

GEMKHANA 2012 COMPETITION SCHEDULE LEVEL 3

Judging will be in accordance with J & R Competition and Judging Manual issue No 7.

O=OPEN I=INTERMEDIATE N=NOVICE J=JUNIOR TR=TROPHY

**ENTRY FEE = \$1.00 per entry for 1st ten (10) entries, thereafter FREE

CABOCHONS: Min size 25x18mm

- O – 1A - Standard Cabochon – C/S – AGATE
- I – 1A(1) - Standard Cabochon – C/S – AGATE
- N – 1A(2) - Standard Cabochon – C/S – AGATETR
- J – 1A(3) - Standard Cabochon – C/S – OWN CHOICE MATERIAL
- O – 1B - Fancy Cabochon – C/S - OWN CHOICE MATERIAL
- I – 1B(1) - Fancy Cabochon – C/S - OWN CHOICE MATERIAL
- N – 1B(2) - Fancy Cabochon – C/S - OWN CHOICE MATERIAL
- J – 1B(3) - Fancy Cabochon – C/S - OWN CHOICE MATERIAL
- O – 1B(4) - Fancy Cabochon – A/A – OWN CHOICE MATERIAL
- I – 1B(5) - Fancy Cabochon – A/A – OWN CHOICE MATERIAL
- N – 1B(6) - Fancy Cabochon – A/A – OWN CHOICE MATERIAL
- J – 1B(7) - Fancy Cabochon – A/A - OWN CHOICE MATERIAL
- O – 2A - Double Standard Cabochon – C/S – PETRIFIED WOODTR
- I – 2A(1) - Double Standard Cabochon – C/S - PETRIFIED WOOD
- N – 2A(2) - Double Standard Cabochon – C/S - PETRIFIED WOOD
- J – 2A(3) - Double Standard Cabochon – C/S - PETRIFIED WOOD
- O – 2B - Double Fancy Cabochon – A/A – PETRIFIED WOOD
- I – 2B(1) - Double Fancy Cabochon – A/A – PETRIFIED WOOD
- N – 2B(2) - Double Fancy Cabochon – A/A – PETRIFIED WOOD

FREEFORMS: Must not pass through 15mm hole

- O – 3 - Freeform – C/S – OWN CHOICE MATERIAL
- I – 3(1) - Freeform – C/S – OWN CHOICE MATERIAL
- N – 3(2) - Freeform – C/S - OWN CHOICE MATERIAL
- J – 3(3) - Freeform – C/S - OWN CHOICE MATERIAL

FREEFORM OPAL: Must not pass through an 8mm hole

- O – 3(4) - Freeform – C/S – Specified Material - OPAL
- N – 3(5) - Freeform – C/S – Specified Material – OPAL

OPAL SECTIONS: Min size 10mm

- O – 4B - Opal Doublet – Domed Top
- N – 4B(1) - Opal Doublet – Domed Top
- O – 4C - Opal Triplet
- N – 4C(1) - Opal Triplet

CARVINGS: All carvings - Min size 50mm on longest dimension (excluding base or mount). Max is 300mm (including base or mount).

NOTE: All carvings to be accompanied by a neat label, naming material used. (Label will not be judged)

Hardness under 4

- O – 5A - Carving – 3 dimensional
- I – 5A(1) - Carving – 3 dimensional
- N – 5A(2) - Carving – 3 dimensional
- J – 5A(3) - Carving – 3 dimensional

CARVINGS (con't)**Hardness 4 and over**

- O – 5A(4) - Carving – 3 dimensional.....TR
 J – 5A(5) - Carving – 3 dimensional

Any Hardness

- O – 5B - Carving – in Relief
 N – 5B(1) - Carving – in Relief

CAMEO & INTAGLIO: Min size 25mm on longest dimension of outline shape. Max is 100mm.

- O – 5C - Cameo
 N – 5C(1) - Cameo
 O – 5D - Intaglio
 N – 5D(1) - Intaglio

SCRIMSHAW: Min size 60mm on longest dimension, excluding base. Max 300mm incl. base.

- O – 6 - Scrimshaw
 N – 6(1) - Scrimshaw

FACET CUTS: Min size 6mm on shortest axis of outline shape unless otherwise specified**(NB: All Facet Cuts to be cut as per diagrams and specifications supplied)****(REFER TO SPECIAL CONDITIONS FOR TROPHY DETAILS)**

- O - 8A - Standard Brilliant – continuous girdle – COLOURED MM SPINEL.....TR
 I - 8A(1) - Standard Brilliant – continuous girdle – COLOURED MM SPINEL
 N – 8A(2) - Standard Brilliant – continuous girdle – COLOURED MM SPINEL.....TR
 O - 8B - Standard Brilliant – faceted girdle – COLOURLESS TOPAZ.....TR
 I - 8B(1) - Standard Brilliant – faceted girdle – COLOURLESS TOPAZ
 N – 8B(2) - Standard Brilliant – faceted girdle – COLOURLESS TOPAZ.....TR
 J - 8B(3) - Standard Brilliant – faceted girdle – COLOURLESS TOPAZ
 O - 9A - Standard Oblong Step Cut with cut corners – NATURAL COLOURED QUARTZTR
 I - 9A(1) - Standard Oblong Step Cut with cut corners – NATURAL COLOURED QUARTZ
 N - 9A(2) - Standard Oblong Step Cut with cut corners – NATURAL COLOURED QUARTZTR
 O - O10 - Modified Standard Cut “RECTANGLE-ULTRABRILLIANT-STEP CROWN – COLOURED MM CORUNDUM
 I – 10(1) - Modified Standard Cut “RECTANGLE-ULTRABRILLIANT-STEP CROWN – COLOURED MM CORUNDUM
 N - 10(2) - Modified Standard Cut “SUSAN GEM” – MM COLOURED CUBIC ZIRCONIA
 J – 10(3) - Modified Standard Cut “OLD MINE” – COLOURED MM CORUNDUM
 O – 11 - Fancy Cut “12 MAIN SHIELD NO. 8” – COLOURED MM CORUNDUM
 I - 11(1) - Fancy Cut “12 MAIN SHIELD NO.8” – COLOURED MM CORUNDUM
 N - 11(2) - Fancy Cut “12 MAIN SHIELD NO.8” – COLOURED MM CORUNDUM

TUMBLLED STONES: Must not pass through a 15mm hole.

- O – 12A - Tumbled Stones – Preformed Group of 3 – Each to be a different species or variety
 A/A – (Special condition 2)
 O – 12B - Tumbled Stones – Natural Group of 3 – Each to be a different species or variety
 A/A – (Special condition 2)

POLISHED FACE: Min. size 50mm short axis. Max 300mm on any dimension.

- O – 13 - Polished Face – FLAT surface – A/A
 O – 14 - Polished Face – CURVED surface – A/A

GEM TREES: Must not fit in 150mm cube – Must fit in 300mm cube.

- O – 16 - Gem Tree(s) – Material may be natural, man-made or natural organic
 N – 16(1) - Gem Tree(s) – Material may be natural, man-made or natural organic

NOVELTY GEMCRAFT: Min size 80mm on longest dimension (excluding base or mount). Max is 300mm (including base or mount).

- O – 17 - Novelty Gemcraft
 N – 17(1) - Novelty Gemcraft

HAND FABRICATED JEWELLERY & WIRE WRAPPED JEWELLERY:

- O – 18A - H/Fabricated Jewellery not intended to include Lapidary, Fossil or Mineral
- N – 18A(1) - H/Fabricated Jewellery not intended to include Lapidary, Fossil or Mineral
- O – 18B - H/Fabricated Jewellery with Lapidary item cut/set by entrant
- I – 18B(1) - H/Fabricated Jewellery with Lapidary item cut/set by entrant
- N – 18B(2) - H/Fabricated Jewellery with Lapidary item cut/set by entrant
- O – 18C - H/Fabricated Jewellery with natural Fossil or Mineral set by entrant
- O – 18E - Wire Wrapped Jewellery with Lap., Fossil or Mineral item/s prepared and set by entrant
- I – 18E(1) - Wire Wrapped Jewellery with Lap., Fossil or Mineral item/s prepared and set by entrant
- O – 18F - Wire Wrapped Jewellery with Commercial Lapidary item/s set by entrant
- N – 18F(1) - Wire Wrapped Jewellery with Commercial Lapidary item/s set by entrant

CAST JEWELLERY: Using patterns/moulds made by entrant.

- O – 19A - Cast Jewellery not intended to include Lapidary, Fossil or Mineral
- N – 19A(1) - Cast Jewellery not intended to include Lapidary, Fossil or Mineral

Using Natural Objects as Patterns

- O - 20A - Cast Jewellery using Natural Objects as Patterns.....TR
- N - 20A(1) - Cast Jewellery using Natural Objects as Patterns
- O – 20E - Cast Jewellery without Lap. etc. item/s – METAL CLAY (Not to AFLACA Rules)
- N – 20E(1) - Cast Jewellery without Lap. etc. item/s – METAL CLAY (Not to AFLACA Rules)

Using Commercial Wax models or Patterns

- O – 21A - Cast Jewellery not intended to include Lapidary, Fossil or Mineral
- N – 21A(1) - Cast Jewellery not intended to include Lapidary, Fossil or Mineral
- O – 21B - Cast Jewellery with Lapidary item(s) cut/set by entrant
- N – 21B(1) - Cast Jewellery with Lapidary item(s) cut/set by entrant
- O – 21C - Cast Jewellery with Natural Fossil or Mineral set by entrant
- O – 21D - Cast Jewellery with Commercial Lapidary item(s) set by entrant
- N – 21D(1) - Cast Jewellery with Commercial Lapidary item(s) set by entrantTR
- O – 21E - Cast Jewellery (METAL CLAY) with Commercial Lapidary item(s)
set by entrant (Not to AFLACA Rules)

ENAMELLED JEWELLERY:

- O – 24A - Enamelled Jewellery in H/Fabricated setting – must be entrant’s own work
- O – 24B - Enamelled Jewellery in Cast setting – casting must be all made by entrant
- O – 24D - Enamelled Jewellery in Cast setting – commercial wax models to be used

COMMERCIAL MOUNT JEWELLERY:

- O – 25 - Commercial Mount Jewellery with Lapidary item(s) cut & set by entrant
- J – 25(2) - Commercial Mount Jewellery with Lapidary item(s) cut & set by entrant

ENAMELLING:

- O – 26A - Enamelled Jewellery in commercial mountTR
- N – 26A(1) - Enamelled Jewellery in commercial mount
- O – 26B - Enamelled Jewellery without mount
- N – 26B(1) - Enamelled Jewellery without mount
- O – 26C - Enamelled Non Jewellery – Functional or Non Functional
- N – 26C(1) - Enamelled Non Jewellery – Functional or Non Functional

SHOWCASE SECTIONS:

- O – 29B - Showcase General – Display - Lit
- N – 29B(1) - Showcase General – Display - Lit
- O – 29B(2) - Showcase General – CLUB - Display - Lit
- O – 31 - Showcase Novelty – “NURSERY RHYME(S)” (Title MUST be displayed) – LitTR

FOSSILS:

- O – 32A - Fossil – Non-display – Single AUSTRALIAN vertebrate
- O – 32A(1) - Fossil – Non-display – Single OVERSEAS vertebrate
- O – 32B - Fossil – Non-display – Group of 3 PLANTS – ANY LOCALITY

MINERALS AND MINERAL SHOWCASES: Miniature or Cabinet size unless otherwise specified

- O – 34A - Mineral – Non display – Single OVERSEAS Specimen
- N – 34A(1) - Mineral – Non display – Single ANY LOCALITY Specimen
- O – 34A(2) - Mineral – Non display – Single AUSTRALIAN Specimen
- N – 34A(3) - Mineral – Non display – Single AUSTRALIAN Specimen
- O – 34B - Minerals – Non display - Group of 3 – ANY LOCALITY – Miniature Size
- N – 34B(1) - Minerals – Non display - Group of 3 – ANY LOCALITY – Miniature Size
- O – 37B - Mineral Showcase – Display - Lit

FLORAL & ARTISTRY IN ROCK:

- O – 39 - Stone & Floral Arrangement - FORMAL
- O – 40 - Stone & Floral Arrangement – FORMAL REFLECTIONS
- O – 41 - Stone & Floral Arrangement - INFORMAL
- O – 42 - Artistry in Rock

NOTE: Sections 39, 40 & 41 must be a minimum 2/3rds stone and 1/3rd floral. Stone must be the dominant feature. Fresh or dried flowers must be used. Artificial flowers are NOT permitted.

“FORMAL” – Stone to have crystal or polished face.

“FORMAL REFLECTIONS” – As for formal, but on a mirror base showing exact reflection.

“INFORMAL” – Stone does not need to be a polished face or crystal surface.

‘ARTISTRY IN ROCK’ – A display using rocks, i.e. scenic in which the rocks must be the dominant feature, however, ancillary items may be used to aid or compliment the display.

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SPECIAL CONDITIONS

1. **SECTIONS 8A – 11(3)** – Faceted stones entered in these sections MUST be submitted in a box suitable for size of stone. Materials used for these sections MUST be shown on the box, including whether natural or man-made (see Page 43, D11.3d & D11.3e of Competitor & Judging Manual, Issue No 7, April, 2006). Entries failing to be submitted in this manner will be disqualified. Minimum size is 6mm on shortest axis, unless otherwise specified – a tolerance of 0.1mm will be permitted on sizes. Sections O-9A up to and including N-11(2) must be cut to diagrams supplied.
2. **SECTIONS 12A & 12B** – Tumbled Stones – each stone must not pass through a 15mm diameter circular hole.
3. **SECTIONS O18F, O18F(1), O21D & N21D(1)**– Wire wrapped Jewellery with Commercial Lapidary item/s set by entrant – Beads may be used as an accompaniment to a cabochon or any other natural lapidary item or by themselves in jewellery in these sections. Beads must be in Natural Lapidary Material or Natural Organic Material as defined in D2.2 and D2.4 on page 19 of the Manual.
4. **SECTIONS O20E, N20E(1) & O21E (METAL CLAY)** – Metal Clay is not a recognized AFLACA group, but will be judged using the applicable judging sheets on pages 72 & 75 of the Manual.
5. **SECTION 31** – Novelty Showcase – “NURSERY RHYME(S)” – must contain a minimum of 20 lapidary and associated items owned by the entrant or immediate family (they do not have to be the work of the entrant). Title must be displayed in showcase.

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SPECIAL ONE-OFF TROPHIES

- SECTION N-1A(1) – Standard Cabochon – AGATE.
 SECTION O-5A(3) – Carving 3-Dimensional – Hardness 4 or over.
 SECTION N-21D(1) – Cast Jewellery with Commercial Lapidary item/s.

THE JOAN BALL TROPHIES

- SECTION O-26A – Enamelled Jewellery in Commercial Mount.
 SECTION O-31 – Showcase Novelty – “NURSERY RHYME(S)”

THE ALAN COULTON TROPHY

- SECTION O-20A – Cast Jewellery using Natural Objects as Patterns

PERPETUAL TROPHIES

- THE BORIS NOVIC TROPHY** - for the competitor with the highest score in Open section 2A, Double Standard Cabochon
- THE FRANK LANDER TROPHY** - for the most successful competitor.
 (1st = 6 points; 2nd = 4 points; 3rd = 2 points; H/C = 1 point)
- THE ARTHUR ROFFY TROPHY** - for the “Best Mineral in Show” (as selected by the donor).
- THE FRANK HALL TROPHY** - for the most successful club. Points are awarded as follows:
 1st = 6 points; 2nd = 4 points; 3rd = 2 points; H/C = 1 point, plus 1 point for every entry gaining 75% of the score of the winning entry in that section.
- THE DICK MOPPET TROPHY - OPEN** - for the Open competitor with the high aggregate points for two (2) faceted stones, both standard cuts; one shall be STANDARD BRILLIANT and the other a STANDARD STEP CUT. Please note: competitors entered in Sections O8A, O8B & O9A automatically compete for this trophy.
- THE DICK MOPPET TROPHY - NOVICE** - for the Novice competitor with the highest aggregate points for two (2) faceted stones, both standard cuts, one shall be STANDARD BRILLIANT and the other a STANDARD STEP CUT. Please note: competitors entered in Sections N8A(2), N8B(2), & N9A(2) automatically compete for this trophy.

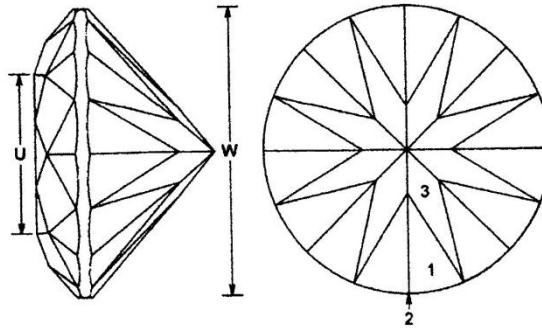
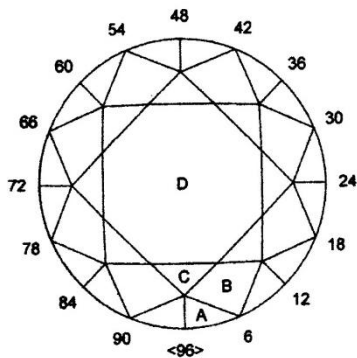
CONDITIONS OF ENTRY

1. This is a Level 3 Competition, and will be conducted in accordance with the Competitor & Judging Manual Issue No 7, April 2006, unless otherwise stated in the list of Special Conditions.
2. Juniors must be under the age of sixteen (16) years on Friday, 17th August, 2012.
3. Maximum of two (2) entries per person, per section, will be accepted, with the exception of showcases, where only one (1) entry is eligible. However, a "Family" entry does not prevent an individual family member from entering a showcase.
4. Awards will be granted for 1st, 2nd, 3rd and H/C (Highly Commended) at the discretion of the Competition Committee.
5. Entry fees will be \$1.00 per entry for the first ten (10) entries, thereafter FREE.
6. If competitors require their entries to be returned by post, after the GEMKHANA, they must include \$10 with their Entry Form, to cover postal costs.
7. **ALL ENTRY FORMS AND FEES MUST BE IN THE HANDS OF THE COMPETITION COMMITTEE BY FRIDAY 17TH AUGUST, 2012.** Address: Competition Committee 2012, 257 Box Rd, Sylvania, NSW, 2224. Telephone enquiries to John Mackenzie, (02) 9522-7422.
8. **ALL POSTAL ENTRIES** can be mailed to the above address and must be received by **FRIDAY, 24TH AUGUST, 2012.**
9. **ENTRIES IN PERSON**
 - a. **Sections 1A – 14 & 18A – 26C(1)** inclusive are to be delivered to the Competition Committee at Port Hacking Lapidary Club, Warburton Lane (off Warburton St), Gymea NSW 2227 **between 10am & 1pm on SATURDAY, 25TH AUGUST, 2012.** (Clubroom phone no: (02) 9526-1106).
 - b. All entries must be accompanied by a \$10 cheque/money order/postal note to cover the cost of return of entries by mail, if not being collected in person.
 - c. **Sections 16-17(1) and 29B-37B plus 39-42** inclusive will be judged at the GEMKHANA 2012. Entries will be received by the Competition Committee, in the Hall, **from 1:00pm – 5:00pm on Friday, 28th September, 2012.**
 - d. **SHOWCASES** must be in position and dressed **no later than 5:00pm on FRIDAY, 28th September, 2012** or **BY PRIOR ARRANGEMENT ONLY** by 8am **SATURDAY, 29th September, 2012.** Please telephone the Competition Chairperson (John Mackenzie on 0425 287 432) to make such arrangements.
 - e. Entry forms for **STONE & FLORAL ARRANGEMENTS & ARTISTRY IN ROCK** will only be accepted, by the Competition Committee, up until **5:00pm, Friday, 28th September, 2012** and entries must be in place **no later than 5:00pm that same night** or **BY PRIOR ARRANGEMENT ONLY** by 8am **SATURDAY, 29th September, 2012.** Please telephone the Competition Chairperson (John Mackenzie on 0425 287 432) to make such arrangements.
10. **RETURN OF ENTRIES:**
All entries, other than postal, must be **collected on MONDAY, 1st October, 2012**, in the competition hall **between 2:00 & 3:00pm**. It is the responsibility of the entrant to check their entries prior to leaving the hall. Postal entries will be returned by mail within fourteen (14) days. All care, but no responsibility.
N.B. UNDER NO CIRCUMSTANCES can entries be returned to competitors at any other times during the GEMKHANA.
11. **JUDGING SHEETS:**
These will be available in the hall on **SUNDAY, 30th September, 2012 from 10:00am to NOON.**

NEW SOUTH WALES GEMKHANA 2012 COMPETITION

**SECTIONS O8A / I8A(1) / N8A(2)
MATERIAL - COLOURED MM SPINEL**

FACETS: 58 MEETS: 41 (CROWN: 24 PAVILION:17)



Standard Brilliant - Continuous Girdle

Angles for R.I. = 1.810

57 + 96 girdles = 153 facets

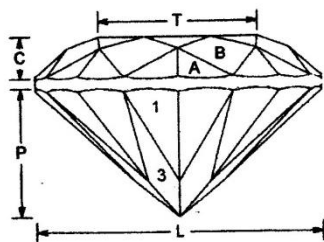
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.556 U/W = 0.556

P/W = 0.443 C/W = 0.148

Vol./W³ = 0.227



PAVILION

1 42.50° 03-09-15-21-27-33-39-45-
51-57-63-69-75-81-87-93

2 90.00°

3 41.00° 06-18-30-42-54-66-78-90

Continuous Girdle

CROWN

A 42.00° 03-09-15-21-27-33-39-45-
51-57-63-69-75-81-87-93

B 35.00° 06-18-30-42-54-66-78-90

C 20.00° 96-12-24-36-48-60-72-84

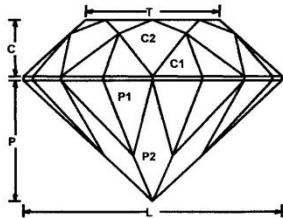
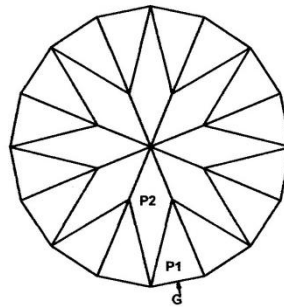
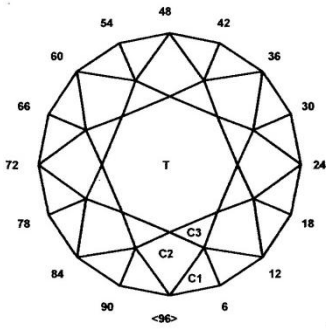
D 0.00° Table

NEW SOUTH WALES GEMKHANA 2012 COMPETITION

SECTIONS O8B / I8B(1) / N8B(2) / J8B(3)

MATERIAL – COLOURLESS TOPAZ

FACETS: 73 MEETS: 57 (Crown – 32, Pavilion – 25)



Standard Brilliant with Faceted Girdle

Angles for R.I. = 1.760
 57 + 16 girdles = 73 facets
 8-fold, mirror-image symmetry
 96 index
 $L/W = 1.000$ $T/W = 0.516$ $U/W = 0.516$
 $P/W = 0.466$ $C/W = 0.218$
 $Vol./W^3 = 0.240$

PAVILION

- P1 43.00° 03-09-15-21-27-33-39-45- Cut to TCP
51-57-63-69-75-81-87-93
- G 90.00° 03-09-15-21-27-33-39-45- Outline girdle
51-57-63-69-75-81-87-93
- P2 42.00° 96-12-24-36-48-60-72-84 Cut to meet P1 - G

CROWN

- C1 42.00° 03-09-15-21-27-33-39-45- Set girdle width
51-57-63-69-75-81-87-93
- C2 37.00° 96-12-24-36-48-60-72-84 Cut to meet C1 – G
- C3 21.00° 06-18-30-42-54-66-78-90 Cut to meet C1 - C2
- T 0.00° Table Cut to meet C3 - C2 - C3

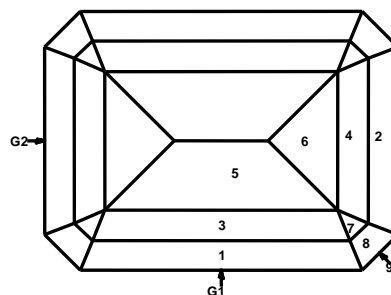
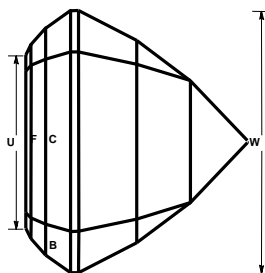
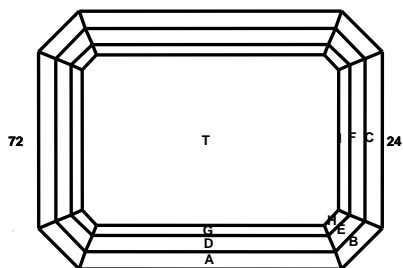
NEW SOUTH WALES GEMKHANA 2012 COMPETITION SECTION O9A / I9A(1) / N9A(2)

STANDARD OBLONG STEP CUT WITH CUT CORNERS

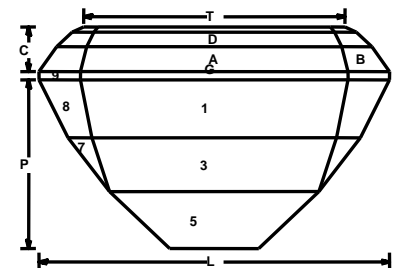
MATERIAL – COLOURED QUARTZ

FACETS - 53: MEETS - 44 (Crown - 24, Pavilion - 20)

60 48 36



84 <96> 12



STANDARD OBLONG STEP CUT WITH CUT CORNERS

Angles for R.I. = 1.540

45 + 8 girdles = 53 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.25 T/W = 0.996 U/W = 0.662

P/W = 0.641 C/W = 0.171

Vol./W³ = 0.602

PAVILION

G1	90.00°	96-48	Size to width
G2	90.00°	24-72	Size to length
1	56.00°	96-48	Locate girdle
2	56.00°	24-72	Level girdle
3	49.00°	96-48	Cut as required
4	49.00°	24-72	MP 1-2-3
5	42.00°	96-48	Cut as required
6	42.00°	24-72	MP 3-4-5
7	49.00°	12-36-60-84	MP 3-4-5-6
8	56.00°	12-36-60-84	MP 1-3 & 2-4
9	90.00°	12-36-60-84	Level girdle

CROWN

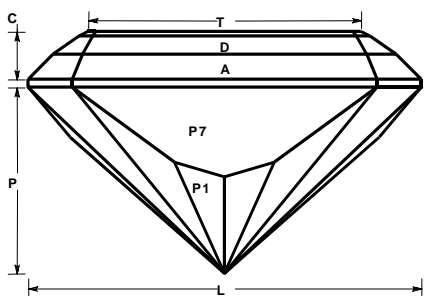
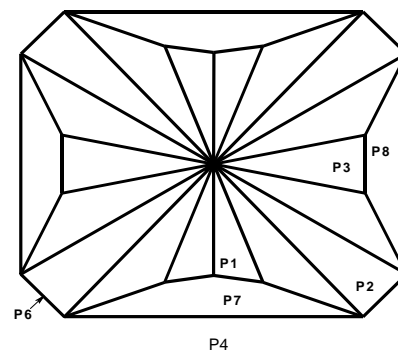
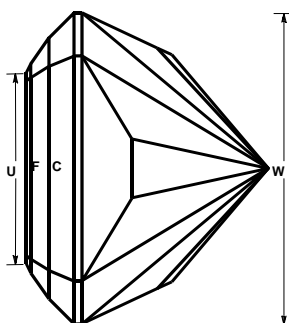
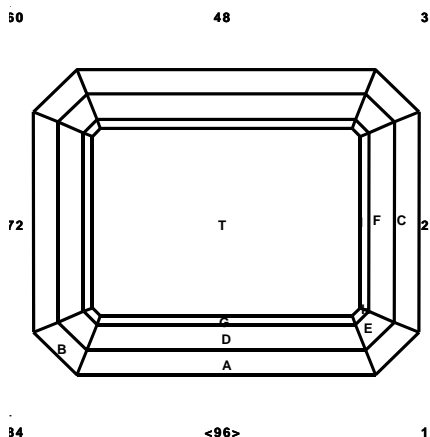
A	55.00°	96-48	Set girdle width
B	55.00°	12-36-60-84	Level girdle
C	55.00°	24-72	Level girdle
D	42.00°	96-48	Cut as required
E	42.00°	12-36-60-84	Level 2nd step
F	42.00°	24-72	Level 2nd step
G	27.00°	96-48	Cut as required
H	27.00°	12-36-60-84	Level 3rd step
I	27.00°	24-72	Level 3rd step
T	0.00°	Table	Cut as required to set 3rd step & table

NEW SOUTH WALES GEMKHANA 2012 COMPETITION

SECTIONS O10 / I10(1)

MATERIAL – COLOURED MAN MADE CORUNDUM

FACETS - 55: MEETS - 33 (Crown - 24, Pavilion - 9)



Rectangle Cut - Ultrabrigiliant Series - Step Crown

By John Broadfoot AFG 2005

Angles for R.I. = 1.760

47 + 8 girdles = 55 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.261 T/W = 0.833 U/W = 0.572

P/W = 0.599 C/W = 0.174

Vol./W³ = 0.462

PREFORM

P1	41.00°	03-09-21-27-39-45-51-57-69-75-87-93	Cut to meetpoint
P2	40.50°	12-36-60-84	Cut to P1 meetpoint
P6	90.00°	12-36-60-84	Cut corners to required width to same depth
P4	90.00°	96-48-24-72	Establish width and length

PAVILION

P7	65.00°	96-48	Cut halfmoon to form girdle line
P3	41.50°	24-72	Cut to P1 meetpoint
P8	50.00°	24-72	Cut halfmoon facets at ends and form girdle line

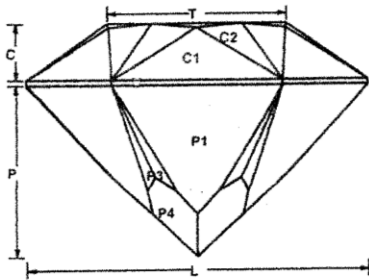
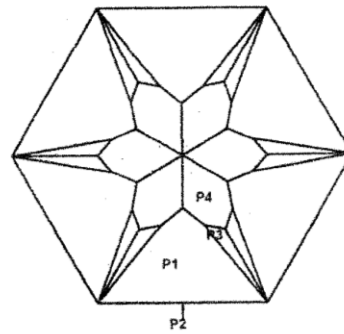
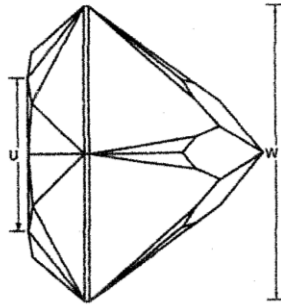
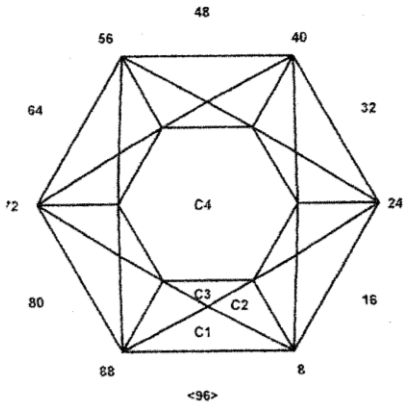
CROWN

A	45.00°	96-48
B	45.00°	12-36-60-84
C	45.00°	24-72
D	35.00°	96-48
E	35.00°	12-36-60-84
F	35.00°	24-72
G	25.00°	96-48
H	25.00°	12-36-60-84
I	25.00°	24-72
T	0.00°	Table

**NEW SOUTH WALES GEMKHANA 2012 COMPETITION
SECTION N10(2)**

MATERIAL - COLOURED MM CUBIC ZIRCONIA

FACETS : 55 MEETS: 25 (CROWN 18 PAVILION 7)



Susan Gem

By John Wren AFG
 Angles for R.I. = 2.160
 49 + 6 girdles = 55 facets
 6-fold mirror image symmetry
 96 index
 L/W = 1.155 T/W = 0.606 U/W = 0.525
 P/W = 0.590 C/W = 0.190
 Vol./W³ = 0.329

PAVILION

P1	54.00°	96-16-32-48-64-80	Cut to TCP
P2	90.00°	96-16-32-48-64-80	Level girdle
P3	48.00°	06-10-22-26-38-42-54-58-70-74-86-90	Meet P1, P2, P2
P4	43.00°	08-24-40-56-72-88	Cut to PCP, & P3, P3, P4 halfway to girdle

CROWN

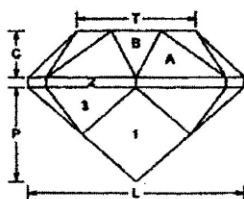
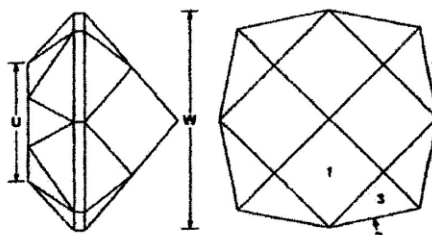
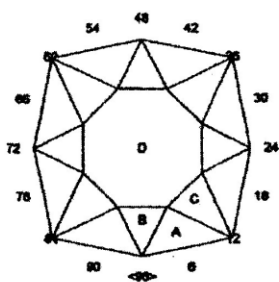
C1	49.00°	96-16-32-48-64-80	Set girdle thickness and level
C2	35.00°	06-10-22-26-38-42-54-58-70-74-86-90	Meet C1, C2, P2, P2
C3	9.20°	96-16-32-48-64-80	Meet C1, C2, C2
C4	0.00°	Table	Meet C2, C2, C3, C3

NEW SOUTH WALES GEMKHANA 2012 COMPETITION

SECTION: JUNIOR J10(3)

MATERIAL: COLOURED MM CORUNDUM

FACETS: 37 MEETS: 29 (CROWN-16 PAVILION-13)



OLD MINE

Angles for sapphire

Angles for R.I = 1.760

29+8 girdles = 37 facets

4-fold, mirror-image symmetry

96 index

L/W= 1.00 T/W=0.549 U/W=0.549

P/W=0.435 C/W=0.212

Vol./W=0.285

PAVILION

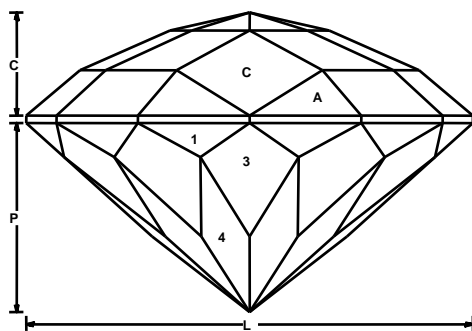
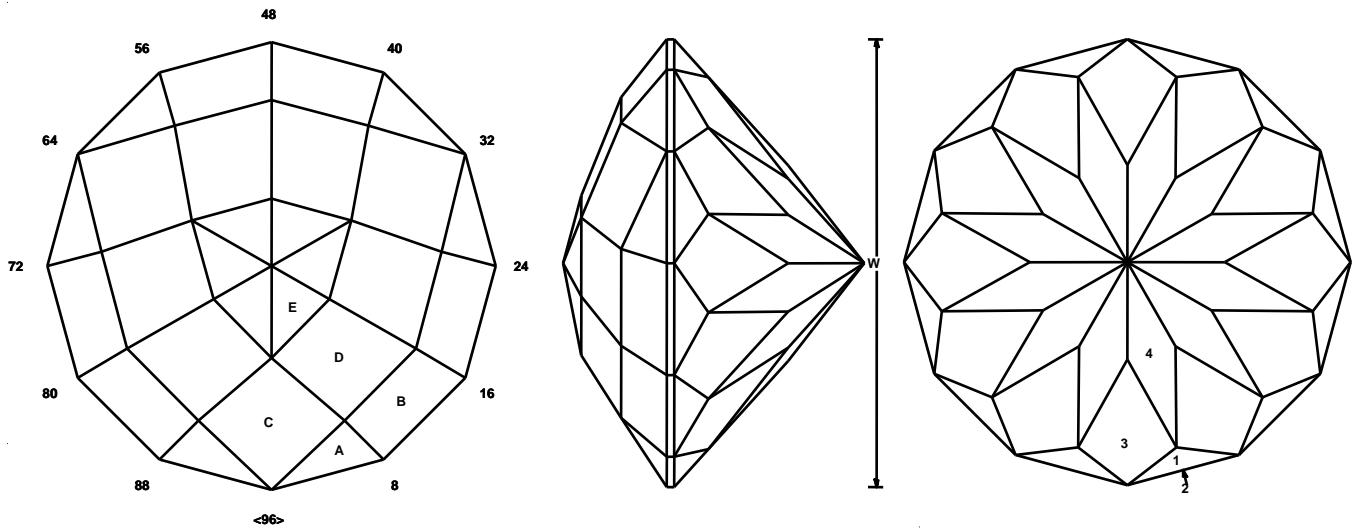
1	41.00°	96-24-48-72
2	90.00°	03-21-27-45-51-69-75-93
3	47.90°	03-21-27-45-51-69-75-93

CROWN

A	46.90°	03-21-27-45-51-69-75-93
B	43.30°	96-24-48-72
C	34.00°	12-36-60-84
D	0.00°	Table

**NEW SOUTH WALES GEMKHANA 2012 COMPETITION
SECTIONS O11 / I11(1) / N11(2)
MATERIAL – COLOURED MM CORUNDUM**

FACETS - 75: MEETS - 53 (Crown - 28, Pavilion - 25)



12 Main Shield Brilliant No 8.

By Evan A Williams
Australian Facet Designs Vol.5 Pg.21
Angles for R.I. = 1.760
63 + 12 girdles = 75 facets
3-fold, mirror-image symmetry
96 index
L/W = 1.000
P/W = 0.424 C/W = 0.230
Vol. /W³ = 0.209

PAVILION

1	55.00°	04-12-20-28-36-44- 52-60-68-76-84-92	Cut TCP
2	90.00°	04-12-20-28-36-44- 52-60-68-76-84-92	Set outline size
3	42.00°	96-08-16-24-32-40- 48-56-64-72-80-88	Cut to meet at 1, 2
4	39.00°	04-12-20-28-36-44- 52-60-68-76-84-92	Cut to meet at 1, 3 & form Pavilion PCP

CROWN

A	43.00°	04-28-36-60-68-92	Set girdle width
B	39.00°	12-20-44-52-76-84	Level girdle width
C	33.00°	96-32-64	Cut to meet at 2, A
D	23.00°	12-20-44-52-76-84	Cut to meet at A, B, C
E	15.00°	12-20-44-52-76-84	Cut to meet at C, D & form Crown PCP