



GEMKHANA 2022

COMPETITION SCHEDULE AND CONDITIONS

GEMKHANA 2022 – COMPETITION SCHEDULE AND CONDITIONS

GENERAL CONDITIONS

1. This is a Level 3 Competition and will be judged in accordance with the rules and definitions of the ***Competitor & Judging Manual for Lapidary and Allied Competitions Issue no. 8 April 2015.*** (referred to in this Schedule as the Manual), unless otherwise stated in this Schedule.
2. All competitors are advised to familiarise themselves with all the “Conditions for Competitors” in the Manual (particularly pages 5 to 13)
3. Competitors should be aware of, or check their eligibility to enter a Novice or Intermediate Division either by: -
 - Reading Section B4 of the manual (pages 6 & 7) relating to Competition Divisions, or by
 - checking the updated results list on the AFLACA website (<http://aflaca.org.au>)
4. Enquiries, correspondence and ALL POSTAL ENTRIES relating to this Competition should be directed to:

GEMKHANA Competition Committee 2022
P.O. Box 109
GyMEA NSW 2227
Phone enquiries to Colin Wright: 0418 286 003

5. Maximum number of entries allowed is two (2) per person per section except for Showcase Sections where only one entry per person is allowed.
6. It is the Competitor’s responsibility to ensure that their entries are entered in the correct section and that the sections are correctly marked on the Entry Form. If in doubt ring the Competition Committee.

However, the Competition Committee may transfer an entry into another section if they are of the opinion that it has obviously been enter in the incorrect section.

7. Entry Fees: - \$1.00 per entry for the first 10 entries, thereafter free.
(Payable by cheque or money order to Gem & Lapidary Council of NSW Inc)
8. All entries not being collected in person at the GEMKHANA must be accompanied by the **cost of return** post or **pre-paid post bag** included with the entry form (see Page 13).
9. While every care will be taken, the GEMKHANA 2022 Committee will not accept any responsibility for the loss or damage of any entries or exhibits that may occur in transit or whilst in the possession of the GEMKHANA 2022 committee.
10. Competitors and exhibitors are responsible for the insurance of their entries or exhibits while in transit, and whilst in the possession of the GEMKHANA 2022 Committee.

11. How to enter the Competition – Sections 1 to 4, 8 to 13 and 18 to 26

- a. Package up your entries to cushion them from damage whilst in transit – also see SC3.
- b. Fill out an official entry form – see page 13 of this Schedule.
- c. If you want acknowledgement of receipt of your entries, include a stamped, self-addressed envelope.
- d. Organise a cheque or money order payable to the Gem & Lapidary Council of NSW Inc for the entry fees (and return express postage if you are not collecting the entries in person at the Gemkhana.
- e. Submit your Entries + Entry Form + All fees to the Competition Committee.

This can either be: -

- By Express post to
GEMKHANA 2022 Committee
P.O. Box 109
GyMEA NSW 2227

They must be received by Friday 19th August 2022

- By hand delivery to
Port Hacking Lapidary Club
Rear 39 GyMEA Bay Rd.,
GyMEA

Between 8.00 am and noon on Saturday 20th August 2022

NOTE that late entries will not be eligible for competition and will be returned.

12. How to Enter the Competition – Sections 5, 16, 17, 29, 32, 34 and showcases

- a. Send your Entry Form and All Entry Fees to **arrive by Friday 19th August 2022** to:-
GEMKHANA 2022 Competition Committee
P.O. Box 109
GyMEA NSW 2227
- b. Hand deliver the entries to the Competition committee in the Competition Hall **at the GEMKHANA 2022 VENUE** between **1pm and 5pm on Friday 23rd September 2022**
- c. Note that entries in Sections 29, 32 & 34 must be set up and ready in the Exhibition Hall by **5.00pm Friday 23rd September 2022**

13. Judging, Judging Sheets and Entry Pickup

- a. Entries in Sections 1 to 4, 8 to 13, 18 to 26 will be judged prior to the GEMKHANA.
- b. Entries in Sections 5, 16, 17, 29, 32, and 34 will be judged at the GEMKHANA.
- c. Judging Sheets may be collected from the Competition Office between 10am and 12 noon on **Sunday 25th September 2022**
- d. Entries may be collected between 6pm and 7pm on **Sunday 2nd September 2022**
- e. Entries not collected will be returned to the competitor in the manner specified on the entry form together with the applicable judging sheets.

14 SPECIAL CONDITIONS (SC)

SCI – Sizes and Tolerances

Where an entry does not conform to the size conditions in this Schedule or the Manual it will be ruled ineligible and not judged. Refer to section definitions in the Schedule and the Manual for allowable tolerances.

SC2 – Carving (Section 5)

Each entry must have a label which best describes the exhibit for the viewer's interest including the material used. These labels will not be judged.

SC3 - Facet Entries (Section 8 to 11)

- a. All chosen designs have either been previously used in competitions or have been successfully test cut using instructions given
- b. **ALL** Facets are **FLAT**, any entry with Concave or Curved facets (except Section 8A continuous girdle) will be disqualified and will NOT be judged.
- c. **Minimum size** is 6mm measured across shortest axis of outline shape at the girdle, or as indicated on design sheet.
- d. Each faceted stone must be entered in a display box and this box must contain a label which contains only the following details:
 - Section Number
 - Material used
 - Colour of material
 - Size

SC4 – Tumbled Stones (Section 12A)

Please read page 19 (D2.2) and page 55 (D12.1) of the Manual for definition of this section.

SC5 – Jewellery (Sections 18 – 26)

Competitors should carefully read Part E of the Manual in relation to all Jewellery Sections.

15 TROPHIES AND MEDALLIONS

1. Medallions and prize cards will be awarded for 1st, 2nd, and 3rd placed entries. Highly Commended will receive a prize card only.
2. At the Committee's discretion, where there are insufficient entries in a Novice or Intermediate Sections, a Special Award May be nominated and such an award will not exclude a competitor from entering the same section in future competitions.
3. To be eligible in winning a 'Dick Moppett Trophy: in faceting, entries must achieve a minimum of 70 points for Novice and 90 points for Open.
4. Annual Trophies may be awarded in the following categories: -

SPECIAL ONE-OFF TROPHIES

Donated by Gem & Lapidary Council of NSW

- Section N-1A.3 Novice Standard Cabochon -C/S-Highest Score
Section O-13.1 Open Polished Face-Flat Surface-Highest Score
Section N-19A.2 Novice Cast Jewellery not intended to include
Lapidary, Fossil or Mineral Item/s-Highest Score

THE JOAN BALL TROPHIES

- Section O-26B.1 Open Enamelled Jewellery without Mount
-Highest Score
Section O-17.1 Open Novelty Gemcraft-Highest Score

THE ALAN COULTON TROPHY

- Section O-20A.1 Open Cast Jewellery using Natural Objects as Patterns
-Highest Score

5. Perpetual Trophies may be awarded for the following :-

THE BORIS NOVIC TROPHY

Section O-2A.1 The competitor with the highest score in Section O-2A.1 Double Standard Cabochon – C/S

THE DICK MOPPETT TROPHY – NOVICE

Sections N-8B.3 & N-9A.3 For the Novice competitor with the highest aggregate point for two (2) faceted stones - one shall be **STANDARD BRILLIANT** and the other a **STANDARD STEP CUT**. Note that each entry must achieve a minimum standard of **70 points**.

THE DICK MOPPETT TROPHY – OPEN

Sections O-8B.1 & O-9A.1 For the Open Competitor with the highest aggregate points for two (2) faceted stones – one shall be **STANDARD BRILLIANT** and the other a **STANDARD STEP CUT**. Note that each entry must achieve a minimum standard of **90 points**.

THE ARTHUR ROFFEY TROPHY for “BEST MINERAL IN SHOW”

(As selected by the donor)

THE FRANK LANDER TROPHY for MOST SUCCESSFUL COMPETITOR

Points are awarded as:- 1st place – 6 points 2nd place – 4 points 3rd place – 2 points .
Highly Commended = 1 point. Special Award – 6 points

THE FRANK HALL TROPHY for MOST SUCCESSFUL CLUB

Points awarded as:- 1st place – 6 points, 2nd place – 4 points, 3rd place – 2 points.
Highly commended – 1-point, Special award – 6 points. Entries within 75% of the winning entry's score – 1 point.

GEMKHANA 2022 – COMPEITION SCHEDULE AND CONDITIONS

Judging will be in accordance with the AFLACA Competition and Judging Manual Issue No. 8

O= Open I = Intermediate N = Novice J = Junior TR = Trophy

C/S = Craftsmanship A/A = Aesthetic Appeal SC = Special Condition Applies

Standard Cabochon – Must not pass through a 15mm hole (SCI)

O-1A.1	Standard Cabochon	C/S – Any Material	
I-1A.2	Standard Cabochon	C/S – Any Material	
N-1A.3	Standard Cabochon	C/S – Any Material	TR
J-1A.4	Standard Cabochon	C/S - Any Material	
O-1A.5	Standard Cabochon	A/A Ribbon Stone	
I-1A.6	Standard Cabochon	A/A Ribbon Stone	
N-1A.7	Standard Cabochon	A/A Ribbon Stone	
J-1A.8	Standard Cabochon	A/A Ribbon Stone	

Fancy Cabochon – Minimum Dimension to be not less than 30mm on the longest Dimension across the outline shape (SCI)

O-1B.1	Fancy Cabochon	C/S – Mookaite	
I-1B.2	Fancy Cabochon	C/S – Mookaite	
N-1B.3	Fancy Cabochon	C/S – Mookaite	
J-1B.4	Fancy Cabochon	C/S – Any Material	
O-1B.5	Fancy Cabochon	A/A – Any Material	
I-1B.6	Fancy Cabochon	A/A – Any Material	
N-1B.7	Fancy Cabochon	A/A – Any Material	
J-1B.8	Fancy Cabochon	A/A – Any Material	

Double Standard Cabochon - must not pass through a 15mm hole (SCI)

O-2A.1	Double Standard Cabochon	C/S – Any material	TR
I-2A.2	Double Standard Cabochon	C/S – Any material	
N-2A.3	Double Standard Cabochon	C/S – Any material	

Double Fancy Cabochon – Must not pass through a 15 mm hole (SCI)

O-2B.1	Double Fancy Cabochon	C/S – Any Material	
I-2B.2	Double Fancy Cabochon	C/S – Any Material	
N-2B.3	Double Fancy Cabochon	C/S – Any Material	

Freeform – Must not pass through 15mm hole (SCI)

O-3.1	Freeform	C/S – Any Material
I-3.2	Freeform	C/S – Any Material
N-3.3	Freeform	C/S – Any Material
J-3.4	Freeform	C/S – Any Material

Freeform – Must not pass through 10mm hole (SCI)

O-3.5	Freeform	C/S – Opal Solid
N-3.6	Freeform	C/S – Opal Solid

Opal Doublets- Must not pass through 10mm hole (SCI)

O-4A	Opal Doublet – Flat Top
O-4B	Opal Doublet – Domed Top

Carving – Hardness under 4 – Minimum size 50mm on the longest dimension (excluding base or mount) – Maximum size 300mm (including base of mount) (SCI and SC2)

O-5A.1	Carving – 3 dimensional
N-5A.2	Carving – 3 dimensional

Carving – Any Hardness – Minimum size 50mm on the longest dimension (excluding base or mount) Maximum size 300mm (including base or mount) (SC1 and SC2)

O-5B.1	Carving – in relief
N-5B.2	Carving – in relief

Carving – any hardness – minimum size 50 mm on the longest dimension (excluding base or mount) – maximum size 300mm (including base or mount) (SCI and SC2)

O-5E.1	Carving not otherwise specified in Groups 5A to 5D
N-5E.2	Carving not otherwise specified in Groups 5A to 5D

Facet Cuts – Minimum size 6mm on shortest axis of outline shape – Groups 8, 9, 10 and 11 – (SC1 and SC3)

O-8B.1 I-8B.2 N-8B.3 Standard Round Brilliant with Faceted girdle **Colourless Topaz TR**

O-9A.1 I-9A.2 N-9A.3 Oblong Step Cut with Cut corners **MM Coloured Cubic Zirconia TR**

O-10.1 Modified Standard Cut – OLD MINE **MM Colourless Topaz**

O-10.2 Modified Standard Cut – EVENT HORIZON **Any Quartz**

I-10.3 Modified Standard Cut– FANCY HEXAGONAL BRILLIANT **MM Coloured Spinal**

I-10.4 Modified Standard Cut – SQUARE EMERALD **MM Coloured Corundum**

N-10.5 Modified Standard Cut – TROTTOLA **Any Quartz**

N-10.6 Modified Standard Cut – SIMPLE ROUND BRILLIANT **Any Quartz**

O-11.1 Fancy Cut – APEX WHEEL **MM Coloured Cubic Zirconia**

I-11.2 Fancy Cut – MINI HEXAGON APEX **MM Coloured Cubic Zirconia**

N-11.3 Fancy Cut - APHEX **Any Quartz**

Tumbled Stones – must not be able to pass through a 15mm diameter hole (SC4)

O-12A.1 Tumbled Stones – Preformed Shape Group of 3- different materials

N-12A.2 Tumbled Stones – Preformed Shape Group of 3 – Any material

O-12B.1 Tumbled Stones- Natural Shape Group of 3- Any material

N-12B.2 Tumbled Stones- Natural Shape Group of 3- Any Material

Polished Face – Minimum size 50mm across shortest axis – Maximum size 300mm on any dimension

O-13.1 Polished Flat Surface C/S **TR**

N-13.2 Polished Flat Surface C/S

J-13.3 Polished Flat Surface C/S

O-14.1 Polished Curved Surface A/A

N-14.2 Polished Curved Surface A/A

J-14.3 Polished Curved Surface A/A

Gem Trees - must fit in 300mm cube but must not fit in a 150mm cube (SC1)

O-16.1 Gem Tree

N-16.2 Gem Tree

Novelty Gemcraft – Minimum size 50mm on the longest dimension excluding base (SC1)

O-17.1	Novelty Gem craft	TR
N-17.2	Novelty Gem craft	

Hand Fabricated and Wire Wrapped Jewellery (SC5)

O-18A.1	Hand Fabricated Jewellery	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)
I-18A.2	Hand Fabricated Jewellery –	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)
N-18A.3	Hand Fabricated Jewellery –	NOT intended to include Lapidary, Fossil or Mineral Specimen (s)
O-18B.1	Hand Fabricated Jewellery--	WITH lapidary Item (s) cut and set by entrant
I-18B.2	Hand Fabricated Jewellery –	WITH lapidary item(s) cut and set by entrant
N-18B.3	Hand Fabricated Jewellery –	WITH lapidary item(s) cut and set by entrant
O-18E.1	Wire Wrapped Jewellery-	WITH Lapidary, Fossil or Mineral Items(s) prepared/ set by entrant
N-18E.2	Wire Wrapped Jewellery	WITH Lapidary. Fossil or Mineral Item (s) prepared/ Set by entrant

Cast Jewellery – using Patterns, mould or Dies MADE BY ENTRANT (SC5)

O-19A.1	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)
N-19A.2	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s) TR

Metal Clay Jewellery – using Patterns, Moulds or Dies MADE BY ENTRANT(SC5)

O-19E.1	Metal Clay Jewellery	NOT intended to include Lapidary, Fossil or Mineral Item(s)
N-19E.2	Metal Clay Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)

Cast Jewellery – using Natural Objects as Patterns (SC5)

O-20A.1	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s) TR
N-20A.2	Cast Jewellery	NOT intended to include Lapidary Fossil or Mineral Item(s)

Metal Clay Jewellery – using natural Object as Patterns (SC5)

O-20E.1	Metal Clay Jewellery	NOT intended to include lapidary, fossils or minerals
N-20E.2	Metal Clay Jewellery	NOT intended to include lapidary, fossils or minerals

Cast Jewellery – using Commercial Wax Models or Patterns (SC5)

O-21B.1 Cast Jewellery **WITH** Lapidary Item(s) Cut and Set by Entrant
N-21B.2 Cast Jewellery **WITH** Lapidary Item(s) Cut and Set by Entrant

Metal Clay Jewellery – using Commercial Wax Models or Patterns (SC5)

O-21G.1 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant
N-21G.2 Metal Clay Jewellery **WITH** Commercial Lapidary Item(s) set by Entrant

Combined Jewellery – with Lapidary Items cut and set by Entrant (SC5)

O-23B.1 Combined Jewellery **WITH** lapidary items cut & set by Entrant

Enamelled Jewellery in Hand Fabricated Setting (SC5)

O-24A.1 Enamelled Jewellery in hand fabricated setting
N-24A.2 Enamelled Jewellery in hand fabricated setting

Commercial Mount Jewellery (SC5)

O-25.1 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant
I-25.2 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant
N-25.3 Commercial Mount Jewellery **WITH** Lapidary item(s) cut and set by entrant

Enamelling Sections (SC5)

O-26A.1 Enamelled Jewellery in Commercial Mount
N-26A.2 Enamelled Jewellery in Commercial Mount
O-26B.1 Enamelled Jewellery without Mount **TR**
N-26B.2 Enamelled Jewellery without Mount
O-26C.1 Enamelling – non-Jewellery
N-26C.2 Enamelling – non-Jewellery

Showcases

O-29B.1 Showcase General – LIT

Fossils

O-32A.1 Fossils Non-Display – Any Locality

N-32A.2 Fossils Non-Display Any locality

O-32B.1 Fossils Non-Display Group of 3 Invertebrates

N-32B.2 Fossils Non-Display Group of 3 Invertebrates

Minerals

O-34A.1 Mineral Non-Display Single Specimen Any Locality Cabinet Size

N-34A.2 Mineral Non-Display Single Specimen Any Locality Cabinet Size

O-34A-3 Mineral Non-Display Single Specimen Any Locality Miniature

N.34A.4 Mineral Non-Display Single Specimen Any Locality Miniature

O-34B.1 Mineral Non -Display Group of Three Any Locality Thumbnail

N-34B.2 Mineral Non -Display Group of Three Any Locality Thumbnail

GEMKHANA 2022 OFFICIAL COMPETITION FORM

**Mail to: The Competition Committee
PO Box 109, Gynea NSW 2227**

Postal Entries: All Entry Forms and fees- must be **RECEIVED BY THE COMMITTEE** by Friday 19th August 2022

Hand delivered: Entries-Saturday 20th August 2022 (8.00am to Noon) at Port Hacking Lapidary Club

COMPETITOR DETAILS Name:

Email:

Address

State: Postcode..... Personal Contact No

Full Club Details:

For Juniors Only, Date of Birth:/...../..... (NB: Must be under 16 at 16th August 2022)

ENTRY SUMMARY AND FEES (Cheques made payable to Gem and Lapidary Council of NSW Inc)

No of Entries: Are entries to be returned by mail? (Circle) Yes/No

Entry Fees-\$1.00 per entry for first ten entries, thereafter free Amount \$.....

Return Postage- Registered \$.....

Total Amount Enclosed \$.....

Signature of Competitor:

ENTRIES BY SECTION- Postal (by Friday 19/08/22 and Drop off (Saturday 20/08/22									
Section No	Entries (1or2)	Section No	Entries (1or2)	Section No	Entries (1or2)	Section No	Entries (1or2)	Section No	Entries (1or2)
O-1A.1		I-1A.2		N-1A.3		J-1A.4		O-1A.5	
I-1A.6		N-1A.7		J-1A.8		O-1B.1		I-1B.2	
N-1B.3		J-1B.4		O-1B.5		I-1B.6		N-1B.7	
J-1B.8		O-2A.1		I-2A.2		N-2A.3		O-2B.1	
I-2B.2		N-2B.3		O-3.1		I-3.2		N-3.3	
J-3.4		O-3.5		N-3.6		O-4A		O-4B	
O-8B.1		I-8B.2		N-8B.3		O-9A.1		I-9A.2	
N-9A.3		O-10.1		O-10.2		I-10.3		I-10.4	
N-10.5		N-10.6		O-11.1		I-11.2		N-11.3	
O-12A.1		N-12A.2		O-12B.1		N-12B.2			
O.13.1		N-13.2		J-13.3		O-14.1		N-14.2	
J-14.3		O-18A.1		I-18A.2		N-18A.3		O-18B.1	
I-18B.2		N-18B.2		O-18E.1		N-18E.2		O-19A.1	
N-19A.2		O-19E.1		N-19E.2		O-20A.1		N-20A.2	
O-20E.1		N-20E.2		O-21B.1		N-21B.2		O-21G.1	
N-21G.2		O-23B.1		O-24.1		N-24A.2		O-25.1	
I-25.2		N-25.3		O-26A.1		N-26A.2		O-26B.1	
N-26B.2		O-26C.1		N-26C.2					

ENTRIES BY SECTIONS- Delivered and Setup by Entrant at Gemkhana (Friday 23/09/22)									
Section No	Entries 1or2	Section No	Entries 1or2	Section No	Entries 1or2	Section No	Entries 1or2	Section No	Entries 1or2
O-5A.1		N-5A.2		O-5B.1		N-5B.2		O-5E.1	
N-5E.2		O-16.1		N-16.2		O-17.1		N-17.2	
O-29B.1		O-32A.1		N-32A.2		O-32B.1		N-32B.2	
O-34A.1		N-34A.2		O-34A.3		N-34A.4		O-34B.1	
N-34B.2									

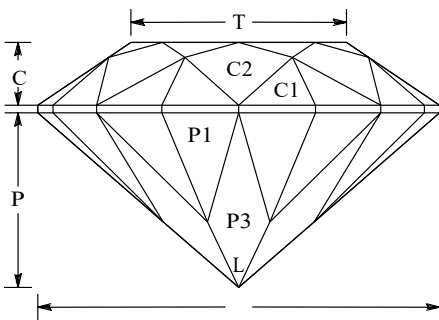
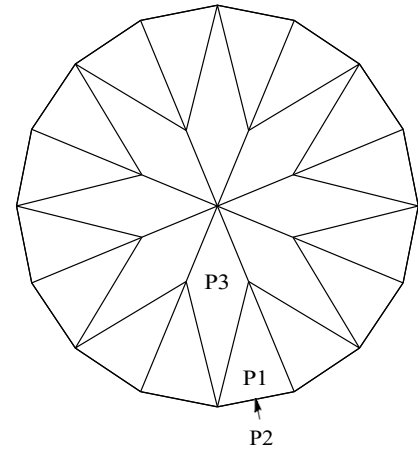
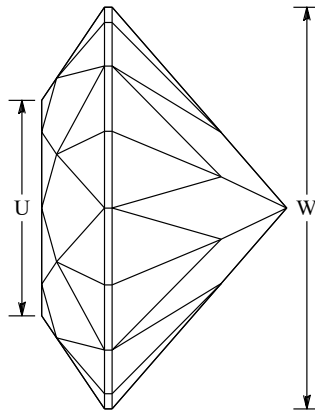
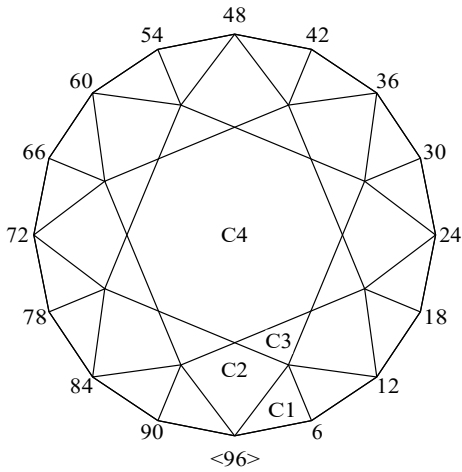
GEMKHANA 2022

Section: O-8B.1 I-8B.2 N-8B.3

Material: Colourless Topaz

Facets: 57 + 16 Girdle (Crown = 33 Pavilion = 24)

Meets: 57 (Crown = 32 Pavilion = 25)



Angles for R.I. = 1.610

8-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.536$ $U/W = 0.536$

$P/W = 0.435$ $C/W = 0.156$

$Vol./W^3 = 0.205$

PAVILION

P1	42.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Cut to form TCP
P2	90.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Set stone size
P3	40.00°	96-12-24-36-48-60-72-84	Meet P1 at girdle a form PCP

CROWN

C1	46.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93	Set girdle thickness
C2	38.00°	96-12-24-36-48-60-72-84	Meet C1 at girdle
C3	23.00°	06-18-30-42-54-66-78-90	Meet C1-C2
C4	0.00°	Table	Meet C2-C3

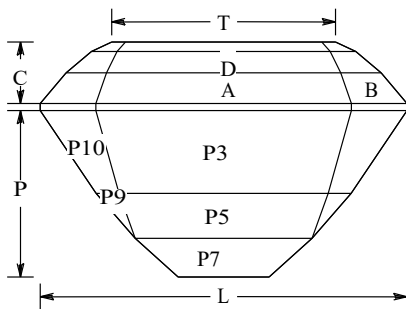
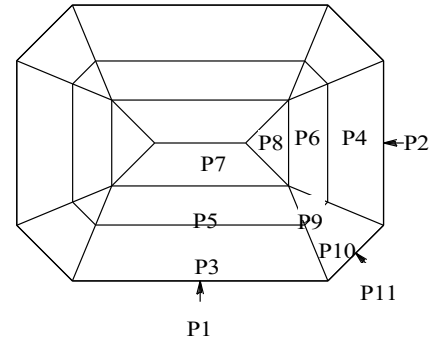
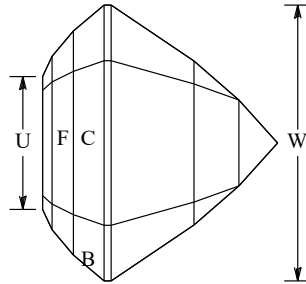
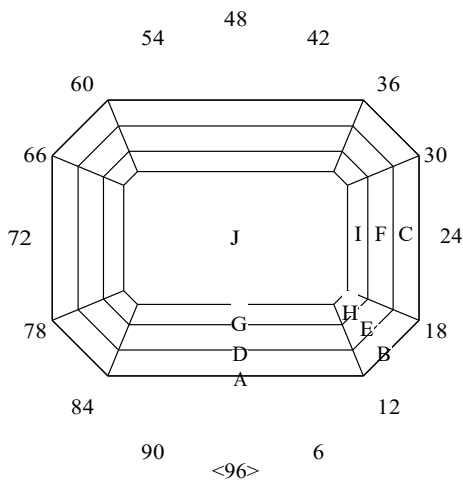
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Section : O-9A-1 I-9A-2 N-9A-3

Material : MM Coloured Cubic Zirconia

Facets : 45 + 8 Girdle = 53 (Crown 25 Pavilion = 20)

Meets : 44 (Crown = 24 Pavilion = 20)



Angles for R.I. = 2.160

2-fold, mirror-image symmetry

96 index

$L/W = 1.330$ $T/W = 0.812$ $U/W = 0.482$

$P/W = 0.604$ $C/W = 0.223$

$Vol./W^3 = 0.555$

PAVILION

P1	90.00°	96-48	Set length of stone
P2	90.00°	24-72	Set width of stone
P3	56.00°	96-48	Set girdle line
P4	56.00°	24-72	Level girdle
P5	49.00°	96-48	Cut width (approx 1/3rd)
P6	49.00°	24-72	Meet P5
P7	42.00°	96-48	Cut width (approx 1/3rd)
P8	42.00°	24-72	Meet P7
P9	49.00°	12-36-60-84	Meet P8-P7
P10	56.00°	12-36-60-84	Meet P6-P5
P11	90.00°	12-36-60-84	Level girdle

CROWN

A	50.00°	96-48	Set girdle girdle thickness
B	50.00°	12-36-60-84	Level girdle
C	50.00°	24-72	Level girdle
D	40.00°	96-48	Cut to width required
E	40.00°	12-36-60-84	Meet D
F	40.00°	24-72	Meet E
G	25.00°	96-48	Cut to width required
H	25.00°	12-36-60-84	Meet G
I	25.00°	24-72	Meet H
J	0.00°	Table	

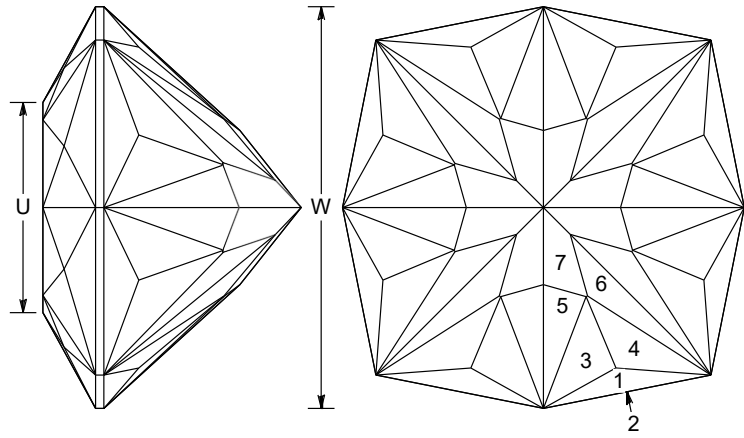
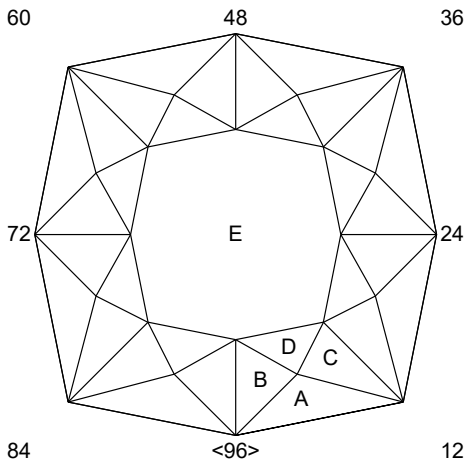
GEMKHANA 2022

Section: O-10.1

Material: Colourless Topaz

Facets: 81 + 8 Girdle = 89 (Crown = 33 Pavilion = 48)

Meets: 49 (Crown = 24 Pavilion = 25)



OLD MINE

Designer : Steve & Nancy Attaway

Angles for R.I. = 1.610

81 + 8 girdles = 89 facets

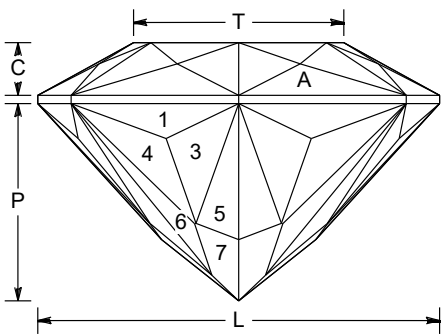
4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.523$ $U/W = 0.523$

$P/W = 0.491$ $C/W = 0.131$

$Vol./W^3 = 0.239$



PAVILION

1	53.77°	03-21-27-45- Cut to TCP 51-69-75-93
2	90.00°	03-21-27-45- Size & level girdle 51-69-75-93
3	48.67°	02-22-26-46- Meet 1 @ girdle 50-70-74-94
4	47.91°	04-20-28-44- Meet 1 @ girdle 52-68-76-92
5	47.74°	01-23-25-47- Meet @ girdle 49-71-73-95
6	41.02°	10-14-34-38- Meet @ girdle 58-62-82-86
7	39.00°	03-21-27-45- Form PCP 51-69-75-93

CROWN

A	33.18°	03-21-27-45- Set girdle thickness 51-69-75-93
B	28.84°	01-23-25-47- Meet A @ girdle 49-71-73-95
C	27.45°	05-19-29-43- Meet A @girdle 53-67-77-91
D	24.79°	03-21-27-45- Meet A, B, C 51-69-75-93
E	0.00°	Table Meet B, C, D

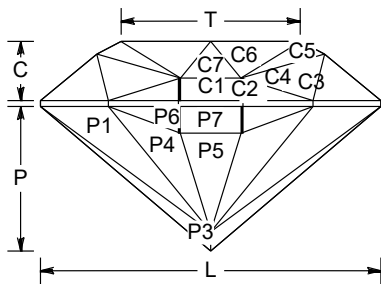
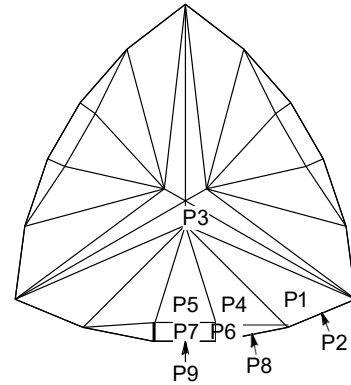
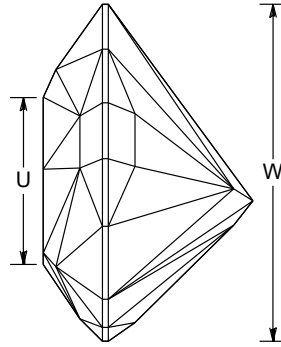
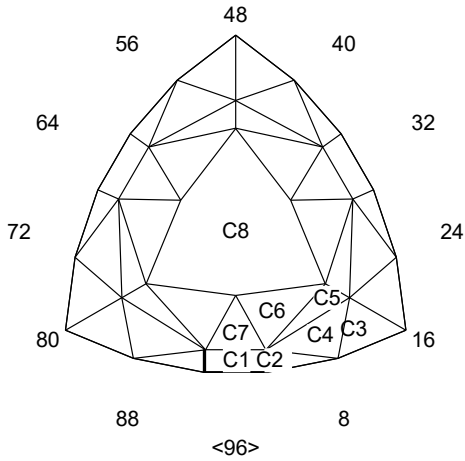
GEMKHANA 2022

Section: O-10.2

Material: Any Quartz

Facets: 67 + 15 Girdle (Crown = 37 Pavilion = 30)

Meets: 55 (Crown = 30 Pavilion = 25)



EVENT HORIZON

Designer : Arya Akhavan

Angles for R.I. = 1.540

67 + 15 girdles = 82 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.011$ $T/W = 0.531$ $U/W = 0.495$

$P/W = 0.429$ $C/W = 0.176$

$Vol./W^3 = 0.190$

PAVILION

P1	43.19°	06-26-38-58-70-90
P2	90.00°	06-26-38-58-70-90
P3	41.50°	07-25-39-57-71-89
P4	44.04°	05-27-37-59-69-91
P5	45.37°	96-32-64
P6	55.00°	03-29-35-61-67-93
P7	55.00°	96-32-64
P8	90.00°	03-29-35-61-67-93
P9	90.00°	96-32-64

Cut to TCP
Set Stone Size
Meet P & form PCP
Meet P3
Meet P3
Meet P1, P4, P5
MEET P4, P5, P6
Level Girdle
Level Girdle

CROWN

C1	45.00°	96-32-64	Set Girdle Thickness
C2	45.00°	03-29-35-61-67-93	Level Girdle
C3	41.95°	06-26-38-58-70-90	Level Girdle
C4	39.84°	04-28-36-60-68-92	Meet C2, C3 @ girdle
C5	34.53°	03-29-35-61-67-93	Meet C1, C2, C4
C6	32.36°	02-30-34-62-66-94	Meet C1, C2, C4, C5
C7	33.98°	96-32-64	Meet C1, C2, C4, C5, C6
C8	0.00	Table	

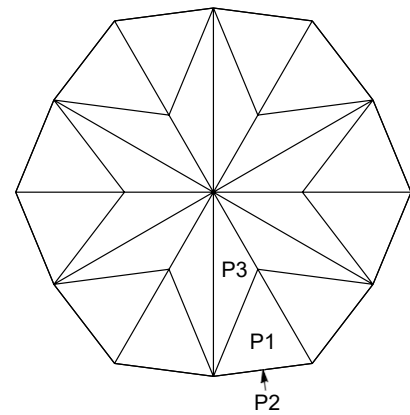
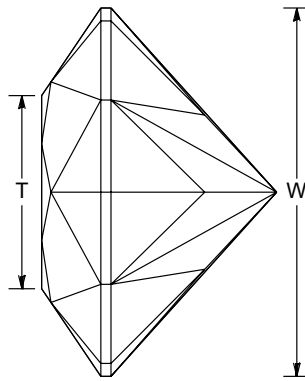
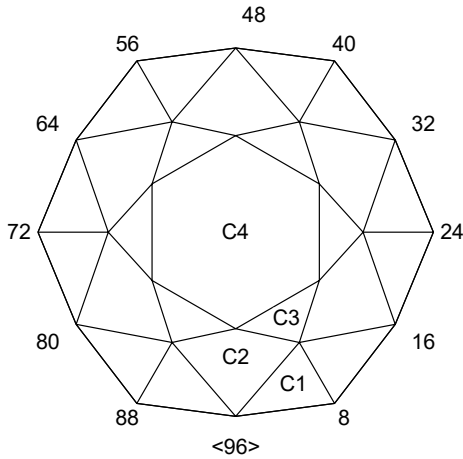
GEMKHANA 2022

Section: I-10.3

Material: MM Coloured Spinel

Facets: 49 + 12 Girdle = 61 (Crown = 25 Pavilion = 24)

Meets: 43 (Crown = 24 Pavilion = 19)



FANCY HEXAGONAL BRILLIANT

Designer Jim Perkins

Angles for R.I. = 1.720

49 + 12 girdles = 61 facets

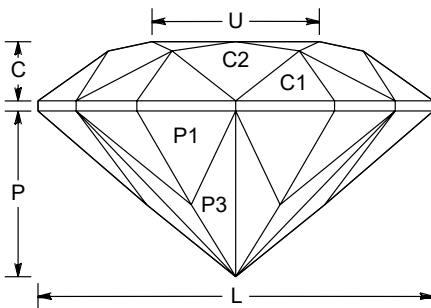
6-fold, mirror-image symmetry

96 index

$L/W = 1.073$ $T/W = 0.524$ $U/W = 0.454$

$P/W = 0.449$ $C/W = 0.161$

$Vol./W^3 = 0.225$



PAVILION

P1	43.00°	02-14-18-30-34-46- 50-62-66-78-82-94	Cut toTCP
P2	90.00°	02-14-18-30-34-46- 50-62-66-78-82-94	Set Stone Size
P3	42.00°	01-15-17-31-33-47- 49-63-65-79-81-95	Meet P1 & Form PCP

CROWN

C1	37.50°	02-14-18-30-34-46- 50-62-66-78-82-94	Set Girdle thickness
C2	34.00°	96-16-32-48-64-80	Meet C1 @ girdle
C3	12.00°	08-24-40-56-72-88	Meet C1-C2
C4	0.00°	Table	Meet C2-C3

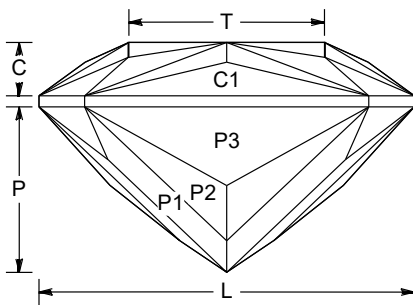
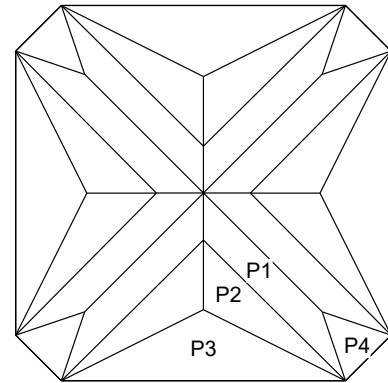
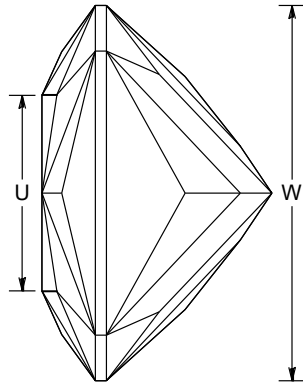
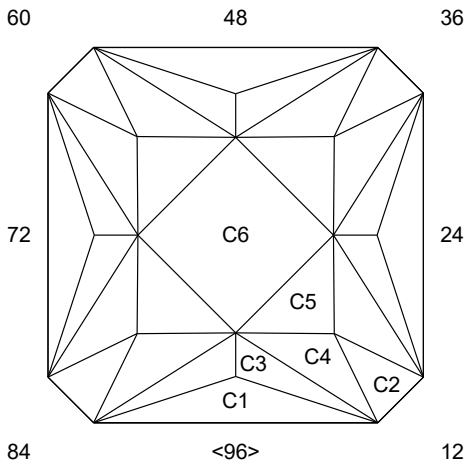
GEMKHANA 2022

Section: I-10.4

Material: MM Coloured Corundum

Facets: 53 + 8 girdle = 61 (Crown = 29 Pavilion = 24)

Meets: 29 (Crown = 16 Pavilion = 13)



SQUARE EMERALD

Designer: Jim Perkins

Angles for R.I. = 1.760

53 + 8 girdles = 61 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.521$ $U/W = 0.521$

$P/W = 0.441$ $C/W = 0.142$

$Vol./W^3 = 0.264$

PREFORM

40.01°	96-24-48-72	Cut to TCP
90.00°	96-24-48-72	Set stone width
34.04°	12-36-60-84	Cut to TCP
90.00°	12-36-60-84	Level girdle

PAVILION

P1	36.00°	06-18-30-42-54-66-78-90	Cut to new PCP
P2	38.95°	03-21-27-45-51-69-75-93	Meet G1-G2
P3	47.94°	96-24-48-72	Meet G1-G2-P2
P4	38.95°	12-36-60-84	Level girdle

CROWN

C1	36.00°	96-24-48-72	Set Girdle thickness
C2	22.25°	12-36-60-84	Level girdle
C3	24.70°	03-21-27-45-51-69-75-93	Meet C1-C2-G1-G2
C4	21.20°	06-18-30-42-54-66-78-90	Meet C2-C3-G1-G2
C5	12.00°	12-36-60-84	Meet C3-C4-C5
C6	0.00°	Table	

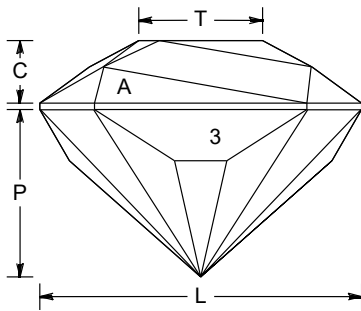
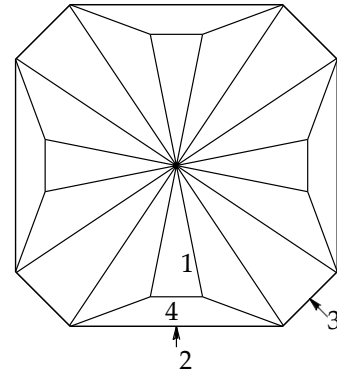
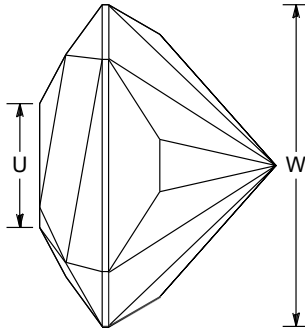
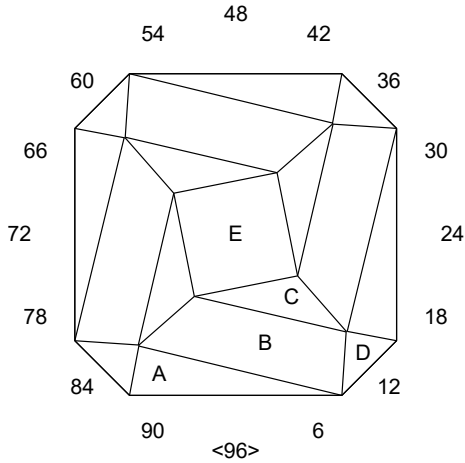
GEMKHANA 2022

Section: N-10.5

Material: Any Quartz

Facets: 37 + 8 Girdle = 45 (Crown = 17 Pavilion = 20)

Meets: 25 (Crown = 16 Pavilion = 9)



TROTTOLA

Author Marco Voltolini

Angles for R.I. = 1.540

37 + 8 girdles = 45 facets

4-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.384$ $U/W = 0.384$

$P/W = 0.520$ $C/W = 0.195$

$Vol./W^3 = 0.297$

PAVILION

1	41.50°	96-06-12-18- FormTCP 24-30-36-42- 48-54-60-66- 72-78-84-90
2	90.00°	96-24-48-72 Set stone size
3	90.00°	12-36-60-84 Set stone size
4	60.00°	96-24-48-72 Mett P1-P1 at girdle

CROWN

A	36.19°	96-24-48-72 Set girdle thickness
B	30.00°	01-25-49-73 Meet A at girdle
C	22.13°	03-27-51-75 MeetA-B
D	41.00°	12-36-60-84 Meet B-C
E	0.00°	Table

Note:- Rotation of Crown spiral in either direction will be eligible

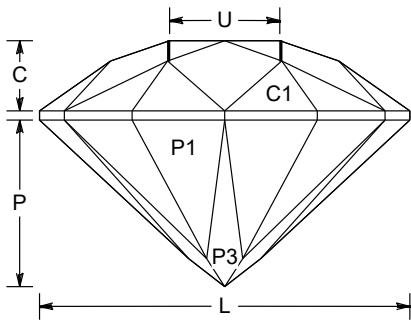
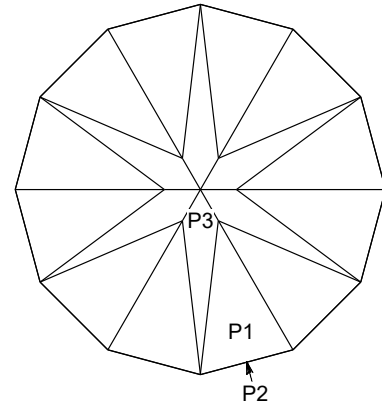
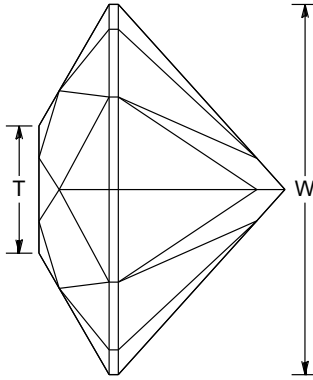
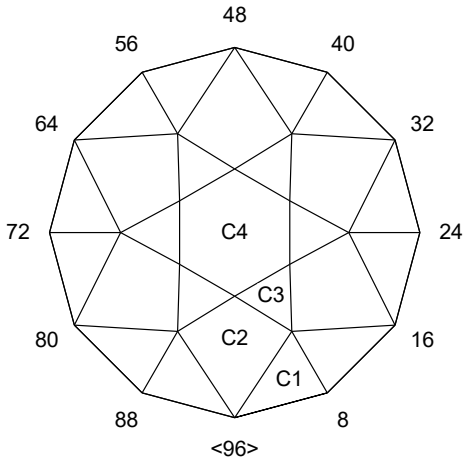
GEMKHANA 2202

Section: N-10.6

Material: Any Quartz

Facets: 18 + 12 Girdle = 30 (Crown = 25 Pavilion = 18)

Meets: 43 (Crown = 24 Pavilion = 19)



SIMPLE ROUND BRILLIANT

Designer: Dennis Anderson

Angles for R.I. = 1.540

43 + 12 girdles = 55 facets

6-fold, mirror-image symmetry

96 index

$L/W = 1.000$ $T/W = 0.344$ $U/W = 0.298$

$P/W = 0.450$ $C/W = 0.189$

$Vol./W^3 = 0.208$

PAVILION

P1 43.90° 04-12-20-28-36-44-
52-60-68-76-84-92

P2 90.00° 04-12-20-28-36-44-
52-60-68-76-84-92

P3 42.00° 96-16-32-48-64-80

CROWN

C1 35.99° 04-12-20-28-36-44-
52-60-68-76-84-92

C2 30.00° 96-16-32-48-64-80

C3 19.00° 08-24-40-56-72-88

C4 0.00° Table

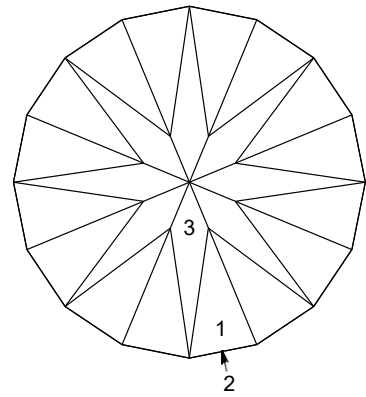
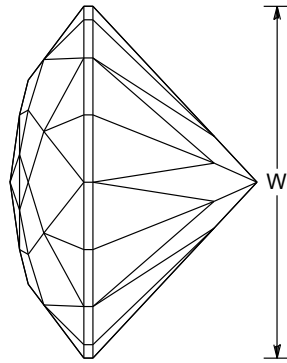
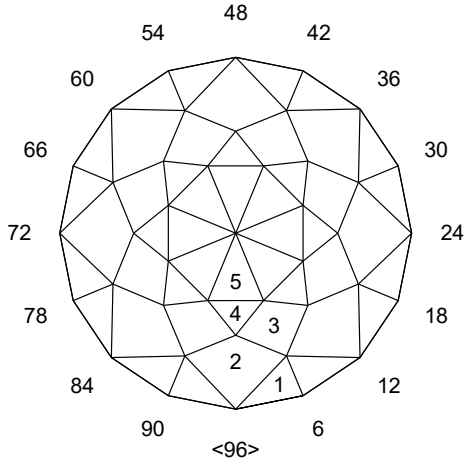
GEMKHANA 2022

Section: O-11.1

Material: Coloured Cubic Zirconia

Facets: 72 + 16 girdle = 88 (Crown = 48 Pavilion = 24)

Meets: 66 (Crown = 41 Pavilion = 25)



APEX WHEEL

Designer: Richard Anderson

Angles for R.I. = 2.160

72 + 16 girdles = 88 facets

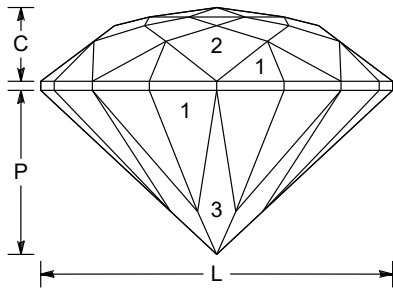
8-fold, mirror-image symmetry

96 index

L/W = 1.000

P/W = 0.466 C/W = 0.210

Vol./W³ = 0.228



PAVILION

1	44.40°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93
2	90.00°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93
3	43.00°	96-12-24-36-48-60-72-84

CROWN

1	43.50°	03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93
2	37.00°	96-12-24-36-48-60-72-84
3	22.00°	06-18-30-42-54-66-78-90
4	14.00°	96-12-24-36-48-60-72-84
5	8.00°	96-12-24-36-48-60-72-84

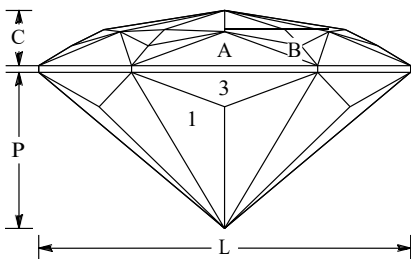
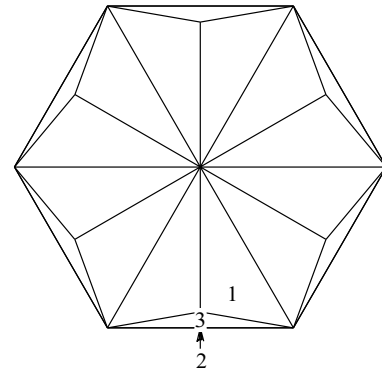
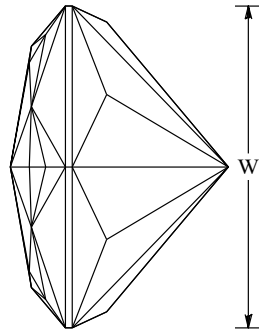
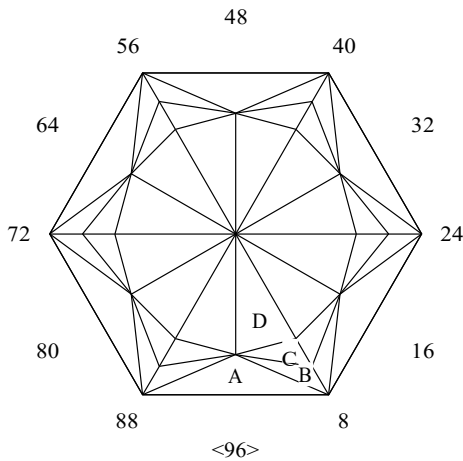
GEMKHANA 2022

Section:- I-11.2

Material:- MM Coloured Spinel

Facets:-60 + 8 Girdle (Crown 42 Pavilion 18)

Meets:- 32 (Crown 25 Pavilion 7)



MINI HEXAGON APEX

Author Norman Steele

Angles for R.I. = 1.720

60 + 6 girdles = 66 facets

6-fold, mirror-image symmetry

96 index

$L/W = 1.155$

$P/W = 0.485$ $C/W = 0.171$

$Vol./W^3 = 0.254$

PAVILION

1	41.00°	04-12-20-28-36-44-52-60-68-76-84-92	Cut of facets to PCP
2	90.00°	96-16-32-48-64-80	Set stone size
3	65.00°	96-16-32-48-64-80	Meet P1-P1 at corners

CROWN

A	40.00°	96-16-32-48-64-80	Set girdle thickness
B	33.00°	02-14-18-30-34-46-50-62-66-78-82-94	Meet C1-C1-girdle
C	28.00°	03-13-19-29-35-45-51-61-67-77-83-93	Meet C2-C1-C2
D	10.00°	01-15-17-31-33-47-49-63-65-79-81-95	Meet C1-C2-C3

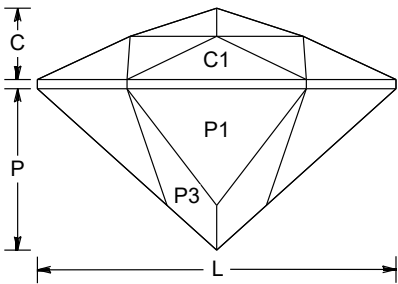
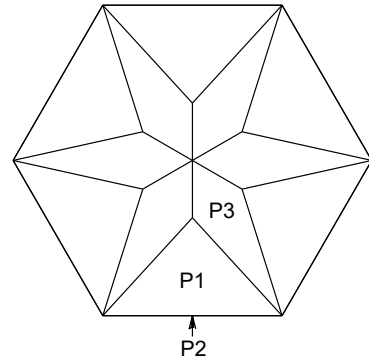
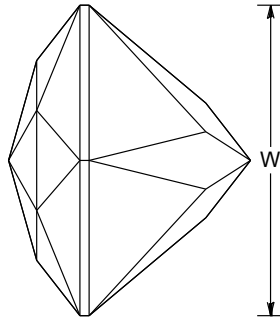
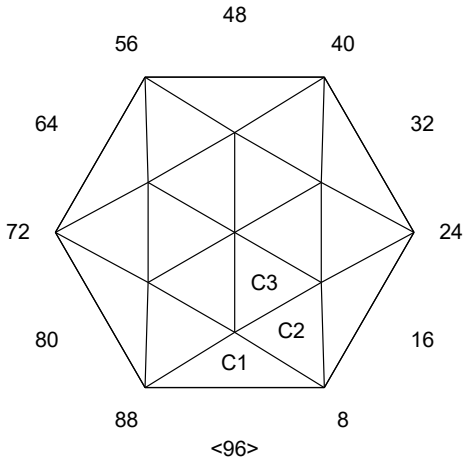
GEMKHANA 2022

Section: N-11.3

Material: Any Quartz

Facets: 30 + 6 girdle = 36 (Crown = 18 Pavilion = 12)

Meets: 20 (Crown = 13 Pavilion = 7)



APHEX

Designer Jeff Ford

Angles for R.I. = 1.540

30 + 6 girdles = 36 facets

6-fold, mirror-image symmetry

96 index

L/W = 1.155

P/W = 0.520 C/W = 0.230

Vol./W³ = 0.276

PAVILION

P1 50.00° 96-16-32-48-64-80 Cut To TCP

P2 90.00° 96-16-32-48-64-80 Set stone size

P3 42.00° 08-24-40-56-72-88 Cut to PCP

CROWN

C1 38.00° 96-16-32-48-64-80 Set girdle thickness

C2 25.00° 08-24-40-56-72-88 Meet C1 @ girdle

C3 18.00° 08-24-40-56-72-88 Meet C1-C2