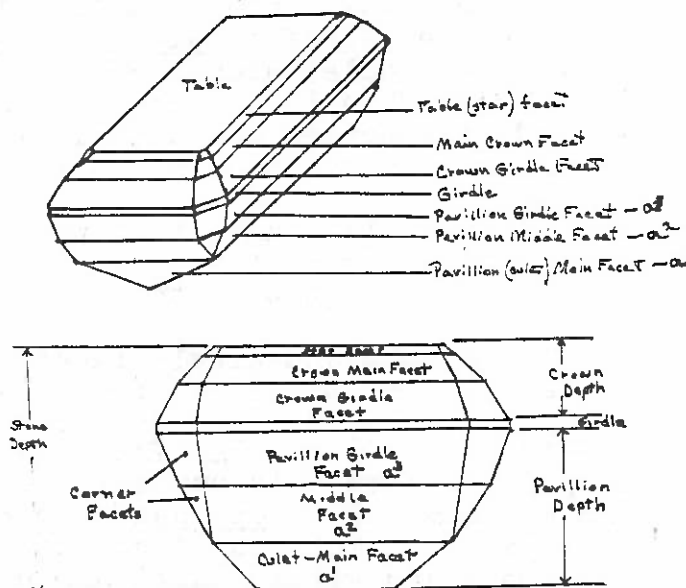


Diagram 1

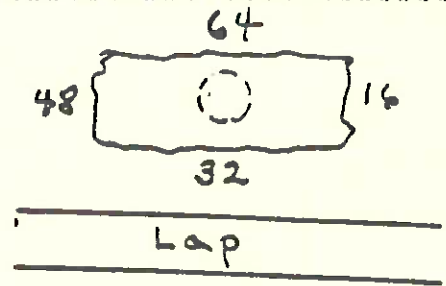
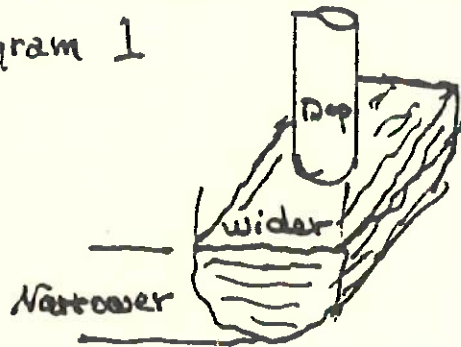


Diagram 2

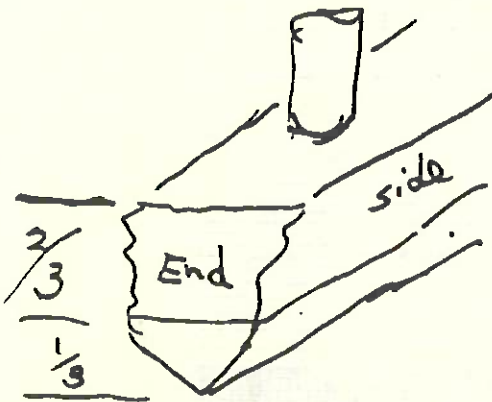


Diagram 3

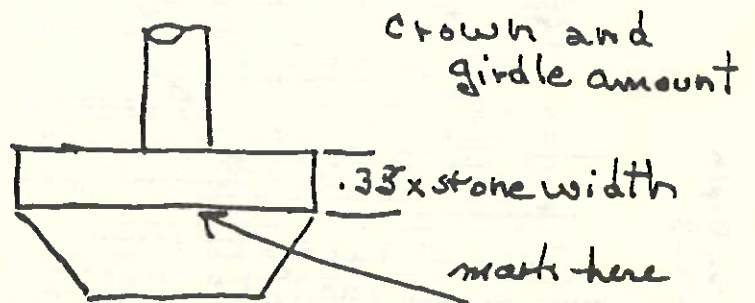


Diagram 4

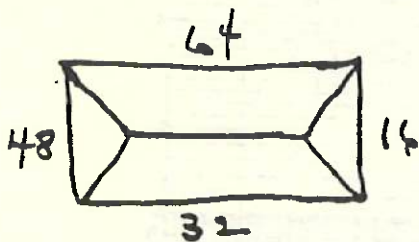


Diagram 5

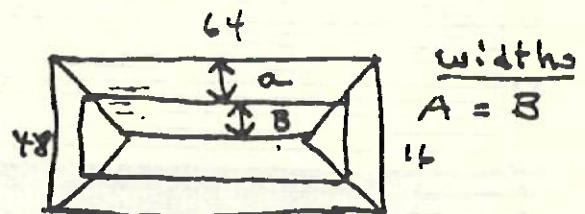


Diagram 6

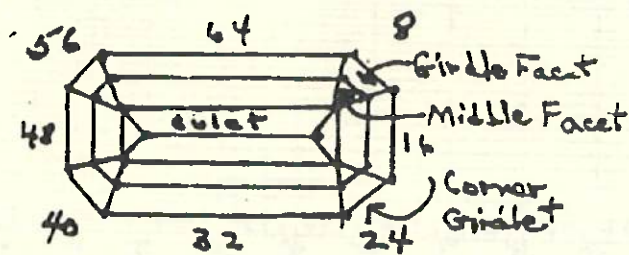
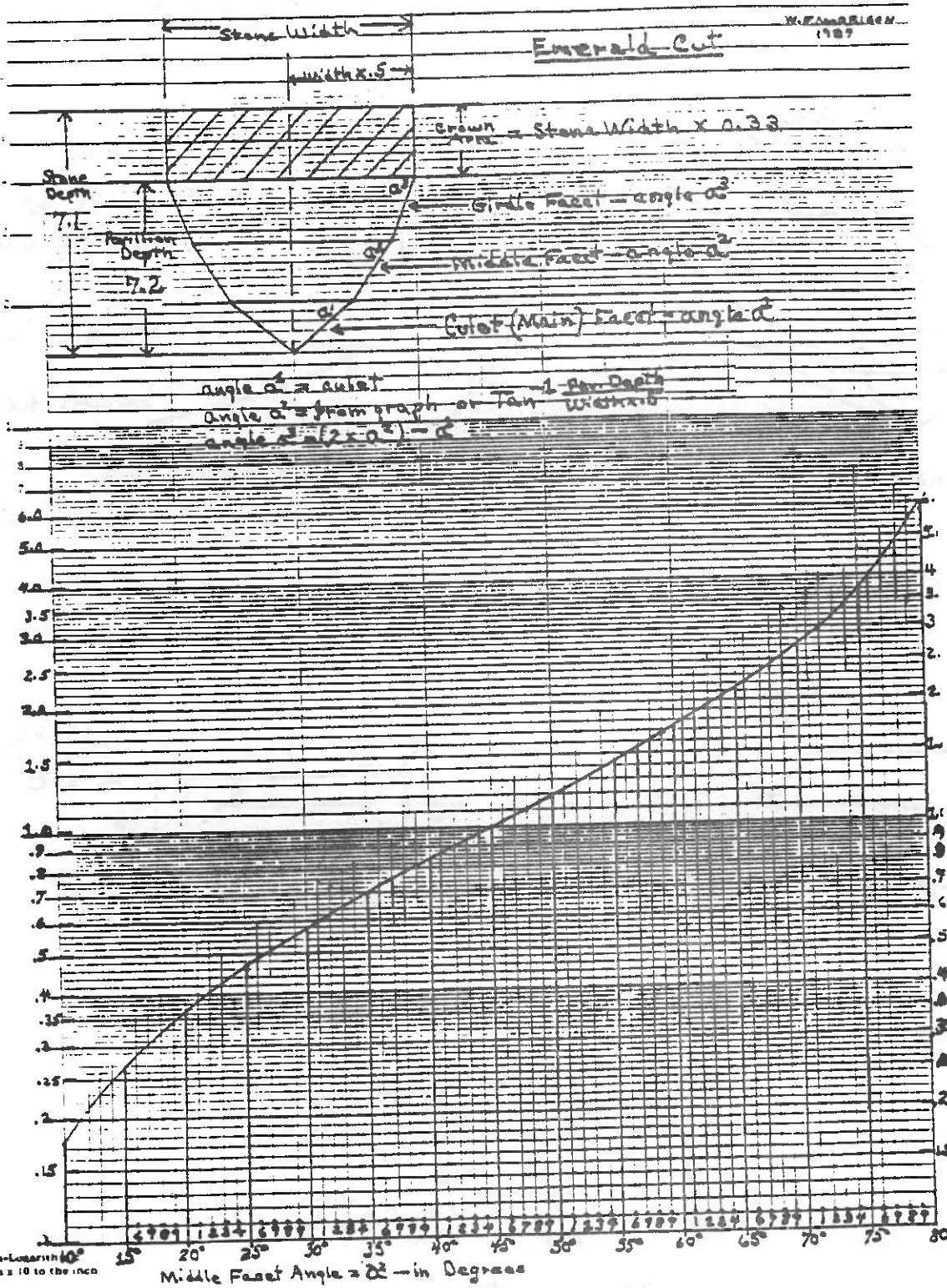


Diagram 7

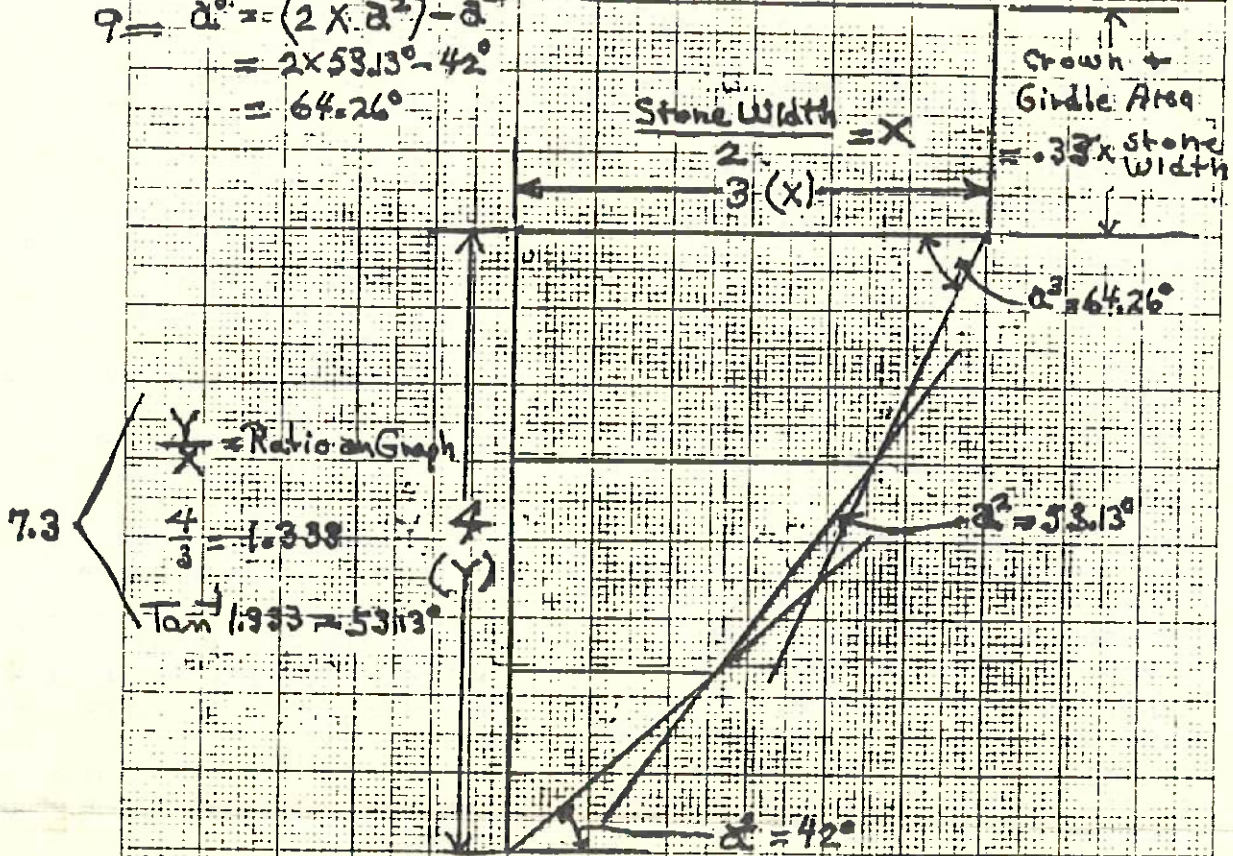
$$\tan^{-1} \frac{\text{Pavillion Depth}}{\text{width} \times .5}$$

$$\frac{\text{Pavillion Depth}}{\text{width} \times .5}$$



$$7.3 = \alpha^1 = \frac{Y}{W(8)} = \frac{4}{3} = \tan^{-1} 1.333 \approx 53.13^\circ$$

$$\begin{aligned} \alpha^2 &= (2 \times \alpha^1) - \alpha^1 \\ &= 2 \times 53.13^\circ - 42^\circ \\ &= 64.26^\circ \end{aligned}$$



Stone total width = 6

$$X = \frac{\text{Width}}{2} = 3$$

$$Y = \text{Depth} = 4$$

$\alpha^1 = 42.0^\circ$ — Culet Facet Angle

$\alpha^2 = 53.13^\circ$ — Middle Facet Angle

$\alpha^3 = 64.26^\circ$ — Girdle Facet Angle

20 Squares to the Inch

DON'T MISS THE NEXT ISSUE FOR EMERALD CROWNS BY
Warren Morrison

+++++



Secretary's Comments

The Board of Directors of the Midwest Faceters Guild was called to order on January 16, 1988 by President Tom Gibbs at 10:10 AM in Angelo's Spaghetti House, Stickney Avenue, Toledo, Ohio. Attending were Tom Gibbs, Joe Manina, Frances Bush, Elery Holt, Dorothy Loyd and Donald Sahr.

The October minutes were accepted as printed in the January Midwest Faceter.

Dorothy Loyd made a motion, "To accept the Treasurer's report as read by Elery Holt". Frances Bush seconded the motion and the report was accepted and filed for audit.

Elery Holt made a motion, "To reimburse Dorothy Loyd for the extra \$300 she spent on the Birthday Display at the Faceters Fair." Don Sahr seconded the motion and it carried.

The next meeting will be March 19th in Lansing, Michigan.

A drawing for the four day rockhound trip that was donated by Pollard Jade Mine of Rawlins, Wyoming will be held May 14th. It will be done by selling tickets for one dollar each to members only. Hopefully it will be a fair way to dispose of the prize and be reasonable sure it will be utilized.

A letter was received from Rick Russell, show Chairman of the Cincinnati Mineral Society, requesting the Guild to maintain a booth at their Show, April 23rd and 24th. Those expecting to participate are Tom Gibbs, Dorothy Loyd, the Bushes, the Sahr's and possibly Joe Manina. Harold Rice will prepare a Two-Hour Seminar.

The Mt. Clemens Show will be the 15th and 16th of April.

The Dearborn Club requested the use of our wiring for their Show and approval was granted through a motion made by Elery Holt and seconded by Don Sahr.

Elery Holt made a motion, "To have

the Guild books audited before the next meeting in accordance with the By-Laws." Dorothy Loyd seconded the motion and it carried. Harold and Margaret Boyne of Toledo will be asked to audit the books.

George Judd has agreed to be Show Chairman for the 1989 Faceters Fair to be held in Dearborn, Michigan the last weekend of October.

The schedule of meetings for 1988 is as follows:

March 19th in Lansing, MI- Joe Manina Host.

May 14th at ITC in Shelby, MI

June 25th at Taylor, MI - John Gansen Host.

October 1st - Annual Business Meeting at Mt. Clemens, MI.

Discussion was held on the starting date of the year and the duties of each officer. Proposal for amendments will be mailed out to each member for a mail-in-vote, after they are presented to the membership at today's meeting. They were published in the January Midwest Faceter.

Kathleen Myers has resigned as Rules Chairman. Thank you, Kathleen for the many hours you devoted the Guild as Rules Chairman.

A letter regarding the formation of a National Faceter's Guild was received from Bill Horton. A meeting will be hosted by the New Mexico faceter's Guild, under the direction of Louis Natonek, on February 11th at 10:00 AM in the meeting room adjacent to the lapidary shop of the Voyager R V Resort, 8701 South Kolb Road, Tucson, AZ. The results will be presented to the AFMS Committee for consideration at the Convention in Shreveport, LA, August 11 - 14.

The sale of tickets at the show exceeded the amount anticipated in the budget. 1293 tickets were sold. The budget submitted was \$9214 and expenses were \$8,055 (exclusive of the engraving of the trophies as bill has not been received), so the show was well under its budget.

A letter was received from Anthony Verdi requesting support for his request to have a fossil stamp issued by the postal service.

(next page please)

SECRETARY'S COMMENTS (cont'd)

Flyers are available for the Romain Club Auction in Lavonia, MI on March 5th and 6th.

Cincinnati Mineral Society sent a letter changing their Show dates from April to May through 1891. A letter of objection will be mailed to the Society, with copies going to the presidents of the Midwest and American Federations, as this is the same longestablished dates of the Dearborn Show and will present complications with dealers, exhibitors, demonstrators and judges.

The AFMS will have a Competition in Faceting and all entries will be mail-in. Tom has the Show-Pack for the Convention August 11-14 in Shreveport, Louisiana. He will make a copy for anyone interested.

Tom had the questionnaires that were filled out at the Faceters Fair in Dearborn and requested permission to use the names and addresses for the Dearborn show. Dorothy Loyd made a motion, "to allow Tom to use the names for the Dearborn Club." Joe Manina seconded the motion and it carried. Dorothy requested permission to read the comments and compile the results for future use.

Volunteers will be asked for at the Membership Meeting to form a Committee to learn to operate the Club Camera to insure better coverage of programs and shows.

A new Membership Directory is long overdue and Bill Gardiner will be instructed to compile one for publication.

Meeting adjourned at 11:49 AM for lunch.

Respectfully Submitted,
Frances Bush, Secretary.

The January 16, 1988 Membership Meeting of the Midwest Faceters Guild was called to order at 1:32 PM in the meeting room of Angelo's Spaghetti House in Toledo, Ohio.

Minutes were approved as published through a motion made by George Judd

and seconded by Bob Cuson.

The Treasurer's report was accepted as read by Elery Holt and filed for audit through a motion made by Bob Cuson and seconded by Joe Manina. The Guild's Books will be audited by Margaret and Harold Boyne of Toledo before the March 19th meeting in compliance with the By-Laws.

A very appreciative vote of Thanks was extended to John Gansen for building our beautiful new display cases used for the Birthday Exhibit.

Many compliments and our appreciation to Harold Boyne for his fluorescent display of gem stones. Very beautiful indeed, Harold.

Volunteers are needed to help maintain our booth at the Cincinnati Show April 23rd and 24th.

Congratulations and our sincere "Thank You" for accepting the Chairmanship of the 1989 Faceters Fair, George Judd.

The VCR and Camera Committee now consists of Bill Schell, Bernie Bush, Harold Rice, Jim Schlottzman and Elery Holt. This committee was formed to insure a more complete coverage of Programs and shows when necessary.

Membership Secretary, Bill Gardiner will be requested to prepare a new Membership Directory to be mailed to each member.

The AFMS Convention in Shreveport, LA will have a Faceting competition on a mail-in basis only. Tom has applications and the show Pack and will copy it for any one interested. Convention dates are August 11 - 14, 1988.

Discussion was opened on the proposed changes to the By-Laws that were published in the Midwest Faceter. A Secret Ballot will be mailed to all members for approval or rejection.

Joe Manina will Host the March 19th meeting in Lansing, Michigan.

May 14th the Guild will have a field trip to ITC in Shelby, Michigan. It should prove to be an exciting day learning the insite of the making of CZ.

June 25th, John Gansen will host the

(next page please)

SECRETARY'S COMMENTS (cont'd)

the meeting in Taylor, Michigan. October 1st will be the Annual Business Meeting in Mt. Clemens, Michigan.

The Faceters Guild will sell one ticket per member and to members only as a fair means of selecting a winner that will make use of the free rockhound trip donated by Pollard Jade Mines of Rawlins, Wyoming. If you are interested in this drawing and feel you would like to participate in the drawing you may send \$1.00 with your name and Address to:

Elery Holt, Treasurer
6758 Erie Street
Sylvania, OH 43560

Tickets will also be available at the meetings. Drawing will be held on May 14th. This Four-Day Rockhound Trip includes lodging, and guided field trips to the Jade Fields, The Agate Beds and other points of interest; Battle Mountain and Snowy Range and Saratoga Hobo Pool, plus dinner. The trip does not include transportation to and from Rawlins but would really be worth the time and expense for the winner.

NEW BUSINESS:

Bernard Bush explained the mike attached to the camera picks up too much interference from the audience and background when recording a program and made a motion, "To purchase wireless microphones to be used in conjunction with the camera." Dorothy Loyd seconded the motion and it carried. Bill Schell suggested two were necessary a lapel type and the hand held to make it practical for speakers presenting the programs.

Bernard Bush suggested a deposit fee

be established for the loan of taped programs to insure their return. Many ideas were expressed but the idea was tabled until the March Meeting to give the Camera Committee a chance to come up with a plan.

John Gansen reminded us of the Club decision to purchase rough gem material that would be cut by members for our permanent Birthday Exhibit. Dorothy Loyd agreed to Chair this Committee to purchase the material and select the cutter. All Members are requested to cut a natural stone (Your Birthstone is suggested). To date Dorothy has received an Aquamarine and a Tourmaline.

Bill Schell made a motion, "We allot \$1,000 to Dorothy Loyd to buy precious stones for the purpose of faceting them for our permanent Birthday Display, while she and other members are at Tuscon." Bill Bowles seconded the motion and it carried.

Bob-a-Lou donated 10 units of Diamond Spray to be used by the Guild as Door Prizes. Three will be used at each meeting until they are all awarded. Winners of the spray at the January meeting were Jim Schlottzman, Bernard Bush and Bill Bowles.

Thank you Dorothy for the article on "Colors and How They Affect Us" that was given to all those attending and also for another exciting program.

Meeting adjourned so we could enjoy the very informative and interesting slide program on the Chemical properties and Crystal Shapes and the formation of colors as presented by Jim Schlottzman. Thank you for making our day, Jim.

Respectfully submitted,
Frances Bush, Secretary.

RAFFLE

Bernard Bush, Raffle Chairman is asking for donations again for our Guild's raffle to be held October 1, 1988 at Mt. Clemens. Members have been very generous in the past by supporting this endeavor. So will you please do so again and many thanks to those who have and will contribute. Please contact Bernie as soon as possible with your commitment so the tickets may be printed now.

THE MIDWEST MINERALOGICAL & LAPIDARY SOCIETY OF DEARBORN - 16th ANNUAL METRO ROCK SWAP
SUNDAY, MARCH 27th - 10:00 AM to 5:00 PM - ALLEN PARK CIVIC HALL - 15871 Philomene -
ALLEN PARK, MICH. PUBLIC INVITED - FREE ADMISSION - FREE PARKING - (313) 278-5063.