

THE MIDWEST FACETER



September 1992
Volume 12 Number Five

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

THE MIDWEST FACETER
11630 S. Gera Road
Birch Run, MI 48415

Non Profit Org.
U. S. Postage
PAID
Toledo, Ohio
Permit No. 800

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279
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48135
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DUES PD 1993

THE MIDWEST FACETER

Editors

Kathleen Myers

Bill Horton

Send all Articles and

News Items to:

THE MIDWEST FACETER

11630 S. Gera Road

Birch Run, MI 48415

THE MIDWEST FACETER

DEADLINE:

The 10th of the month

preceding publication.

THE MIDWEST FACETER is not forwardable. For membership application or change of address contact:

Membership Chairman: William J. Horton 2589 Hughes Road Howell, MI 48843

THE MIDWEST FACETER is 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 author and not necessarily those of 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 MEETINGS FOR THOSE OF LIKE INTERESTS**
- * TO PROMOTE THE ACHIEVEMENT OF INDIVIDUALS**

MEMBER OF:

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

MIDWEST FACETERS GUILD

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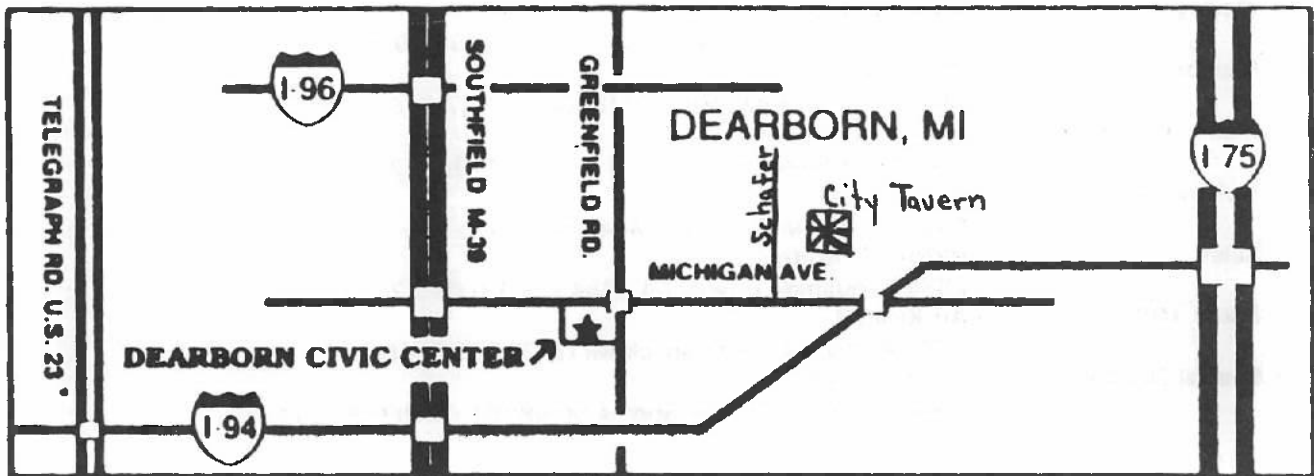
MWFG MEETING October 3, 1992

October 3

**Dearborn City Tavern
14315 Michigan Ave.
Dearborn, MI
313/584-1515**

**Board Meeting....10:00 a.m.
Regular Meeting.. 1:00 p.m.**

- * Election of Officers
- * Faceters Fair Plans



From the President's Quill.....

Tom Gibbs

Summer's end brought us another beautiful weekend for the 3rd MWFG Seminar. Kathleen out did herself again to present those attending a GREAT program !

Excellent teachers, great fellowship, old and new friends and lots of fun were the keys to the success of the weekend.

Kathleen and her entire staff deserve a BIG THANK- YOU. We can look forward to next August and the 4th Seminar.

The Annual Meeting of the MWFG and the election of officers will be at our October 3rd meeting.

The Midwest Faceters Fair October 30,31 and November 1 will bring us together in Dearborn. We need all guild members to attend, bring your friends and enjoy the spectacular displays, dealer offerings and excellent programs presented. Be sure to alert your local Rock & Gem Club about the Fair with a personal invitation from you to attend (many rock hounds think our show is only for faceters!)

Dorothy Loyd and her helpers will assemble The MIDWEST FACETERS GUILD BIRTHSTONE EXHIBIT for everyone's viewing pleasure. This very special exhibit is the finest of its kind anywhere .

Looking forward to seeing all of you at the Fair !

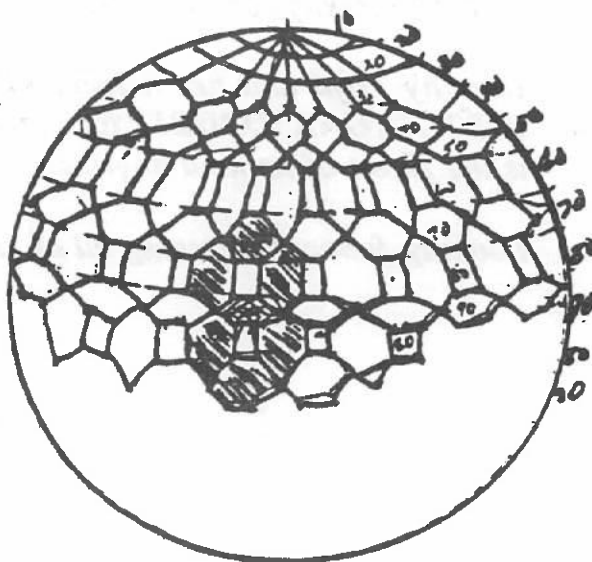
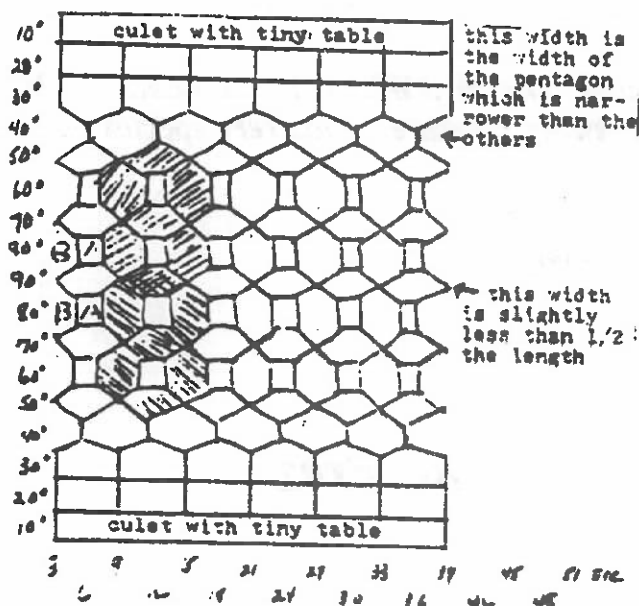
the Prez..

L'TRIANON
a faceted sphere
by
ELERY L. HOLT

336 facets 96 index
Start out with a sphere if you can make one; but it is not necessary. Cut the 90° facet to circle your stone, the others will fall in place. It is necessary to set your caliper to slightly less than half the length of the facet for the width of the next cut. When cutting the $80a^\circ$ facet, determine where the girdle will be and mark a spot with a pencil. Cut the 80° facet accordingly remembering that half of the girdle will develop after transfer. When you transfer the stone, you will cut the width you have set on your caliper. Cut $80a^\circ-70^\circ-60a^\circ-50^\circ-80b^\circ-60b^\circ-40^\circ$ --Cut 30° but change your caliper to the width of the pentagon which was formed when cutting the 40° facet. Maintain your caliper distance. Cut $20^\circ-10^\circ$ to a culet. Eye-ball your curve and if it bulges slightly adjust the angle slightly. A very small flat table-like facet will also help.

All facets are indexed 96-6-12-18 etc. except $80b^\circ-60b^\circ-40^\circ$ which are indexed at 3-9-15-21 etc.
Polish from the girdle to the culet. Original sphere is 50mm in diameter. Material optical clear glass. Developed by

ELERY L. HOLT, SYLVANIA, OHIO 12-1-91



A FACETED SPHERE

BY

ELERY L. HOLT

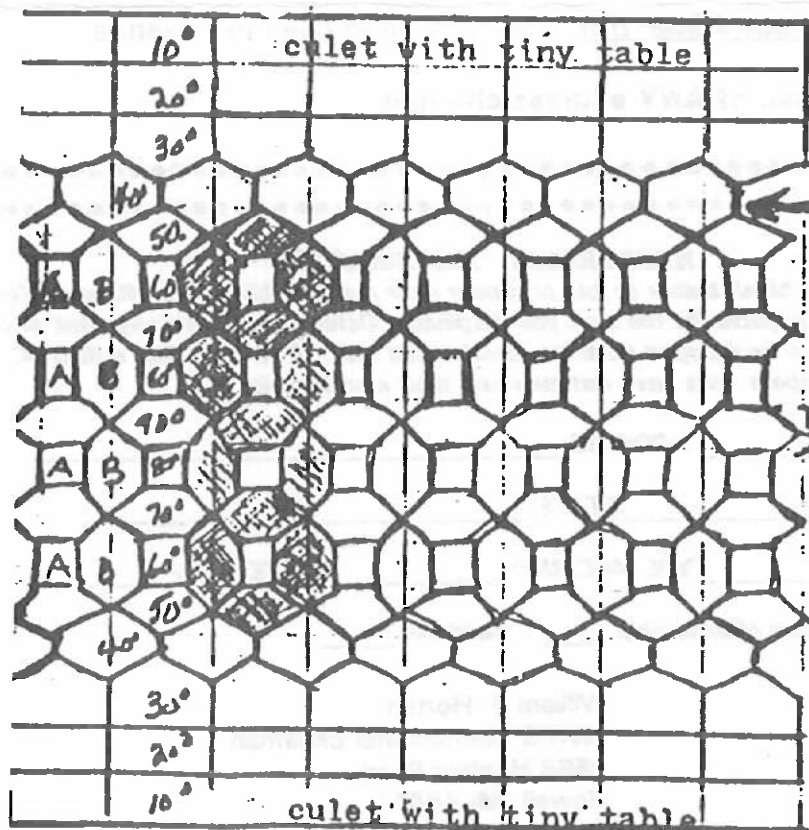
96 INDEX

Start out with a sphere if you can make one; but it is not necessary. Cut the 90° facet to circle your stone, the others will fall in place. It is necessary to set your caliper to slightly less than ^{half} the length of the facet for the width of the next cut. When cutting the 80a° facet, determine where the girdle will be and mark a spot with a pencil. Cut the 80° facet accordingly. When you transfer the stone, you will cut the width you have ^{work} set on your caliper. ^{for the final} Cut 80a°-70°-60a°-50°-80b°-60b°-40°. Cut 30° but change your caliper to the width of the pentagon which was formed when cutting the 40° facet. Maintain your caliper distance. Cut 20°-10° to a culet. Eye-ball your curve and if it bulges; slightly adjust the angle slightly. A very small flat table-like facet will also help.

All facets are indexed 96-6-12-18 etc. except 80b°-60b°-40° which are indexed at 3-9-15-21 etc.

Polish from the girdle to the culet.

Developed by Elery L. Holt, Sylvania, Ohio



this width is the width of the pentagon which is narrower than the others

this width is slightly less than 1/2 the length

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6	12	18	24	30	36	42	48	54	60	66	72
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FROM the ROLLS.....**Bill Horton**

We have a new Membership Chairman, Bill Horton.

We would like to thank **Bill Gardiner** for all of his excellent service as Membership Chair for many years. **A BIG THANKS BILL !** The Guild will give Bill a well deserved rest from a BIG job !

We have a new format for keeping the membership directory that will allow us to keep continuous records of our membership and items of special interest.

Your dues are payable in **OCTOBER**. This time when you send in your \$ please add some extra information. Include the type of machine you are currently using, the year you joined the Guild, and if you are willing to teach others.

PLEASE print or type your application.

The labels on your bulletin will have a "DUES PAID 1993". If the "PAID" is crossed out with a red mark, it will indicate that you are delinquent.

We have one member, God love him, who has paid dues through 1996. 10,000 **ATTABOYS** go to Joe Rubin.

Send in your 1993 dues ASAP !!!!! You may send dues in advance.

Please keep us advised of **ANY** address changes.

MEMBERSHIP INFORMATION

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 October 1st. Non-payment of dues by April 1st will cause your name to be dropped from the membership rolls. After Jan. 1st, a RED DOT will appear on the label of those members who have not renewed their membership.

NAME: _____ ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: (____) _____ TYPE MACHINE: _____ TEACH ? _____

New Membership _____ Renewal _____

Please mail all dues to :

William J. Horton
MWFG Membership Chairman
2589 Hughes Road
Howell, MI 48843

Year Joined Guild _____

Ed Myers**The Cutting Edge**

Bill Horton attended and presented the report of the AFMS Faceting Rules Rewrite committee at the combined AFMS/MWF Show and Convention in July. That committee consisted of representatives from every Federation: California Federation, Bill Norton; Northwest Federation, Dr. Don Patton; Rocky Mountain Federation, Stephen and Nancy Attway; South Central Federation, Walter Carrs; Midwest Federation, Edward Myers; Eastern Federation; Art Grant and Chairman Bill Horton.

Despite very strict time lines the committee was able to present a consensus proposal to the AFMS Uniform Rules Annual meeting for consideration. The committee accepted the rewrite nearly word for word with some minor changes in wording for consistency with the current rules. However the proposed separate trophy for the 12 stone categories was turned down.

The revised rules are included for your information they will be effective immediately for all Federation and AFMS Contests.

All of the Committee and especially Chairman, BILL HORTON deserve a GIANT THANK-YOU for all the hard work on this rules rewrite.

It is now up to all of us to get our entries ready and claim the "TOP GUN" titles of AFMS Champions.

12.0 SUBDIVISION CF: FACETED GEMSTONES

Please read all Division C Rules.

RULES FOR SUBDIVISION CF

Rule 12.1 Faceted gemstones are stones cut to a selected geometric pattern by the placement of flat, concave or convex surfaces called facets. (Facets need not cover the entire stone, e.g., partially faceted domes, etc.)

(a) Faceted gemstones may be of any size, with the exception that at least one gemstone shall be 3MM or less in it's maximum dimension parallel to the girdle, and at least one gemstone shall be 20MM minimum or more in it's minimum dimension parallel to the girdle.

(b) Faceted gemstones are of three types as follows:

(1) "Round" Type are stones cut with a regular facet arrangement about the centerline of the stone and with three or more planes of symmetry. Examples are round brilliants, equilateral triangles, pentagons, hexagons, etc.

(2) "Fancy" Type are stones which have either one or two planes of symmetry. Examples are ovals, marquise, pears, hearts, kites, rectangles, etc.

(3) "Freeform" Type are stones that do not have a regular facet arrangement about the centerline of the stone nor any plane of symmetry.

The planes of symmetry referred to above do not include the plane of the girdle.

Rule 12.2 The number of faceted stones will be a minimum of twenty (20) and a maximum of forty (40) except in classes CF-3 and CF-5. The number of faceted stones will be twelve (12) in classes CF-3 and CF-5.

Rule 12.3 Exhibitor must leave display case keys with the Rules Chairperson or assistant prior to time of judging, or arrange to open the case when necessary. See Section I, Part I, Rule 3.9.

Rule 12.4 Evaluation of the exhibit shall be assisted by the use of optical aids of 10X magnification only. Stones shall not be examined at any higher magnification during judging. No less than three (3) stones or more than six (6) stones shall be removed from each exhibit for such examination. Stones removed from an exhibit, as selected by the judges, shall be the same number from each case and be similar type cuts, e.g., marquise from each case, oval from each case, rectangle from each case, etc.

Rule 12.5 OUT-OF-CLASS items for Faceted Gemstone classes are:

(a) Synthetics or other man-made stones, in classes restricted to natural stones. (e.g., Classes CF-1, CF-2, and CF-3.)

(b) Natural stones in classes restricted to synthetics or other man-made materials. (e.g., Classes CF-4 and CF-5.)

(c) More than one stone of identical cut in Classes CF-3 and CF-5.

(d) Stones over or under imposed limitations.

(e) Any stones except diamonds without a polished girdle.

(f) Any stone mounted in jewelry.

Deductions for OUT-OF-CLASS stones shall be five (5) points for each OUT-OF-CLASS stone, to be deducted from the TOTAL score awarded the exhibit.

Rule 12.6 Quality refers to color and relative freedom from flaws and inclusions. Cost and rarity shall not be a factor in evaluating quality of material.

Rule 12.7 Workmanship is a measure of the perfection of the meets between facets, the correctness of angles to achieve maximum brilliance and color, the perfection of polish, the proportion and alignment of facets, the uniformity of similar facets, and the ability to minimize the undesirable effects of inclusions and/or flaws. All girdles shall be polished, with the exception of diamonds.

Rule 12.8 Difficulty/Variety of Work refers to the originality, the diversity of type of cut and design of stones; and to the skill that is required to accomplish a near perfect cut of the design and material in question.

Rule 12.9 Showmanship shall refer to the ability of the exhibitor to use the material exhibited, the background material, lighting, arrangement, and labeling features (such as size and neatness), to create a display which will attract and hold the interest of the viewer.

Rule 12.10 Variety of Material refers to the use of diverse kinds of material, and/or differing ranges of hardness.

Rule 12.11 When synthetics or other man-made stones are permitted, they must be identified as such on the label. See Rule 9.2 (b). In Classes restricted to either natural or man-made materials, a group label may be included in the case stating "Natural" or "Man-Made", and the labels of individual specimens will not repeat this information.

Rule 12.12 References. The current AFMS "approved Reference List of Lapidary Material Names", "Encyclopedia of Gemstones" by Joel Arem, "Description of Gem Materials" by Vargas, and "Gems Made By Man" by Nasssu are the authority for gemstones names.

JUDGING POINTS FOR FACETED GEMSTONES

See Section II, Page S-II-1-1992

Category	L	S	Q	W	VM	D/VW
T	5	10	5	60	10	10
V	5	10	10	65		10
W	5	10		70	5	10

CLASSES FOR SUBDIVISION CF

- CF-1 Faceted Gemstones, natural material; any type cuts. (T) (1) (T19)
- CF-2 Faceted Gemstones, natural material of one kind; any type cuts. (V) (1) (T19)

CF-3 Faceted Gemstones, natural material; specified types of cuts with no two (2) stones of identical cut. Twelve (12) stones as follows: At least four (4) "Round" Type, at least four (4) "Fancy" Type, plus four (4) of exhibitors choice, which may include "Freeform" Type. (T) (1) (T19)

CF-4 Faceted Gemstones, synthetic or man-made materials; any type cuts. (W) (1) (T20)

CF-5 Faceted Gemstones, synthetic material; specified types of cuts with no two (2) stones of identical cut. Twelve (12) stones as follows: At least four (4) "Round" Type, at least four (4) "Fancy" Type, plus four (4) of exhibitors choice, which may include "Freeform" Type. (W) (1) (T20)

HOSPITALITY NEWS.....

Doris Medlen

It is that time of year again !

Show Time and Hospitality Time !

All our dealers are rather special and they should have Special treatment.

We try to keep them happy with good food from the Hospitality Room when they have a few minutes to break away from the customers on the show floor.

*To take care of the feeding of our Dealers and show workers we need **HELP!***

You can contribute with such items as: coffee, cookies, cakes, pies, salads, cheese trays, crackers, veggies, dip, fresh fruit, sandwich material, bread, buns, chips, etc.

Friday evening we have coffee, tea and cookies and Saturday and Sunday the sandwich materials etc. for a quickie lunch.

As you can tell we will need all the MWFG gourmet cooks to help with goodies for the two days. The Hospitality Room normally serves about 100 people per day !

The Great Chefs of the Guild made 1991 a real success and we hope this year will be even better. When you come to the Fair PLEASE bring something special for the Hospitality Room.

Thanks....

Doris

We also have need of extra hands to deliver coffee & snacks to folks too busy for a break - if you can help out for a while please stop by.

SECRETARY'S MINUTES**Frances Bush**

The August 8, 1992 meeting of the Board of Directors of the Midwest Faceters Guild was called to order by President, Tom Gibbs at 9:48AM in the Ranch Restaurant in Michigan City, Indiana. Those in attendance were: President Gibbs, Don Sahr, Elery Holt, Frances Bush, Carmen and Bud Eiche, Jane Holt, Doris Medlen, Bernie Bush, and Pam VanDyke. Absent were: Bill Horton, Art Kalinski, Dorothy Loyd, Ed Myers, Kathleen Myers, June Ramshaw, Harold Rice and Debra Stutts.

President Gibbs welcomed all those present and thanked everyone for coming.

The minutes were approved as corrected through a motion made by Carmen Eiche and seconded by Don Sahr.

The Treasurer's report was accepted as read by Elery Holt and filed for audit through a motion made by Bernard Bush and seconded by Carmen Eiche.

ANNOUNCEMENTS:

The Annual Midwest Faceters Guild meeting will be October 3, 1992 at the City Tavern in Dearborn, Michigan. Election of officers will be held.

The Annual Midwest Faceters Guild Seminar will be August 14-16th at Hartland High School, Hartland, Michigan.

Committee Reports:

Education Chairman, Bernard Bush will try to arrange a trip to Shelby, Michigan with a tentative date of April 24, 1993. A Field Trip to Lizzadro's Museum of Elmhurst, Illinois will also be arranged.

Hospitality Chairperson, Doris Medlen submitted an article for the Bulletin so you can sign-up for snacks and food for the hospitality room at the Faceters Fair.

Chairmen for the Competition, the Historian, the Librarian, Membership, Parliamentarian, Show and Special Display and the Co-Editors were all absent- no reports.

Show Chairman, Art Kalinski sent an announcement that the Show Committee will meet at 6:00 PM in Under the Eagle Restaurant in Hamtramck, Michigan on Friday, September 18th. Upstairs doors open at 5:30 PM.

NEW BUSINESS:

The delegate to the midwest Federation has been given an honorarium of \$25.00. A discussion was held concerning expenses involved. Elery Holt made a motion, "The Treasurer be authorized to write a check for \$100 for the delegate to the Convention and anyone setting up and maintaining a booth at a Show". The motion was rescinded because of too many complications and the expense that could be involved. Elery Holt made a motion "to increase the official delegate's fee to \$100". Don Sahr seconded the motion and it carried. Don Sahr made a motion, "That the \$100 fee for the delegate be retroactive to this year at Brunswick, Ohio." Doris Medlen seconded the motion and it carried.

Zigmund Grutza of Di-Coat will be at the Seminar and will accept laps, tools and drills for plating and will have paste, powders and custom plated tools available.

Elery will accept renewal or new subscriptions for the "Lapidary Journal". There is an 800 number in the "Lapidary Journal" to call if you have a problem with your subscription.

Bernard Bush made a motion, "That we pay John Gansen for the truck rented to transport the Birthstone Cases to the Convention in Brunswick, Ohio". Jane Holt seconded the motion and it carried unanimously.

Bill Schell is Nominating Chairman.

Dealers Contracts are all signed and returned but one.

Meeting was declared adjourned at 11:05 AM by President, Tom Gibbs.

Respectfully submitted,

SECRETARY'S MINUTES (cont'd)

The Membership meeting of the Midwest Faceters Guild was called to order at 1:20 PM in the Ranch Restaurant in Michigan City, Indiana with twenty nine members present.

President, Tom Gibbs thanked everyone for coming and Clarence Orrell for making the arrangements for the meeting.

The Minutes were approved as corrected to read "The Midwest Faceters Guild Wiring was donated to Dearborn Club to use as they see fit" and accepted through a motion made by Pat Kellerher and seconded by Doris Medlen

The Treasurer's report was approved and filed for audit through a motion made by Carmen Eiche and seconded by Tom Fields.

The Show Committee will meet at 6:00 PM in Under the Eagle Restaurant in Hamtramck, Michigan on Friday, September 18th.

The Annual Meeting and election of officers will be Saturday, October 3rd in the City Tavern, Dearborn, Michigan.

The Faceters Seminar will be next week. Check with Kathleen Myers for any available openings.

The Faceters Fair will be October 30- November 1st. If you need a sign printed for the Fair please let Tom Gibbs know as soon as possible so they can be printed ahead of time.

COMMITTEE REPORTS:

EDUCATION- Bernard Bush thanked Clarence Orrell for arranging the meeting and announced Stan Jacobs will present a program on "Sapphire Mining".

NEW BUSINESS:

The Birthstone Cases received a Second Level Place in the Educational Category. The American Federation asked if it were possible to have the Birthstone Cases travel to other Federation Shows but it would be too costly and too much work.

The Board of Directors recommended the Club pay for transportation of the cases through a motion made by Robert Heinek and seconded by Pat Kellerher. Motion carried.

Di-Coat will do diamond plating for laps, wheels, core drills and plates for about half the cost of a new wheel.

It was suggested that the Host Group have two or three of their group set in on the Board of Directors meeting so they may offer their input.. It will be tried at the next meeting but these persons will have no voting power.

The meeting adjourned at 2:47 PM to enjoy the "Mining of Sapphires" as presented by Stanley Jacobs.

Respectfully submitted,
Frances Bush, Secretary.



Congratulations to the sponsoring organizations of the American-Midwest Federation Show for a very hospitable and well planned affair.

The 52nd American-Midwest Federation Council meeting was called to order with Clint Heckart leading in a heartfelt Invocation followed by the introduction of the Honorary Members and Dignitaries that were present..

The total number of Clubs in the Midwest Federation is 194 with 10,049 Adult members and 895 Junior Members. Michigan leads as the state with the largest number of clubs, 38, followed by Ohio with 31. It's amazing how time flies when you are having fun. So many clubs throughout the Midwest Federation were presented with their 25th and 30th year certificates. It's like "Old Home Week" to see so many of those friendly and familiar faces.

Hosts are needed for the 1994, '95 and '96 Conventions or all this delightful comradery will have no place to continue as many of the friends are seen only once a year at the Conventions, unless you are fortunate enough to run into them at other shows. Discussion was held on means of making it easier for organizations to Host the Conventions. It was suggested the Federation share a larger share of the expenses or loss. Cal George stated it would require a change in the By-laws, Article 6, Section 7, on page I-7 to accomplish this. Marvin Starbuck made a motion, "That the Problem be turned over to the Long Range Planning Committee to act on the issue at the Fall meeting". Motion was seconded by Tom Gibbs and carried.

Uniform Rules Chairman, Anne Cook reported that Bill Horton Chaired the Committee that rewrote the new Faceting Rules that were adopted and they will become effective January 1, 1993.

Reports were given by the State Directors of the activities within the clubs of their states and presented certificates to clubs celebrating from 5 to 35 years of existence. It was called to our attention that organizations on Field Trips are sometimes careless about leaving litter at the collecting sites. This makes for a bad appearance as well as making it harder for the next group to get reservations. Marvin Starbuck complimented the State Directors and expressed the importance of the job they do of keeping their clubs informed.

The Midwest Federation Newsletter may be ordered on an individual basis for \$6.50 a year. It was suggested Clubs order a subscription for all the Officers and Board Members to keep them current of Federation Events. At present Kitty Starbuck is Editor and mails out 625 Newsletters.

Convention Show Chairman, Rose Blue reported they had 170 excellent exhibits, 56 of them competitive, and thanked everyone for the high quality exhibits they displayed.

Copies of the updated version of the "Program Planners Manual" will be mailed out later this summer so all clubs will have a complete listing of programs in the Midwest Federation Library. An adapter for a VCR may be available to project the program onto the screen. Retired programs will be returned to the donor.

The AFMS approved forming the 501 C4 Committee that will enable the hobbyist to lobby for collecting rights without endangering our non-profit status of clubs. New Officers will be elected from the Membership. The AFMS will not sponsor the Committee either financially or by name. The fee for an individual membership is \$25.00.

The new Uniform Rules Books are available for \$4.50 plus postage and the new Directories are available for \$3.00 plus postage and handling. The Directory now lists places of interest to visit.

CONVENTION REPORT (con't)

SAFETY AND Field Trip Chairman, Loyd Brown suggested labels on new compounds be read very carefully for information on use of the products and precautions to take when using them. The AFMS Safety manual should be consulted for information on the toxicity of the rocks and minerals we work with.

Diane Dare was chosen to select the recipients of the 1992 Scholarship Awards.

Chuck Collins and Marvin Starbuck gave a tentative resume of the 1993 Field Trip Convention to be held August 9-15th in Houghton, Michigan. Show packets will be available after the first of the year. All activities will be held on campus. They will have an auction for Seeman museum and possible Swap. There will be no dealers, but hope to have Competitive Displays. Room and Board will be available for \$100 per person, per week in the dorm rooms. Safety equipment such as hard hats, goggles and safety shoes will be required on all field trips. Metal detectors will be a great asset on trips. Maps will be available from Houghton Iron Industry Museum. A motion was made and seconded, "That the \$750 Budget for the 1993 Field Trip Convention be paid". Motion carried.

The Fall Executive meeting will be held in Oshkosh, Wisconsin October 23rd-25th. The Spring meeting will be the first weekend in May in Kalamazoo, Michigan.

Cal George made a motion, "That the Council meeting date, when no bid is received to hold the Show, be delegated to the Midwest Executive Committee in 1994 to host the 1995 Convention." Seconded by Paul Clifford and carried.

Ardith Garland and Hazel Kuntz were elected to the Nominating Committee for a period of three years. The Secretary was asked to destroy the ballots through a motion made by Mary Hanning and seconded by Paul Clifford.

A Junior Activities Leader is needed for the Midwest Federation.

Any individual may join any Federation unless their By-Laws prohibit it.

Response from 65 clubs was received in regards to the Insurance. 35 expressed an interest. Insurance would cover Liability only. Officers would be protected from law suits, plagiarism, loss of records in homes and fire insurance. Once the Policy is accepted, no club can sign up until the next premium period. Once a club is a member, a new member would automatically be covered until the next premium is due. Insurance premiums should be mailed in when the Federation dues are paid. If a Club agrees to join every member is required to pay the Insurance premium of \$1.40, regardless if they are an active member or not. No partial membership will be accepted from any club. To prove club show insurance write to the Insurance Chairman for proof of coverage. A fee of \$60 would be charged for the certificate. A rider on the policy to cover everything that happens in the duration of the Show and any post-Show Claims. Juniors are covered if the parents are members and have payed the \$1.40. Juniors must each pay \$1.40 if the parents are not members. The Insurance does not cover accidents while traveling for club business. Field Trip Supervisors or Speakers would be covered. A copy of the Policy should be mailed to all Clubs. Margaret Heinek made a motion, "That if enough Clubs are interested that the Committee be authorized to pursue more information." Bill Cook ammended the motion to read, "If the Executive Committee approves the Insurance after receiving a copy of the Policy." The ammendment was voted upon and carried. The Motion was voted upon and carried.

The Slate of Officers for the Midwest was announced by the Nominating committee. Paul Cilfford made a motion, "The Slate of officers be elected by acclamation." Motion was seconded and carried.

Midwest Officers installed by Calvin George at the Awards Banquet were: Kathleen Miller as President; Marvin Starbuck, 1st Vice President; Anne Cook as 2nd Vice-President; Jean Reynolds as Secretary and Norman Hanschu as Treasurer. The gavel was passed from Glen to Kathleen. Glen Hanning was presented a Placque for a

CONVENTION REPORT (con't)

job well done as out-going president.

American Federation Officers were installed by Ed Romack as follows: President, Jim Hurlburt; Executive Vice President, Ruth Bailey; Jr. Regional Vice President, Dee Holland; Sr. Regional Vice President, Margaret Heinek; Secretary Ed Reis and Treasurer, Fred Schaefermeyer.

There were 56 Competitive displays and 16 Adult Trophies and 1 Junior Trophy were awarded in the American Federation and 9 Adult Trophies and 1 Junior Trophy were awarded in the midwest Federation. American Federation Trophies presented by Margaret Heinek were: Trophy #3 (Restricted Minerals) to David and Karen DuBruin of Oshkosh; Trophy #4 (Cabinet Minerals-3B) to Steven McNeiley of Albuquerque; Trophy #5 to David & Karen DuBruin for Restricted Minerals II; Trophy #6 (Minature Minerals) to Janet & Paul Clifford, Cleveland Heights; Trophy #8 (Thumbnails) to Carlton Davis, Columbus; Trophy #8 Junior (Thumbnails) to Amber Bullock; Trophy #9 Restricted Minerals IV) to Ronald Peller, So, California; Trophy #13 (Petrified Wood and/or Wood casts IV) to George Noble, Oklahoma; Trophy #14 (Cabochons III) to Thomas White; Trophy #17 (Cabochons I) to Barbara Jacobson, Tusawana; Trophy #18 (Cabochons II) to William J. Horton, Howell, Michigan; Trophy #20 (Faceted Gemstones) to William J. Horton; Trophy #21 (Specialized Lapidary) William Steinhauer; Trophy #27 (Educational I) to Birdie Nichols, Orange Village, OH; Trophy #28 (Educational II) to Barbara Davis; Trophy #30 to Patricia (? Very sorry I missed the last name) of Rochester; Trophy #38 Petrified Wood and/or Wood Casts I) to Margaret Heinek, Indiana.

Anne Cook presented Midwest Tophies to the Following: Trophy #1 (Open Division) to Kay Sharp; Trophy #3 (Restricted Minerals) to Kitty and George Judd, Moran, MI; Trophy #4 (Cabinet Minerals-3B) to Steven McNeiley, Albuquerque; Trophy #5 (Restricted Minerals II) to David and Karen DuBruin, Oshkosh; Trophy #8 (Thumbnails) to Carlton Davis, Ccolumbus; Trophy #8 Junior to Amber Bullock; Trophy #9 (Restricted minerals IV) to Carlton Davis, Columbus; Trophy #19 (Faceted Gemstones) to Karen Blizzard of Cincinnati; Trophy #28 to Mary Linder and Trophy #30 to Patricia (?) of Rochester.

Bernard and I wish to thank the Midwest Faceters Guild for the privilege of being the delegate and alternate for the Convention in Brunswick, Ohio.

Report submitted by Frances Bush, Delegate.

SAY YES TO :

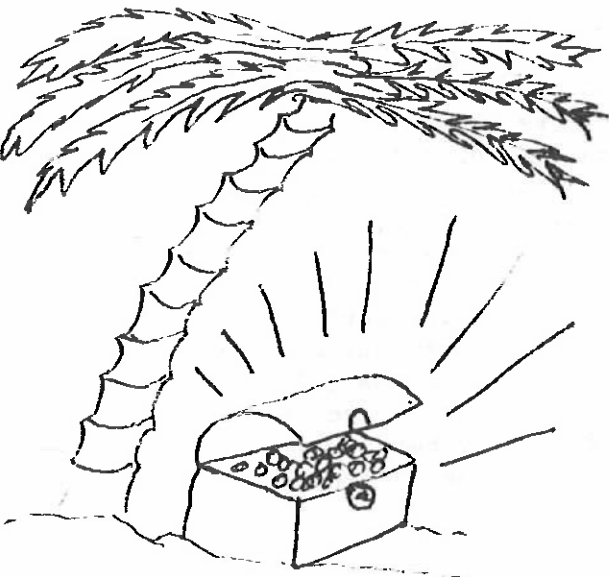
SAY YES TO THE MIDWEST FACETERS GUILD RAFFLE

BY DONATING A PRIZE

TO BECOME A TREASURED MOMENTO OF YOUR WORK

TO OTHERS!

Prizes do not have to be faceted items!



Cutting Tidbit

Nat Cohen

MODIFYING THE LEE FACETER. (O.K. Head Model).

Being a novice faceter; I've been at it for about a year, I was somewhat hesitant when the President of the local Mineral and Gem Society asked me to help out a member who was just starting out with a newly acquired Lee faceter. However as the President was a fellow Brit' I acquiesced, and Frank turned up with his machine and all the bits, eager and ready to find out the mysterious secrets of the craft.

I was more than interested in seeing this machine, as it was one the tentative choices I had made when considering getting my own machine, mainly due to cost, the other was the Graves for the same reason. As it happened my choice was more or less made when the machine I now own was offered for sale to me by another local faceter. I live in Nova Scotia, wherein lobsters and strawberries are in abundant supply in their season, faceting machines, and dealers thereof are scarcer than hen's teeth, and buying in the U.S. means trying to make a decision from a catalogue description, not at all like being able to actually examine the article, and in addition carries all kinds of surcharges; dollar exchange, customs duties etc.

Back to Frank and his problems. He didn't realise that he was to use as much of his lap as possible, and at the same time ensure a copious supply of water, that would eliminate some of the scratch problems he was having, but in any case, a 1200 grit Crystalite lap was a pre-polish lap, and would be inclined to cut aggressively as it was very new. He was expecting something approaching a polish. Lots of water and a light touch would help.

Next. "Well how was he supposed to know when to stop cutting" ?, "when you come down onto the stop" I explained. **BUT** there was a serious snag with this advice, the stop was an Allen headed screw butting onto the aluminum end of the protractor, and it was not at all easy to determine when the stop was really reached, moreover the advice that he should listen to the lap to determine when cutting ceased, wasn't all that practical either, as the motor used on this machine is a universal AC/DC type and is quite noisy.

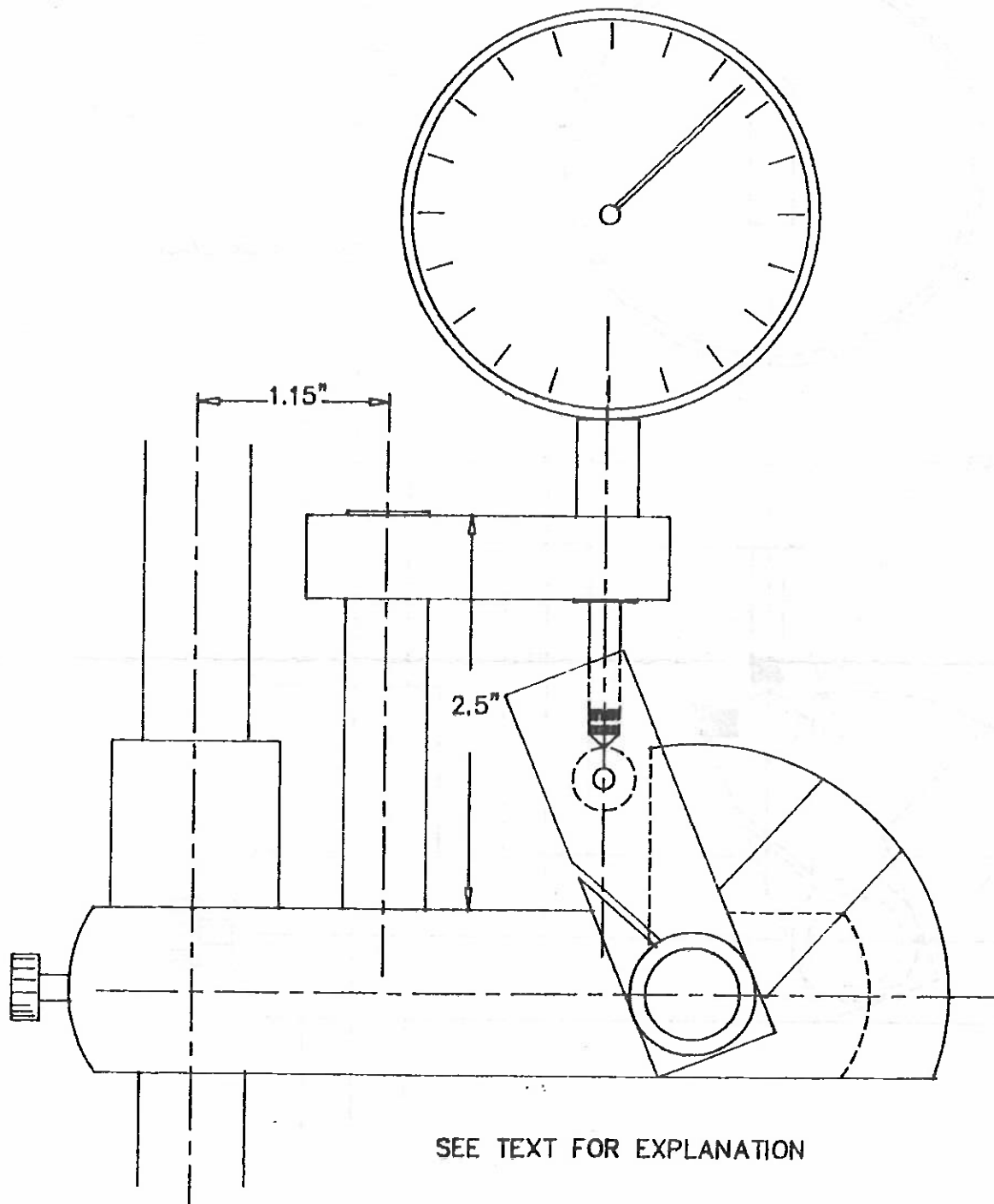
I was quite impressed with this little machine, in spite of it's drawbacks as mentioned above, because to offset them it had a lot of plus features, one of which; and this was very important. The method used for setting the angle and the stop arm, facilitate the use of a dial test indicator (D.T.I.) as a method of determining when to stop cutting. This is used by a lot of faceting machines, and is very helpful, although I have found from my own experience that it is not entirely foolproof, for this reason. The D.T.I. generally used reads to 0.001" (1 thousandth of an inch, or 1 thou). This may sound like a pretty fine resolution, but if on a pavilion angle of 45' an overcut of 1 thou is made on a main facet, after having cut in the girdle facets, it will be more than apparent because it will have moved the point of that facet some 23 thou towards the culet, and 0.023" is very noticeable. Lets say we reduce the overcut by a factor of 5 in other words the overcut is now only 2/10 ths of a thou, but dividing 0.023" by 5 is approximately 4 1/2 thou, again this will be noticed even

without a loupe by someone with good eyesight, and will certainly show up with a loupe even with indifferent eyesight, such as an older person like myself. The average commercial D.T.I. or "clock" as I tend to call it, is not capable of much better resolution than this, even on a 2 1/4" dia model, and on my machine; an Imperial Gem Instrument, Alpha Taurus, the dial is only 1 1/2" dia, and what with lost motion in the linkage, friction, etc, I would not trust it better than 2/10ths, if that. Having said all this however, a clock is extremely helpful, used in conjunction with "cut a little, look a lot". I suggested to Frank that if he was willing I would fit a D.T.I. to his machine, and this article describes how I did it, and I feel it is simple enough for other owners to do so given they have access to some basic tools, or can get someone to do the simple machining, and fitting for them. I should explain that the utility of the clock is realised on the Lee head, because the pin that actuates it allows the needle to show when the quill is past the required cut, so that cutting is stopped when the clock is calibrated to read '0'. Not all machines do this, the Graves for one, which is a great pity as another faceting friend of mine who is now very hard of hearing is almost to the point of giving up. I am trying to come up with some simple electronic method of determining when cutting should cease for him

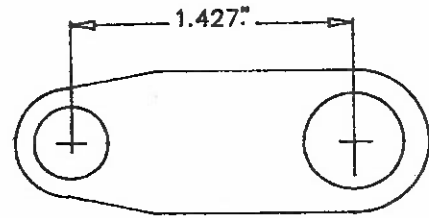
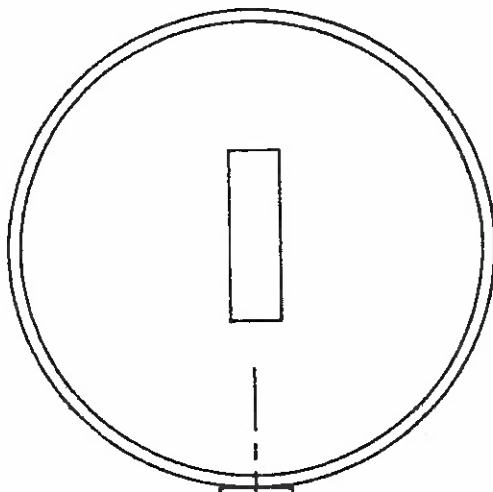
The Lee machine is an extremely simple one mechanically. I have drawn the main working parts to which this text refers, and as it is drawn full size, it should not be too difficult to follow. A 1" square arm is adjustable vertically on a 5/8" dia column. The business end of this arm is bushed horizontally and at right angle to accept a shaft, which has a square section milled in which the quill fits. Looking at the machine from the lap end, this assembly is on the right hand side of the arm. On the left hand side is fixed a quadrant marked in degrees 0 - 90, and the shaft extends through the centre of the quadrant. Fixed onto the shaft is an index arm with a vernier reading to 1/10th of a degree, and is exactly at 90 deg to the quill, the index and quill move together. At the side of the index arm, is another arm movable, and capable of being firmly tightened on the shaft, the other end of which has a 3/8" dia rod extending at 90 deg back over the 1" sq main arm, this rod is tapped so that a screw is in line with the centre of the back edge of the quadrant, and it is this screw with it's spring, which is used as the stop. The quill may be unclamped and lifted off the shaft at any time to inspect the stone. I rather like this idea, although how accurately it may be replaced could be open to question. Back to our modification. a 7/16" dia x 5/8" deep hole is drilled in the 1" sq arm at 1.15" from the centre of the 5/8" dia column hole, and in the centre of the arm. A shoulder 1/2" long is carefully cut in the lathe on a piece of 1/2" dia x 3" long ground stainless steel, or drill rod to fit into the 7/16" dia hole as a light press fit. This needs to be vertical off the top surface of the arm in both directions. Cut a bracket out of a piece of 1/2" thick aluminum, in my case I made this roughly 2 3/8" long and 7/8" wide, at the large end. This was tapered with radiused ends. Believe it or not I cut this on one of these Tawainese bandsaws running at the lower of it's two speeds, and I have a wonderful file called a dreadnought, which is like a hand milling machine on non ferrous metals. The holes must be reamed, one end 1/2" dia, the other 3/8" dia to take a standard D.T.I. I used a 2 1/2" dia one for Frank as the markings are easier to read than the smaller one, and

the cost was very right. The spindle of the D.T.I. contacts the top of the 3/8" dia rod in which the stop screw is fitted. The distance between the holes in the aluminum bracket should be 1.427", but if you make it 1 27/64" "a blind man on a runaway horse wont stop to take notice of it". The bracket will be slightly angled toward the quadrant to contact the rod which it is going to sense. Small hex socket grub screws (#6-32) are used to lock the bracket on its vertical spindle, and to clamp the D.T.I. Be very gentle with the latter, otherwise the D.T.I. will show reluctance to read at all. If you wish to be really mechanically correct, you could make an angled cut into the hole, similar to that used on the stop bracket arm of the machine, then use a socket head cap screw to clamp the cut. As far as the stop screw is concerned, this was given a nice smooth bull nosed radius on the end, and I took the quadrant off the arm, and carefully filed a small recess at the back where the screw made contact and fitted a slip of 1/16" thick stainless for the nose of the screw to come up against, a spot of epoxy, plus a very small screw (#0 - 80) held this in place. I used drill rod for my part, and simply heated it up until it turned blue and plunged it in oil, to match the existing finish. The D.T.I was carefully fitted to read square on, and to read '0' on the designated angle; further adjustment is easily obtained using the stop screw. I did want to mill a slot in the column, as I hate to see screw markings up a smooth surface, but Frank declined. I think he was starting to feel a bit embarrassed, he shouldn't have, I quite enjoyed doing it for him, and it must be working as he is very busy cutting, of all things glass marbles into faceted stones. I have now been retired for some years and got into doing jewellery quite serendipitously; but this is a whole different story. I was a mechanical design engineer in my other life. Although I have a perfectly good faceting machine I have been spending some very happy hours making myself another faceting machine down at the local machine shop; I needed a larger lathe than my own small one, plus I needed to use the mill which I don't have. This one is after the style of the Raytech machine, and is a very similar method of faceting that I watched the diamond cutters doing in Israel. You can pick the handpiece up to examine the stone from all directions, I think this is a rather nice feature, and look forward to getting it finished and in use. It is nearly complete, and I was hoping to bring with me to this years faceting seminar, but other things got in the way.

Nat Cohen
32 Roblea Drive
Darmouth, Nova Scotia
Canada B2W 1Y7

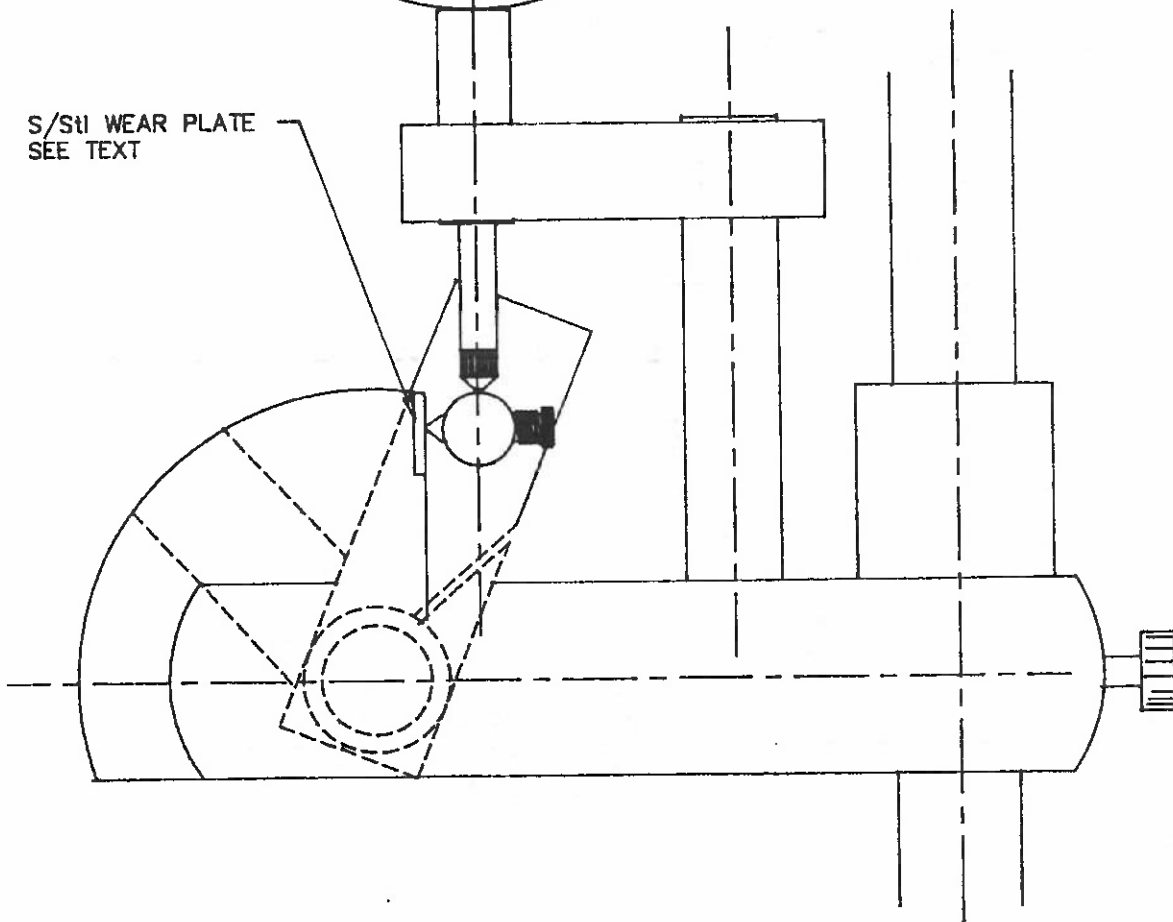


FRONT VIEW



TOP VIEW ON BRACKET

S/SII WEAR PLATE
SEE TEXT



BACK VIEW

Novice 11
96 Index Gear
Angles for Corundum

Crown:

- | | |
|-----------------------|-------------------|
| 1. 6 at 45.78° | 92,4,28,36,60,68. |
| 2. 3 at 36.00° | 96,32,64. |
| 3. 6 at 33.84° | 90,6,26,38,58,70. |
| 4. 6 at 27.36° | 92,4,28,36,60,68. |

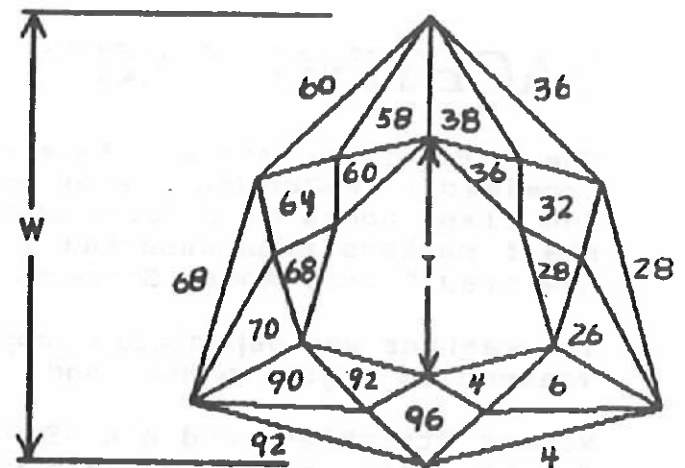
Table Area = 28.2 %

T/W = .5313

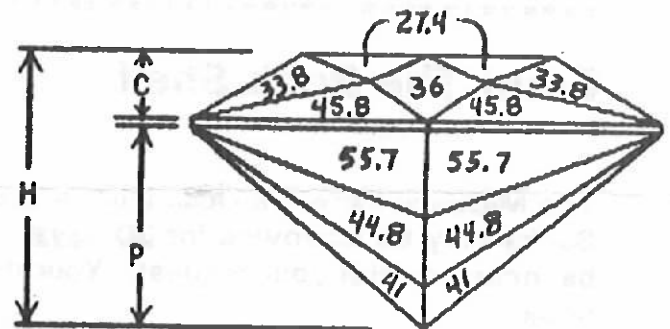
C/W = .1439

P/W = .4346

H/W = .5985



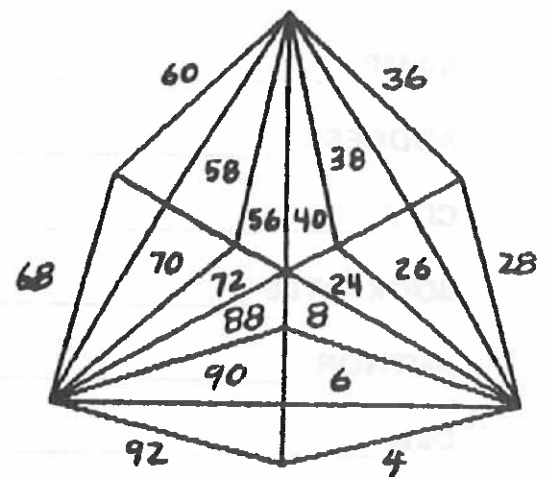
Cutting Angles in Degrees →



Pavilion:

- | | |
|-----------------------|-------------------|
| 1. 6 at 55.74° | 92,4,28,36,60,68. |
| 2. 6 at 44.80° | 90,6,26,38,58,70. |
| 3. 6 at 41.00° | 88,8,24,40,56,72. |

Designed by Fred W. Van Sant



FACETING FACTS FRIENDS FUN 1992

The 3rd Annual Midwest Faceters Guild Seminar was all that it promised ! **FACETING:** - over 680 hours of cutting. **FACTS:** - about 250 class hours of Judging and Gem Cad. **FRIENDS:** 65 students, 17 staff members plus assorted guests ! **FUN:** - **TONS** including the now traditional Moose Goosers.

The weather was especially cooperative giving everyone a beautiful weekend to enjoy in Hartland.

Robert Strickland and his GEMCAD program was the featured speaker for the Seminar and he did a great job!

Special THANKS goes to all of the Seminar Instructors for teaching- each of you did an EXCELLENT JOB!

Plan to join us next summer!

Mark your calendar - tentative dates: August 13-15, 1993

From The Book Shelf

Deb Stutts

The Midwest Faceters Guild Library is operating !

Books may be borrowed for 30 days. A deposit of \$ 10.00 per book is required to be included with your request. Your deposit will be refunded when you return your book.

Checks should be made payable to: Midwest Faceters Guild Library Fund

Questions directed to: Deb Stutts phone 517/835-9257

Donations to the library gladly accepted.

MWFG LIBRARY BOOK REQUEST

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

BOOK TITLE _____

AUTHOR _____

Date _____ Deposit \$ _____

EDITOR'S GEMS

**Bill Horton
Kathleen Myers**

** Autumn is here early it seems and the leaves in my yard are already getting their beautiful fall colors - I always try very hard to soak up the richness of fall hues to help make the winter a little more tolerable. It is hard these nice days to give the old faceting machine a hug when I would rather be out doors - I hope your work bench is next to a window!*

** WOW !! The Seminar was really GREAT - every year bigger and better! It is hard to believe that you could talk faceting ALL weekend and your neighbor did not think you were crazy !*

** Our apologies to Elery Holt for the misprints on his diagram of the L'Trianon Sphere Diagram - a corrected copy is printed in this issue.*

** While we are correcting things - there is NO cutting competition at the year's Faceters Fair - I guess we are so used to it being a part of the show the information was included without checking - sorry for any problem this may have caused.*

** The mail brings a request for two cuts "Spike Cut" and "The Christmas Star", if you have either of these will you please share.*

** The Calgary Faceters Guild will host the Northwest International Faceters Conference, May 22 - 23, 1993, in Calgary, Alberta Canada. For more information contact: Violette Merkley 2823 Canmore Road NW Calgary, Alberta Canada T2M 4J7*

** They say that exercise is good for you, but so is laughter-- and you don't have to see a doctor before you start !*

** Thanks go out to Nat Cohen of Nova Scotia for the article on the Lee Faceting machine in this issue. Nat inspired all at the seminar with his enthusiasm and interest in EVERYTHING - thanks Nat !*

** We are always looking for tips, diagrams, news and articles of interest to faceters for the bulletin PLEASE share with us all !*

** Don't forget the Midwest Faceters Fair October 30, 31 and November 1 -- See you there !!!*

1992-1993

MIDWEST FACETERS GUILD

October 1992

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

October

**3 1:00pm MIDWEST FACETERS GUILD
MEETING Dearborn, MI**

8 Detroit Gem & Mineral Show
24 Central Michigan Show Lansing, MI

**30 MIDWEST FACETERS GEM & JEWELRY
FAIR Dearborn, MI**

April 1993

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November 1992

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November

7 California Faceters Fair Sacramento, CA

February

10 Tucson Gemorama Tucson, AZ

August

14 4TH ANNUAL MWFG SEMINAR

May 1993

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December 1992

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June 1993

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January 1993

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July 1993

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February 1993

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28						

August 1993

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March 1993

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September 1993

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26	27	28	29	30		

1992 Midwest Faceters Fair GEM and JEWELRY SHOW

hosted by the
**Midwest Faceters
Guild**

OCTOBER 30
6 p.m. - 9 p.m.

OCTOBER 31
10 a.m. - 6 p.m.

NOVEMBER 1
10 a.m. - 5 p.m.

DONATION: \$2.50 ADULT
Children under 12 FREE
with paid adult admission

MIDWEST
FACETERS
GUILD

- OUTSTANDING EXHIBITS**
- NON-COMPETITIVE DISPLAYS
IN FACETED GEMS AND
RELATED JEWELRY
 - RETAIL DEALERS
 - DEMONSTRATIONS
 - FACETING MACHINE EXHIBIT
 - SPECIAL EXHIBITS •
HOW-TO-PROGRAMS

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TOURMALINE MINING
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Art Kalinski, Show Chairman • Phone: (313) 871-5610

William Horton, Exhibit Chairman
Phone: (517) 546-2159

Kathleen Myers, Co-Chairman
Phone: (517) 624-9178

DEALERS

- A & B Jewels & Tools,
Williamston, MI
- A & B Specialty, Co.,
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North Baltimore, OH
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Madison, WI
- Creative Gems,
Seagoville, TX
- Earle & Son,
Pearland, TX
- F & L Minerals,
Allen Park, MI
- Fowlers Wirewrapping,
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- Gemstone Creations,
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Bloomfield Hills, MI
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Loveland, CO
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- The Jewelry Depot,
Northfield, OH
- The Jewelry Shoppe,
Mt. Clemens, MI
- Mine Design,
Clarence, NY
- Jay Ross Minerals,
Millington, MI
- R & M Gems,
Algonac, MI
- Charles Kent Reaver
Southfield, MI
- Russell's Trees &
Treasures,
North Liberty, IN
- Silvertown,
Cleveland, OH
- SJ Gemstones,
Painted Post, NY

