Index of articles
for
Volumes 1 to 24

July 1958 to
December 2012
The index of articles for Volumes 1 to 24 contains the list of all articles published in the journal between July 1958 and December 2012.

This is not a conventional index, however, it can be searched for Author or Subject using the ‘Find’ option of Adobe, in the same way as one uses the same tool in a word document.

The Old Format refers to Volumes 1 to 17 (1958-1991) (14 x 21.5 cm) and the New Format refers to Volumes 18 to 23 (1992-2009) (17 x 24.5 cm).

Past issues of The Australian Gemmologist contain a wealth of historical reference material. Most back issues are still available for purchase.

To find out about purchasing back issues, visit www.gem.org.au and follow the link ‘AG Journal / Past Issues’.
Volume 1, Number 1, July 1958
Address of welcome: Professor D.P. Mellor, 5.
Gem inclusions through a x10 loupe (ruby, emerald, sapphire): A.A. Wirth, 10-12.
Do we know enough about diamonds: W.A. Catanach, 25.
Gemmology and the salesman: S. Morrow, 28-29.

Volume 1, Number 2, August 1958
Fabulite – The new diamond substitute: Prof. Dr. Schlossmacher (trans. by J.D. Altmann), 8-9.
Andamooka field excursion: R. Harvey, 16-17.

Volume 1, Number 3, September 1958
Australia’s first pearl culture venture, 15-19.

Volume 1, Number 4, October 1958
Cultured emeralds and how they grow: C.F. Chatham, 7-11.
Inside the Chatham cultured emerald: T. Koller, 14-20.

Volume 1, Number 5, November 1958
Prasiolite: A.A. Wirth, 6-8.
A new method for producing synthetic ruby: Professor D.P. Mellor, 10-11.
Marco Polo – Gem lover – Part 1, 22-23.

Volume 1, Number 6, December 1958
The origin of gems – Part 1: R. Grasso, 8-10.
Synthetic diamonds through the microscope: G.A. Tombs, 12.
New discovery in Western Australia (tiger’s eye and cat’s eye opals), 15.
Marco Polo – Gem lover – Part 2, 16-17.

Volume 1, Number 7, January 1959
The origin of gems – Part 2: R. Grasso, 6-12.
Asterism in gemstones: N.G. D’Ascenzo, 13-16.
Introducing precious gemstones: A.A. Wirth, 17-19.
Marco Polo – Gem lover – Conclusion, 32.

Volume 1, Number 8, February 1959
Testing emeralds, 9-10.
Man-made stones are ‘synthetics’: The Gemmologist, 12.

Volume 1, Number 9, March 1959
The Pearl King – The story of the fabulous Mikimoto: R. Eunson, 7-14.
A link with the Spanish Armada (four ancient pearls), 16-20.

Volume 1, Number 10, April 1959
Gemstones and their superstitions: D.R. Walter, 6-11.
The Pearl King (continued): R. Eunson, 18-21.

Volume 1, Number 11, May 1959
Man-made emeralds: E.J. Gubelin, 7.
Know your jadeite: A.A. Wirth, 10-13.
Some notes on a recent West Australian mineral discovery (opalised tiger’s eye), 16-17.
The Pearl King (continued): R. Eunson, 18-21.
The birth of the opal (poem), 22.

Volume 1, Number 12, June 1959
Emeralds from Sandawana: E.J. Gubelin, 6-20.
The Pearl King (continued): R. Eunson, 31-32.

Volume 2, Number 1, July 1959
How to start collecting minerals: D.R. Walter, 6-11.
Synthetic rutile sold under many names, 13-14.
European diamond market report: C.J. Ginder, 19.
The Pearl King (continued): R. Eunson, 22-26.

Volume 2, Number 2, August 1959
Overseas gemmological and jewellery trends: J.D. Altmann, 5-7.
A new opal prospect: R.B. Stokes, 8.
Determination of mounted stones: N.F. Lamb, 11.
The Pearl King (continued): R. Eunson, 13-20.

Volume 2, Number 3, September 1959
How to use a dichroscope: C.J Parsons, 11-12.
Table of pleochroism, 13.
The Pearl King (continued): R. Eunson, 24-30.

Volume 2, Number 4, October 1959
Turquoise imitations: R. Webster, 5-7.
European diamond market report, 12.
Gem cutting, 18-19.
The Pearl King (continued): R. Eunson, 21-30.

Volume 2, Number 5, November 1959
Highlights from the gem trade laboratories in New York and Los Angeles - Gems & Gemology, 5.
Lapidary trend in America: K.E. Bensusan, 9-12.
The Rayner gemmological microscope, 13-14.
Jewel exhibition Melbourne 1959, 16-17.

Volume 2, Number 6, December 1959
Rarest stone in the World (Blue John): D. Thompson, 5.
A visit to the Burra Copper Mine in South Australia: D.R. Walter, 7-10.
Kuri Bay (Qld): D.R. Walter, 15.
The Pearl King (continued): R. Eunson, 21-25.

Volume 2, Number 7, January 1960
Facetted gem stones: cutting for maximum brilliance: O.L. Knight, 5-12.
Retail jewellers welcome diamond course, 15-16.
The Pearl King (continued): R. Eunson, 24-28.

Volume 2, Number 8, February 1960
The Pearl King (continued): R. Eunson, 17-22.

Volume 2, Number 9, March 1960
Properties and classification of individual garnets: B.W. Anderson, 5-12.
Memories of Western Australian gold rushes – The Larkinville and Specimen Gully finds: R.J. Beavis, 14-18.

Volume 2, Number 10, April 1960
The nature of polished metal and stone surfaces, 5.
Chatham denies FTC charges, 7-8.
The gold rush, Beechworth (1852), 12-13.
The Pearl King (continued): R. Eunson, 19-22.

Volume 2, Number 11, May 1960
Black opal: L. Hudson, 5.
Opal deposits at the Hayricks opal mine, Quilpie: Queensland Government Mining Journal, 7-16.
Fishing for truth about R.I.: D.G. Sanderson, 18.
Life on the goldfields: R.C. Harvey, 20-22.
The Pearl King (continued): R. Eunson, 26-30.

Volume 2, Number 12, June 1960
The mechanical properties of solids and their influence on the durability of gemstones, 7-17.
The Pearl King (continued): R. Eunson, 29-30.

Volume 3 July 1960 – June 1961

Volume 3, Number 1, July 1960 (OLD SERIES)
The noble opal of Australia: A.A. Wirth, 6-7.
North America’s only diamond field: E.L. Howe, 16-17.
The Pearl King (continued): R. Eunson, 24-26.

Volume 3, Number 2, August 1960 (OLD SERIES)
Huge gem auction in London, 10.
Hopper crystals of quartz from Meelup, Western Australia: J.G. Kay, 16-18.

The Pearl King (continued): R. Eunson, 24-26.

Volume 3, Number 3, August 1960 (OLD SERIES)
Diamonds for you: De Beers Consolidated Mines Ltd, 5-11.
Jade carving: P. Ping-Heng, 13-17.
Fabulite (Strontium titanate), 18.
The Pearl King (continued): R. Eunson, 22-26.

Volume 3, Number 1, November-December 1960 (NEW SERIES)
Gold is where you find it: M. Bracken, 4
Pearl testing endoscope: Special correspondent, 7-11.

Volume 3, Number 2, January-February 1961
Tasmanian jewellery exhibition, 5-7.
The GAA field day: D.G. Sanderson, 8-9.
Australia and gemmology: alexandrite: A.A. Wirth, 11-12.

Volume 3, Number 3, March 1961
The Maori Heitiki: Whitcombe & Tombs Ltd, 5-6.
Relationship between refractive index and specific gravity: J.R. Tuffley, 7-9.
Synthetic and cultured gem materials: S. St. J. Warne, 16-19.

Volume 3, Number 4, April 1961
The rise of the diamond: M.J. Ward, 5-6.
Protecting a trade, 14-19.

Volume 3, Number 5, May 1961
Zircon – the mineral and gemstone of rising fame: Professor A.F. Wilson, 6-7, 14.
Protecting a trade (continued), 15-19.

Volume 3, Number 6, June 1961
Chiastolites from the Olary Province of South Australia: D.R. Walter, 5-9.

Volume 4 July 1961 - December 1962

Volume 4, Number 7, July 1961
Figure-O-Scope: J.J. Snow, 9.
Protecting a trade (continued), 12-14.

Volume 4, Number 8, August 1961
Protecting a trade (continued), 14-15.

Volume 4, Number 9, September 1961
Protecting a trade (continued and end), 10-11.
Gemstones and gemmology (continued): A.A. Wirth, 8.
The origin of colour in opal: P.J. Darragh, J.V. Sander, 9-12.

Volume 7, Number 47, May 1965
Presidential address: Professor H.C. Bolton, 5-7.
Australia and gemmology: emerald by man: A.A. Wirth, 8-9.
Amber: A.A. Wirth, 9,11.
Synthetic opals search: Sun Herald, 13-14.

Volume 7, Number 48, June 1965
The geology of Australian gemstone deposits: J.C. Liddy, 5-8.
Gemstones and gemmology, synthetic corundum: A.A. Wirth, 9-11.
Home comforts at Andamooka: L.R. Kavanagh, 12.

Volume 7, Number 49, July 1965
Inclusions in NSW gemstones: E.L. Stevens, 5-7.
The geology of Australian gemstone deposits: J.C. Liddy, 8-11.

Volume 7, Number 50, August 1965
Inclusions in NSW gemstones (continued from July issue): E.L. Stevens, 5-7.
Classification of growth techniques, 9-10.

Volume 7, Number 51, September 1965
Australia and gemmology: A.A. Wirth, 5-6.

Volume 7, Number 52, October 1965
A new hydrothermal emerald: Linde Division, 6.

Volume 7, Number 53, November 1965
Synthetics: J.R. Jones, 5-6.
Crystal growth techniques – Part 4: E.A.D. White, 7-10.
Geology of South Eastern Queensland: M. Russell-Smith, 11.

Volume 7, Number 54, December 1965
Where to from here?, 8-11.

Volume 8 January 1966 - December 1966

Volume 8, Number 55, January 1966
The geological environment of Australian precious opal: P. A. Males, 5-7.
The use of the hand spectroscope in quick gem testing: R. Thurm, 8-11.
We can’t please everybody!, 12-13.

Volume 8, Number 56, February 1966
Developing the powers of observation in gem testing: R.T. Liddicoat Jr., 5-8.
Green quartz and aventurine: P.A. Males, 9-11.

Volume 8, Number 57, March 1966
Developing the powers of observation in gem testing – Part 2: R.T. Liddicoat Jr., 5-8.
Mount Franklin, 9,11.
Diamond awards, 11.
The hand spectroscope: R. Thurm, 14.

Volume 8, Number 58, April 1966
Scientists solve a diamond mystery – Research in South Africa, 5-6.
The terminology of gem colours: C.J. Parsons, 7-9.
Developing the powers of observation in gem testing – Part 3: R.T. Liddicoat Jr., 11.

Volume 8, Number 59, May 1966
Gem testing with a lens – and know-how: A. Farn, 5-8.
The gem cutter: P.W. Leadbeater, 10-11.
The cobra stone – A legend of India, 12.

Volume 8, Number 60, June 1966
Restrictions on opal buying, 4.
Federal president’s address to conference: Professor H.C. Bolton, 5-6.
Cabocho R.I. determined by refractometer, 9.
The cultured pearl – Its history and development to the present day – Part 1: C.D. George, 10-12.

Volume 8, Number 61, July 1966
Modern pearl culture started in Australia: C.D. George, 5-7.
Release of wartime diamonds, 7.
The cutting of diamonds: R.D. Turner, 10-11.
The basic instruments to start your own gemstone testing: A.E. Farn, 12.

Volume 8, Number 62, August 1966
Pirates at Agate Creek, 5-6.
Diamonds – A rise in price, 6.
The cultured pearl – Production methods: C. D. George, 7-10.
Colour banding in sapphire, 11.

Volume 8, Number 63, September 1966
The sapphire fields of Anakie: O. Andersen, 5-7.
The cultured pearl – Production methods: C.D. George, 8-10.
A new doublet (synthetic spinel & fabulite), 10.
The Australian Gemmologist 1958-2009 Contents - 5 -
New on the market (opal triplet), 12

Volume 8, Number 64, October 1966
Japan’s pre-eminence in pearl culture: C.D. George, 5-7.
Opal pseudomorphs and the candle-box trade
From ‘They Struck Opal’: F.E. Murphy, 10-13.

Volume 8, Number 65, November 1966
Japan’s pre-eminence in pearl culture (continued): C.D. George, 9-11.

Volume 8, Number 66, December 1966
The nature and origin of opal: P.J. Darragh, A.J. Gaskin, 5-9.
Go to Andamooka: G. Woods, 19-21.

Volume 9 January 1967 - November 1967

Volume 9, Number 67, January 1967
Iris-opal from Mexico: J. Sinkankas, 5-7.
Opalised 'steel band' from Lightning Ridge, 8.
Australia’s position in the pearl industry: C.D. George, 9-10.

Volume 9, Number 68, February 1967

Volume 9, Number 69, March 1967
Synthetic diamonds: H.C. Bolton, 5-10.

Volume 9, Number 70, April 1967
Nomenclature and trading Part 2: A.A. Wirth, 7-9.

Volume 9, Number 71, May 1967
The gemstones of America: G.V. Axon, 5-6.
Watch these green stones: J.H. Oughton, 12-13.

Volume 9, Number 72, June 1967
Geology and gemming: Professor R.T. Prider, 6-10.
The GAA comes of age: M. Symons, 5-6.
Amethyst from Onslow, WA: H.F. Whitworth, 7.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 9-11.

Volume 9, Number 73, July 1967
New light on the world’s rarest gem (taaffeite): M. Symons, 5-6.
Amethyst from Onslow, WA: H.F. Whitworth, 7.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 9-11.

Volume 9, Number 74, August 1967
The origin of negative crystals in gemstones: W.F. Epple, 6-11.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 15-16.
Ceylonese jewellery through the ages: L.C. Siedle, 17-19.

Volume 9, Number 75, November 1967
Synthetic beryllia crystals: N.R. McDonald, 7-9.
A new taffeite discovered: G.A. Bruce, 14.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 15-17.
Phosphorescence in Australian opal: P.A. Males, 18.

Volume 10 February 1968 - November 1970

Volume 10, Number 1, February 1968
Three generations of gem merchants in Ceylon: L.C. Siedle, 7-17.
Gems (a poem): N.P. Jamison, 17
Handling and care of gemstones: G.A. Tombs, 18.
The care and cleaning of jewellery: A. Clark, 19.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 21.
Precious opal in an unusual environment: P. Males, 24.

Volume 10, Number 2, May 1968
Pegmatites and gem minerals: R.T. Prider, 7-10.
The identification of lost or stolen jewellery and gemstones: photography as an aid to recovery: F.B. Cocks, 11-14.
Western Australian emeralds: J.E. Glover, 15-16.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 21-23.
What is true jade?: G.A. Tombs, 28.

**Volume 10, Number 3, August 1968**

Zoisite: A new and unique gem: G.A. Bruce, 7-8.
The identification of lost or stolen jewellery and gemstones: photography as an aid to recovery Part 2: Photomicrography of inclusions in gemstones: F.B. Cocks, 9-12.
Around his World in 80 years - A tribute to Prof. Dr K. Schlossmacher: R. Wolf, 15.
The Darya-i-Nur diamond and the Tavernier Great Table: V.B. Meen, A.D. Tushingham, G.G. Waite, 16-25.
Stones seen: J.H. Oughton, 26-29.

**Volume 10, Number 4, November 1968**
The problems of amethyst: A.C. McLaren, 7-9.
Opal in volcanic rock: P.A. Males, 9-11.
The direct vision spectroscope: J.H. Oughton, 21-27.
Nomenclature and trading Part 3 (continued): A.A. Wirth, 30-31.
Stones seen: J.H. Oughton, 32-33.

**Volume 10, Number 5, February 1969**
The alexandrite effect: G.J. Troup, 9-12.
Modern reefs: E.A. Sanders, 21-25.

**Volume 10, Number 6, May 1969**
Metamorphism and gemstone formation: R.T. Prider, 7-9.
Cameos and intaglios: P.W. Leadbeater, 15-17.

**Volume 10, Number 7, August 1969**
Nomenclature and the law: J.H. Oughton, 5-6.

Microtextures of Australian chalcedony, chert and jasper: P.A. Males, 9-14.
French government decree to stop fraudulent gem trading, 15-18.
The radiofrequency spectra of gemstones: G.J. Troup, 19-22.
Stones seen: J.H. Oughton, 26-33.

**Volume 10, Number 8, November 1969**
Volcanic gem opals: the result of an examination by electron microscope: P.J. Darragh, J.V. Sanders, 5-8.
The Barkley Highway murder: F.B. Cocks, 9-11.
Call them what they are: Esther Hendler’s gem-name crusade: A. Ward, 12-14.
Colour changes in elbaite tourmaline from Ravensthorpe, Western Australia: P.L.C. Grubb, T.H. Donnelly, 15-18.
The absorption spectra and luminescence of the blue, green and yellow colours of synthetic spinels: R. Webster, 27-28.
Stones seen: J.H. Oughton, 30-33.

**Volume 10, Number 9, February 1970**
Forensic problems in jewellery: R. Webster, 7-13.
The green vault in Dresden: K. Cronstedt, 14-16.
The publication explosion: P.B. Lapworth, J.H. Oughton, 19-22.
A new synthetic emerald and a simulated diamond, 30.

**Volume 10, Number 10, May 1970**
Opal in the nickel search in Western Australia: R.T. Prider, 7-11.

**Volume 10, Number 11, August 1970**
Yellow sapphire – Natural or synthetic: J.H. Oughton, 5-8.
Synthetic gem diamonds, 12.
Some recent advances in scientific understanding of gemstones: H.C. Bolton, 13-16.

Fingerprinting of jewellery: R. Webster, 17-23.

Stones seen: J.H. Oughton, 24-25.

Look through your magnifying glass: R. Wolf, 29-30.


**Volume 10, Number 12, November 1970**

The first gem quality synthetic diamonds grown by GEC scientists, 5-7.

Several simple tests can identify the man-made diamonds: R. Crowningshield, 7-9.

A case for international agreement about ruby: J.H. Oughton, 10-11.

What exactly is ruby?: P.B. Lapworth, J.H. Oughton, 11-14.


Ultimate gem authority, 26

**Volume 11 February 1971 - November 1973**

**Volume 11, Number 1, February 1971**

The spectroscope: measuring wavelengths without a built-in scale: H.A. Mortley, 3-4, 27.

A geological curiosity: C.A. Schifffmann, 5-8, 26.


**Volume 11, Number 2, May 1971**

Mineralogy and metallurgy of gold: H.W. Fander, 3-4.

Gemstones in the system BeO-MgO-A12O3: D.R. Hudson, 5-9.


The classification of black opal: N.S.W. Opal Research Group, 24.


GAA definition of black opal, 26.

The myth of the Geierstein opal: P.B. Lapworth, 27, 32.


**Volume 11, Number 3, August 1971**

More confusion with synthetic yellow sapphire: D. McColl, J.H. Oughton, 3-5.

Key for identification of common cut and uncut gemstones: D.R. Hudson, 6-7.

Diamonds from seawater: P.W. Leadbeater, 8-10.


Stones seen: J.H. Oughton, 26-27.

**Volume 11, Number 4, November 1971**


A problem in diamonds: R. Webster, 5-6.

Photomicrography without a camera: C. Lang, 7-12.

Discourse on valuation principles: G.A. Tombs, 13-16.

Black opal nomenclature: A. Kalokerinos, 16.


Reply to Dr Eulitz’s comment: S. Suzuki, 25-27.


Big WA emerald crystal: H.R. Perry, 29.

**Volume 11, Number 5, February 1972**

RutileWare quartz and ilmenite: P.A. Males, 3-4.

Another colour-changing sapphire: J.H. Oughton, 4.


Brazilianite: R.J. Reeve, 8-10.

New occurrences of gem minerals in Australia: R.O. Chalmers, 10-12.

Labradorite location in central Queensland: J.H. Oughton, 12.

Red diamonds from Siberia: International Diamonds Annual, 14-20.

The Scandinavian diamond nomenclature: H. Tillander, 21-22.

Opal nomenclature discussion, 23-24.


**Volume 11, Number 6, May 1972**

Some experiences and investigations into damage to gem materials: R. Webster, 3-8.

Valuation principles as applied to coloured gemstones: G.A. Tombs, 9-14.


Are you sure it’s toaz?: F.H. Pough, 17-19.

Russian synthetic diamond made in 1967, 19.

Wrong to use Mohs to measure hardness?: The Canadian Jeweller, 20-22.


**Volume 11, Number 7, August 1972**

Why crystallography?: P.A. Males, 4-6.

The law and the role of gemmology: R. Webster, 7-16.


New mosaic triplet: S. Suzuki, 23, 32.

- 8 - The Australian Gemmologist 1958-2009 Contents

**Volume 11, Number 8, November 1972**
Inclusions in gemstones: E. Guebelin, 3-14.

**Volume 11, Number 9, February 1973**
Some archaic instruments in present day use: J.H. Oughton, 4-13.
Inclusions in opal: investigation of crystal inclusions in a black potch ‘nobby’ from Lightning Ridge, NSW: P.A. Males, 15-16.
What is this thing called hardness?: V.J. Hearnes, 16-17.

**Volume 11, Number 10, May 1973**
Amber, the gold of the North: E.R. Sasnaitis, 3-7.
Intriguing discoveries about growth in diamonds: S. Tolansky, 21-25.
Stones seen, 28-31.

**Volume 11, Number 11, August 1973**
Irradiation of gemstones: L.A. Mumme, 7-10.
Sapphire mining in New South Wales: A.A. MacNevin, 14-16.
Diamond prospecting: M.J. Lawrence, 22-29.

**Volume 11, Number 12, November 1973**
Gems of special importance in the great museum collections: H.J. Schubnel, 3-10.
Scanning electron microscopy and opals: R.A. Ball and A.S. Malin, 16-19.
A member of the ugrandite garnet series found in Western Australia: R.L. Burns, 19-20.

**Volume 12 February 1974 - November 1976**

**Volume 12, Number 1, February 1974**
Gemmology under difficulties: W. Gower, 3-4.
Gem quality kyanite crystals from the Harts Range, Northern Territory: P.A. Males, 5-8.
Stones seen and discussed, 9-10.
Ilmenite crystals associated with rutilated quartz, from Brazil: P.A. Males, 11-12.
Real synthetic alexandrite! & paramagnetic star diopside, 13.
Some thoughts about agate formations of Scotland: S. Sim, 16-19.

**Volume 12, Number 2, May 1974**
Gemstones in and out of the Australian Museum collections: F.L. Sutherland, J.E. Hingley, 31-35.
“1925 … and all that”: B.W. Anderson, 36-41.
The jet age: Professor C. E. Marshall, 42-55.
Discussion on agate: R.A. Ball, 55.
Brazillian precious opal: P.A. Males, 56-57.

**Volume 12, Number 3, August 1974**
Short cuts to certainty: B.W. Anderson, 71-74.
A gemmological study of emerald from Poona, WA: J.M. Graindorge, 75-80.
‘Pilbara jade’: H.W. Fander, 80.
Synthetic diamonds: H.C. Bolton, 81-83.
Industrial diamonds: G.J. Gellie, 84-88.
Liesegang rings: R.A. Ball, 89-91.
Mexican onyx and other marbles: P.A. Males, 92-94.
Synthetic-like fluorescence in a natural sapphire: G. Tombs, 94.
Further comments on the double dispersion design: S. Suzuki, 95-97.

**Volume 12, Number 4, December 1974**
Treated stones: J.H. Oughton, 111-118.
A survey of some research work on impurities in gems: C.M. Scala, 119-124.
“Pilbara jade”: D.R. Hudson, 127-133.
The phantom table: P.W. Leadbeater, 135.
New mining legislation in New South Wales, 140.

**Volume 12, Number 5, February 1975**
Emerald occurrence near Menzies, Western Australia: G.B. Whitfield, 150-152.
Classification and nomenclature of precious opal: N.A. Clayton, 152-154.
Precious opal in Queensland: B.R. Senior, 155.
The discovery of cap-quartz in northern NSW, Australia: R.E. Brown, 156-159.
Electromagnetic resonance in yellow sapphires: E.N. Barrington, 159-160.

**Volume 12, Number 6, May 1975**

Opal from Coolgardie, Western Australia: R.A. Ball, 171-173.
Stones seen in shop windows: L. Sabine, 191-192.

**Volume 12, Number 7, August 1975**

Chinaman’s hats: K.A. Sheens, 208-209.
Stones seen: K. Cronstedt, 209.
Crystallography is fun: J. & P. Sutton, 210-220.
Nephrite jade deposits, Cowell, South Australia: D. Nichol, 220-221.

**Volume 12, Number 8, November 1975**

On the origin of volcanic opal from Houghlahan’s Creek: I.A. Mumme, L. Seibright, R. Ball, 235-240.
Mineral collecting: W. Birch, 251-252.
Stones seen: L. Hennessy, C. Eglington, 258.

**Volume 12, Number 9, February 1976**

J.H. Oughton Memorial Issue
A tribute to John H. Oughton: R. Wolf, 264.
The late J.H. Oughton: P.B. Lapworth, 265-266.
The direct vision spectroscope: J.H. Oughton, 276-282.

**Volume 12, Number 10, May 1976**

Ruby corundum from the Harts Range, NT: P.A. Males, 310-312.

**Volume 12, Number 11, August 1976**

Calculating radio radiopacity: H. Magryn, 323-326.

- 10 - The Australian Gemmologist 1958-2009 Contents

Indonesian opal: B. O'Leary, R.A. Ball, 327-329.
Stones seen, 330.
Horn – Some aspects of interest to gemmologists: G. Brown, 331-338.

**Volume 12, Number 12, November 1976**

Opal in south western Queensland: R.A. Ball, A. Daniels, 359-363.
Two interesting zinc minerals: M.J. O'Donoghue, 364.
Emeralds – Three for $1.50: B. Chambers, 365-370.
Two new precious corals: Indonesian opal: B. O'Leary, R.A. Ball, 327-329.
Stones seen, 330.
Horn – Some aspects of interest to gemmologists: G. Brown, 331-338.

**Volume 13, Number 1, February 1977**

Black opal: B. O'Leary, 3-11.
GIA debuts new educational centre, 19.
The geology of the moon: A.J.W. Gleadow, 22-27.

**Volume 13, Number 2, May 1977**

The ‘jeweller’s eye’: R. Webster, 43-46.
Drought bonanza for prospectors, 46.
The structural characteristics of various ivories: G. Brown, A.J. Moule, 47-60.
Did you know?, 62-64.

**Volume 13, Number 3, August 1977**

A goldsmith’s workshop in Roman Britain: P.A. Clayton, 67-69.
Paste or glass: J. Snow, 71-74.
How to buy a pearl: E. Kihara, 75-77.

**Volume 13, Number 4, November 1977**

Natural or synthetic opal?: R.A. Ball, 104-105.
Viking treasures, 120.
That looks interesting let’s put it under the microscope: D. Smith, 121-126.
The atomic lattice of gold: Gold Bulletin, 127.

**Volume 13, Number 5, February 1978**

Identification of synthetic opal: R.A. Ball, 131-133.
The burinut - A new source of vegetable ivory: G. Brown, 134-140.
Why a diamond?: Adamas, 141-143.
From Russia with ‘kimberlite’: Retail Jeweller, 150.
Opium dealers are switching to jade, Retail Jeweller, 153-155.
Imitation opal: R.A. Ball, 156-158.
The first tool of gemmology won’t cost you a penny: W.D. Hanneman, 159-160.

**Volume 13, Number 6, May 1978**
A question of colour: A. Farn, 163-165.
New diamond simulant may fool the unwary: A. Hodgkinson, 165-168.
Coral returns to fashion: Retail Jeweller, 169-171.
Notes on sapphires from stream gravels at Frazer’s Creek in Glen Innes area, NSW: I.A. Mumme, R.A. Ball, 173-175.
Gamma-ray spectrophotometry (corundum), 176.
The Little River sapphire lease: I.A. Mumme, 177-179, 182-185.
Heat treatment of Australian blue sapphires: G.A. Tombs, 186-188.

**Volume 13, Number 7, August 1978**
The refractory metamorphic gemstones of Australia: A.F. Wilson, 203-209.
A note on the structure of the fire agate: R.A. Ball, 210-211.
Historical diamonds: De Beers consolidated Mines, 220-222.
The star of Sierra Leone: De Beers Consolidated Mines, 222-224.
Irradiation of gemstones: I. Mumme, 236.
The production of interference by the Figure-O-Scope: J. Snow, 237.
The identification of some rare organic gem materials: G. Brown, 238-239.

**Volume 13, Number 8, November 1978**
Before the gems came the crystals: A.E. Alexander, 247-250.
Crystal imperfections in natural gem diamond: P.R.W. Hudson, 253-258.
Gemmological literature you should read: G. Brown, 261-262.

The colouration of Mt. Surprise topaz by gamma irradiation: I.A. Mumme, L. Seibright, 274-277.
How to feel the difference between a diamond and a cubic zirconia: H. Anderson, 285-286.

**Volume 13, Number 9, February 1979**
Rhodonite or pink jasper: R.B. Kelly, 291-295.
Porous Gilson synthetic black opal: A.D.C Robertson, 297-299.
The use of the Figure-O-Scope in gemmology: J.J. Snow, 301-306.
Opal references and abstracts - Part II: R.A. Ball, N. Clayton, 307-310.

**Volume 13, Number 10, May 1979**
Why sapphires from Sri Lanka differ from those from Australia: A.F. Wilson, 315-317.
Designed to detect Djevalite: Retail Jeweller, 317-318.
Amethyst – Natural or not?: R.A. Powell, 321-323.
Production of zirconia and other synthetic gem materials by the ‘skull’ melting technique: I.A. Mumme, 333-334.
Opal references and abstracts - Part II (continued): R.A. Ball, N. Clayton, 334-336.

**Volume 13, Number 11, August 1979**
Opals from the air: Uniken, 362.
Opal references and abstracts - Part II (continued): R.A. Ball, N. Clayton, 363-366.

**Volume 13, Number 12, November 1979**
Natural and radiation induced colouration of smoky quartz: R. Powell, 373-378.
Sapphire and silk: R.A. Ball, I.A. Mumme, 379-381
Synthetic opal for natural opal?: R.A. Ball, 386.
An unusual agate: R.A. Ball, 390.
Corallium precious corals: G. Brown, 391-400.
Volume 14, February 1980 - November 1982

Volume 14, Number 1, February 1980
Pleochroscopes - Their theoretical and practical application to gemmology: J.B. Taylor, 3-12.

Volume 14, Number 2, May 1980
Modern methods of gemstone colouration: I. Mumme, 10-11.
The determination of the maximum and minimum refractive indices of a gemstone: W.H. Thompson, 13-15.
The opal – Gem of mystery, 18-19.

Volume 14, Number 3, August 1980
Gill’s index: E. Gubelin, 27.
The radiographic features of Keshi pearls: G. Brown, 28-29.
Natural and man induced irradiation of diamond - Possible identification between irradiation types: G.A. Tombs, 30-32.
Thermal conduction in gemstones – Part 1: Oscillations induced by dry ice: R. Thwaite, J. James, S. Goldsmid, 47-48

Volume 14, Number 4, November 1980
Nephrite jade from Cowell, South Australia: R.A. Ball, 53-56.
Metamorphic processes in gemstone formation: A.F. Wilson, 57-63.
Further thoughts and questions on Australian sapphires, their composition and treatment: G. Tombs, 64-65.
An attempt to assess the recent popularity of different gems: J.N. Butler, 77-82.

Volume 14, Number 5, February 1981
How it works: The Stott dichroscope: C.R. Stott, 85-86.
Stones seen, 86.

Volume 14, Number 6, May 1981
Where have all our answers gone? Or let me introduce you to Gill’s Index: J.O. Gill, 117-119.
Chrysocolla - A little known gemstone: A.D. Robertson, 127-129.
Examination of a fossil pearl: G. Brown, 131-134.
Some observations on goldstone: G. Brown, J. Snow, 139-140.
The determination of the maximum and minimum refractive indices of a gemstone (continued): W.H. Thompson, 142-143.

Volume 14, Number 7, August 1981
The Biwa pearl: G. Brown, 153-156.
Reflections on the use of the hand spectroscope: G.M. Pearson, 157-159.
Stones seen: Amber Inclusion, 160.
Jelly opal from White Cliffs: J.V. Sanders, 161-165.

Volume 14, Number 8, November 1981
So you think you have a new mineral!: E.H. Nickel, 181-184.
Determination of refractive indices: H.C. Wickett, 194.
SWUV diaphanity of ruby: G. Brown, 200-203.

Volume 14, Number 9, February 1982
‘Star’ diamond: P. Humble, 219-220.
Volume 14, Number 10, May 1982
Chudleigh Park peridot: G. Brown, H. Bracewell, 253-256.
Further studies on iridescence of marine shells: R.A. Ball, 266-271.

Volume 14, Number 11, August 1982
Identifying turquoise: G. Brown, 289-299.
Common opal and potch opal: R.A. Ball, 305-310.

Volume 14, Number 12, November 1982
Honey opal: R.A. Ball, 324-325.
Examination of an unusual item of 'native' jewellery: G. Brown, J. Snow, D. Lund, 334-337.
The quartz minerals of the Redcliffe Peninsula: J.N. Butler, 338-341.
The approximate iron content of some sapphires: G. Pearson, 347-349.

Volume 15 February 1983 - November 1985

Volume 15, Number 1, February 1983
Elucidating the optical theory of chatoyancy and asterism: A. Wuthrich, M. Weibel, E. Gubelin, 3-5.
Harts Range hessonite: H. Bracewell, G. Brown, 6-10.
Precious opal from New Zealand: R.A. Ball, 12-16.

Volume 15, Number 2, May 1983

X-Irradiation of spodumene: G. Pearson, 45.
Gem azurite from the Eclipse mine – Chillagoe area, Queensland: A.D. Robertson, 46-49.
Mt Isa iolite: G. Brown, H. Bracewell, 53-55.

Volume 15, Number 3, August 1983
Certification of opal: G. Sherman, 71-73.
A proposal for the classification of opals: J.V. Sanders, 75-78.
The assessment of gemstone colours: G. Brown, 81-89.

Volume 15, Number 4, November 1983
Twenty-five years on: J.R. Holdsworth: 103.
Direct x-radiography of pearls: G. Brown, 105-121.
Diamond grading system foundations and comparisons: G. Tombs, 124-127.

Volume 15, Number 5, February 1984
Inclusions in synthetic corundum by Chatham: G. Brown, 149-154.
Negative inclusions in zircon from Anakie, Queensland: A.D. Robertson, 164,166.

Volume 15, Number 6, May 1984
Experimental pearl radiography: G. Brown, N. Wainwright-Smith, 182-188.
Turquoise or chrysocolla from the Jervois area: H. Bracewell, G. Brown, 189-195.
The Seward gemmological microscope: G. Brown, 196.

Volume 15, Number 7, August 1984
Emerald from the Kitwe district, Zambia: G. Graziani, E. Gubelin, S. Lucchesi, 227-234.
Stones seen – Mystery cabochons: D. Sandeman, 240.

The Australian Gemmologist 1958-2009 Contents - 13 -

**Volume 15, Number 8, November 1984**

Facetable prehnite: R. Beattie, G. Brown, 258.
The Snow gemmological spectroscope: G. Brown, 259-262.
Harts Range sunstone: G. Brown, H. Bracewell, 263-274.
Surface repaired rubies: R.W. Hughes, 279-280.

**Volume 15, Number 9, February 1985**

Recording gemstone absorption spectra: G. Brown, 308-309.
Synthetic or imitation: G. Brown, 319-321.

**Volume 15, Number 10, May 1985**

Properties of ornamental stones and their gemmological identification: E. Gubelin
1. The hardness scale, 337
2. Streak colours, 338
3. Absorption spectra, 342
4. Fluorescence colours, 344
5. The Becke Line test, 347
6. The identification tables arranged in colour groupings, 348
7. Cryptocrystalline quartz varieties, 382
8. Serpentine group properties, 396.

**Volume 15, Number 11, August 1985**

Amazonite from the Koppio District, South Australia: H. Bracewell, G. Brown, 404-408.
Australian ideal design: Comments by G. & M. Vargas, 421-424.

**Volume 15, Number 12, November 1985**

Jade: G. Tombs, 445-447.
Nummite: O. Dragsted, 461.

**Volume 16 February 1986 - November 1988**

**Volume 16, Number 1, February 1986**

The hardness of Australian diamonds: C.R. Baker, 11-12.
Presidium DiaMeter: G. Brown, 17.

**Volume 16, Number 2, May 1986**

The Proceedings of the 20th IGC, Sydney - Part 1
Examination of surface features of Argyle diamonds from Western Australia: G.A. Tombs, B. Sechos, 41-44.
Opal from Mexico: E. Gubelin, 45-51.
Review of the geology of the gemstones of Sri Lanka: M.B. Katz, 52-56.
Minerals and gemstones of Pakistan: C. Kovak, 57-59.
Gemstones in China – Especially jade and similar stones: A. Chikayama, 60-63.
Abstracts - Part 1, 80-83.

**Volume 16, Number 3, August 1986**

The Proceedings of the 20th IGC, Sydney - Part 2
Production techniques of commercially available gem rubies: K. Schmetzer, 95-100.
Gemstones of the Beechworth area: W.D. Birch, 101-106.
Abstracts - Part 2, 116-121, 128-129.
Inclusions in Australian sapphire before and after heat treatment: T.S. Coldham, 122-125.

Volume 16, Number 4, November 1986
An unusual Keshi pearl: G. Brown, 139-140.
Hollandite in quartz: J.I. Koivula, C.W. Fryer, 141-142.
Opal pineapples from White Cliffs: G. Pearson, 143-150.
Boulder opal triplet: R. Brightman, D. Sandeman, 151-152.
The gemmology of the shell cameo: G. Brown, 153-161.

Volume 16, Number 5, February 1987
Some more on crystal opal: B. O'Leary, 175-177.
Structural aspects of fingerprint inclusions in corundum: Tay Thye Sun, 188-190.
Miscellany: jet; plastic imitation Biwas; Australian colour-changing sapphire; Orissa garnet; Australian synthetic opal: G. Brown, J. Snow, S.M.B. Kelly, 195-198.

Volume 16, Number 6, May 1987
Presidential address to conference: G.A. Tombs, 211-212.
A system for the evaluation of opal: Capt. S.O. Haugen, 213-216.
Inclusions in yellow chrysoberyl, natural and synthetic alexandrite: U. Henn, 217-220.
The origin of sapphire in northeastern NSW: S.R. Pecover, 221.
The structure of sedimentary opal: Editor, 222.
Notes on Tasmanian gemstones: C. Thrower, D. Steane, 223-224.
Pink and violet sapphires from Nepal: L. Kiefert, K. Schmetzer, 225-230.

Volume 16, Number 7, August 1987
The plastic coating of gemstones: R.W. Hughes, 259-261.

Volume 16, Number 8, November 1987
Review of jade in South Australia: J.G. Olliver, 283-28286
LWUV fluorescence of gemstones: J. Snow, G. Brown, 296-300.

Volume 16, Number 9, February 1988
Argyle champagne diamonds: G. Brown, 319-322.
Precious opal at Coober Pedy: R.S. Robertson, D.C. Scott, 323-327.
Diagnostic properties of the latest synthetic stones: E. Gubelin, 329-341, 344-345.
Manganano sugilite: G. Wigmore, 351.

Volume 16, Number 10, May 1988
Presidential address: G.A. Tombs, 359
Numerical approach to gem identification: H.S. Pienaar, 374-378.

Volume 16, Number 11, August 1988
Verneuil sapphire with induced fractures: G. Brown, 419-421.
Study Club lab reports; G. Brown, J. Snow, 424-429.

Volume 16, Number 12, November 1988
The Diamond Selecter II: G. Brown, J. Snow, 440-442.
Gems around Australia: H. Bracewell, 459-463.
Gemmology study club lab reports; G. Brown, J. Snow, 464 470.
The gemstones of Pakistan: R.J. Thompson, 471-472.
Specular heat-treated garnet: D. Friedman, 477.
The Pool emerald: W. Hicks, 478-479.

Volume 17 February 1989 - November 1991
Volume 17, Number 1, February 1989
Optronix® gemmological instruments: J. Snow, G. Brown, 3-4.
The discovery of a new emerald occurrence in Brazil, Capoeirana: D. Schwarz, 4-5.
The mining of sapphires: T.J. Nunan, 7-12, 18-19.
Greenbushes spodumene-quartz: G. Brown, H. Bracewell, 14-17.

Volume 17, Number 2, May 1989
Gems around Australia (Mt Isa), Part 2: H. Bracewell, 60-62, 64.
The Snow diamond light: G. Brow, 63.

Volume 17, Number 3, August 1989
Mourning jewellery: J.C. Birmingham, 82-84.
The characteristics of Burmese spinel: U. Tin Hlaing, 84-87.
A gemmological study of 'Opalite' and 'Opal Essence': J.I. Koivula, R.C. Kammerling, 93-98.
Dayboro variscite: G. Brown, 98-100.
Yundamindera 'fire' opal: G. Brown, H. Bracewell, 101-103.

Volume 17, Number 4, November 1989
Jack Snow Memorial Issue
Introduction to the Memorial issue: G. Brown, 117.
Using the spectroscope: S.M.B. Kelly, 118-119.
Economical microscopes for gemmologists: T. Linton, G. Brown, 120-121, 156-158.
The use of the Figure-O-Scope in gemmology (Reprint): J.J. Snow, 122-126.
Wave Hill prehnite: H. Bracewell, 127-129.
Artistry through the microscope: J.I. Koivula, 139-141.
The use of isotopes in exploration for gemstones: A.F. Wilson, 142-146, 166.
Some rare gemstones: M. O'Donoghue, 147.
A synthetic by any other name: P. Read, 153-156.
Talkin’ bout gem-testing instruments: R. Hughes, 159-164.

Volume 17, Number 5, February 1990
New aspects of the emerald workings in Colombia: D. Schwarz, 168-170.
A dark-field illuminator for gemmological microscopes: T. Linton, G. Brown, 171-172.
An interesting cultured blister pearl: R.C. Kammerling, J.I. Koivula, R.E. Kane, 174-175.
Queensland sapphire: N.J. Krosch, W. Cooper, 460-464.
Synthetic red spinel: A. Hodgkinson, 466-468.
The Shibuya 150 refractometer: T. Linton, G. Brown, 468-469.
Gem quality almandine garnets from Antarctica: R. Brightman, 470-473.

Volume 17, Number 12, November 1991
Australian emeralds: D. Schwarz, 488-497, 501.
Gems around Australia - Part 6 (Broome): H. Bracewell, 502-503.
Hydrothermally synthesized agate-like crystals: M. Hosaka, 503-504.
Burma-type rubies from Vietnam: U. Henn, 505-509.
New Myanmar ruby deposit: U. Tin Hlaing, 509-510.
Queensland sapphire Part II: N.J. Krosch, W. Cooper, 511-515.
Gemmology study club lab reports: G. Brown, S.M.B. Kelly, H. Bracewell, 526-531.

NEW FORMAT
Volume 18, February 1992 - November 1994

Volume 18, Number 1, February 1992
Trade embargo on coral: G. Brown, 5-6.
The Mintabie opal field: I.J. Townsend, 7-12.
Corundum veinlets in ruby: Sun Xian Ru, 22-23.

Volume 18, Number 2, May 1992
The care and cleaning of gem materials: M. Stather, 34-38.
Robotic opal cutting: A. Cody, 40-41.
Greenstone from Myanmar: U. Tin Hlaing, 42.
Torrington emerald: G. Pearson, 47-49.
Material loss when sawing gem diamond: Y. Kerremans, E. Wanten, 49-51.

Bead buyer’s and parcel picker’s filter set: T. Linton, G. Brown, 54-55.
Gemm Study Club Report, 56-60.

Volume 18, Number 3, August 1992
Sapphires and rubies from volcanic provinces: R.R. Coenraads, 70-78.
Spectroscopic study of Biron synthetic pink beryl: E. Fritsch, S. Muhlmeister, A. Birkner, 81-82.
Imitation lapis lazuli, charoite and azurite-malachite: D. Bennett, J.I. Keeling, 83-84.

Volume 18, Number 4, November 1992
The Australian sapphire industry: T.S. Coldham, 104-107.
Scapolite from Sinjiang Region, west China: Zhang Peili, 115-117.
The carat: R. Hannaford, 117-118.
Rhodochrosite from Argentina: J.A. Saadi, J.C. Grasso, 125-132.

Volume 18, Number 5, February 1993
Uvarovite from Outokumpu, Finland: U. Henn. H. Bank, 142-144.
Determination of the weight of a set stone by hydrostatic weighing: R.K. Mitchell, 143-144.
Composite imitation of crystal opal: R.C. Kammerling, J.I. Koivula, 162-164.
Shan states sapphires: U. Tin Hlaing, 164.
Gemm Study Club Report, 169-173.

Volume 18, Number 6, May 1993
Gems around Australia: H. Bracewell, 193-194.

- 18 - The Australian Gemmologist 1958-2009 Contents
Volume 18, Number 7, August 1993
Unusual twinning in natural and synthetic amethyst: U. Henn, 222-224.
Gems around Australia: H. Bracewell, 239-242.

Volume 18, Number 8, November 1993
Memorial W.H. Hicks, 246.
Australian synthetic periclase: G. Brown, 265-269.
Gem Study Club Report, 271.

Volume 18, Number 9, February 1994
Introducing ESR/EPR spectroscopy to gemmology: D.R. Hutton, G.J. Troup, 278-279.
The pearl industry in Queensland and Torres Strait: T. Ward, 282-284.
A garnet location at Mt. Wyangapinny, near Pittsworth, on the Darling Downs: D.N. Cracknell, 285-286.

Volume 18, Number 10, May 1994
Bill Hicks Memorial Issue – Part 1: In appreciation, 310.
The name game: R.W. Hughes, 311-315.
A combined magnetic resonance and gamma-irradiation study of some green beryls: D.R. Hutton, G.J. Troup, 315-317.

Microsurfaces: A photoessay dedicated to Bill Hicks: J.I. Koivula, 323-325.
Notes on alexandrite chrysoberyl: S.J.A. Currie, 326-328.
Computer assisted gem identification: P. Read, 332-333.

Volume 18, Number 11, August 1994
Bill Hicks Memorial Issue - Part 2 The origin, formation and emplacement of diamonds: M. Stather, 342-345.
Radiolucency of diamond and its simulants: R. Coates, 348-351.
Hsa-Taw green tourmaline: U. Tin Hlaing, 352-353

Volume 18, Number 12, November 1994
Opal – Australia’s national gemstone: A. Bartram, 374-376.
1994 Patron’s Address: G. Tombs, 378.
Fracture filled diamonds: B. Secho, 379-385.
Gemlite™ polariscopes: T. Linton, B. Neville, A. Shields, 386-387.
Tahiti cultured pearl: M. Coeroli, 388-394.


Volume 19, Number 1, January-March 1995
A brief account of Myanmar’s pearl culture industry: Tint Tun, 2-4.
Jemeter™ Digital 90: T. Linton, A. Shields, B. Neville, 8-10.
The hazardous effects of synthetic emerald filter: B. Sechos, 69.

Volume 19, Number 3, July-September 1995
50th Jubilee issue
This issue contained the following papers of historical interest with respect to The Gemmological Association of Australia.
Introduction
History of the GAA: G.A. Tombs
History of the GAA (NSW Division): G.A. Tombs
Gemstones of New South Wales: R.R. Funston
Coenraads
History of the GAA (Victorian Division): W.E. Sandison
History of the GAA (Queensland Division): D.G. Sandison
Gemstones of Queensland: A.F. Wilson
History of the GAA (SA Division): A. Hill
Gemstones of South Australia: I.J. Townsend
History of the GAA (WA Division): B. Taylor, F. Parker
Gemstones of Western Australia: F. Parker
History of the GAA (Tasmanian Division): T.C. Roper, P. Walker
Gemstones of Tasmania: B. Sweeney
Pearls of Australia: D. O'Sullivan, D. Cropp, O. Bunter
History of The Australian Gemmologist: G. Brown
Epilogue

Volume 19, Number 4, October-December 1995
Amethysts and their occurrences: H. Bank, C.C. Milisenda, 175-177.
Notes from a Singaporean laboratory: Tay Thye Sun, 178-181.
The hazardous effects of refractometer contact fluid – A note: T. Linton, 185.

Volume 19, Number 5, January-March 1996

Volume 19, Number 6, April-June 1996
The status of pearl culture in Indonesia: T. Winanto, K. Mintardjo, 245-249.
Gemmological miscellany: G. Brown, 259-263.
Interesting gems from north-east Tasmania: B. Sweeney, 264-267.
Mong Hsak rhodolite garnet: U Tin Hlaing, Tin Tin Win, 270-272.
Notes from the Museum: G. Webb, 273-274.
The Empress Pearl® - A New Zealand cultured half-pearl: L. McKenzie, 336-338.
Crystal carving and other esoteric things: F.H. Thrupp, 351-352.

Volume 19, Number 9, January-March 1997
Tasmania and Antarctica: A long association: P.G. Quilty, 368-374.
Abalone pearls from Brass Strait: D. Cropp, 375-379.
An occurrence of gem quality diopside, Yinnietharra Station, Western Australia: F. Doedens, 380-382.
Identifying characteristics of hydrothermal synthetics: B. Sechos, 383-388.

Volume 19, Number 10, April-June 1997
The pearl fisheries of Sri Lanka – Some chapters from a forgotten history: M.M.M. Mahroof, 405-412.
Fibre torches: B. Neville, 413-414.
Yttrium Aluminium Perovskite: T. Linton, 419-420.
The Merlin Prospect – Australia’s next commercial diamond mine?: Ashton Mining Limited, 421.

Volume 19, Number 11, July-August 1997
Alexandrite chrysoberyl from Dowerin, Western Australia: Revisited: A. Bevan, P. Downes, 460-463.
Inclusions in agates and chalcedonies: P. Howard, 464-465.
Gems around Australia – Part 13 (Mooka Station, WA): H. Bracewell, 467-470.


Volume 19, Number 12, October-December 1997
A new era for opal nomenclature: A. Smallwood, 486-496.
A miscellany of organics: G. Brown, 503-506.


Volume 20, Number 1, January-March 1998
Pearl identification: S.J. Kennedy, 2-19.

Volume 20, Number 2, April-June 1998
New occurrence of demantoid in Namibia: Th. Lind, U. Henn, H. Bank, 75-79.

Volume 20, Number 3, July-September 1998
Touring the diamond factories of Amsterdam: A. Barnard, 98-101.
The Hodgkinson method, a.k.a. The eye and prism method: Clarifying the records: W. Wm. Hanneman, 102-104; Reply: D.B. Hoover, 104-105.

Treated blue diamond: B. Sechos, 124.

Cat's-eye black opal: M.S. White, 126.

**Volume 20, Number 4, October-December 1998**

Has science overthrown the king of gems?: A. Barnard, 138-140.

The Idar-Oberstein gemstone industry’s 500th anniversary: H. Bank, 141-144.


Alaskan jade: P. Howard, 149-153.

Scottish Gem Lab news: A. Hodgkinson, 154-158.

Alexandrite, emerald, ruby, sapphire and topaz in as biotite phlogopite fels from Poona, Cue District, Western Australia: G. Grundmann, G. Morteani, 159-167.

**Volume 20, Number 5, January-March 1999**


How to make an appraisal of jadeite: C.M. Ou Yang, 188-192.


Origin of sapphires from the Jizerská Louka alluvial deposit in north Bohemia, Czech Republic: P. Maliková, 202-206.

**Volume 20, Number 6, April-June 1999**

Geozoological prospecting for gold and gems: D.M. Colchester, 218-221.


Refractometers and the pin-hole disc: T. Linton, 227-229.


LH - an “old” Gemmological Property: W. Wm. Hanneman, 236-238.


Gemstones in a new light: A. Hodgkinson, 246-249.


**Volume 20, Number 7, July-September 1999**

Characterisation of recent and fossil ivory: V. Rolandi, 266-276.

The nomenclature of gemstones with special reference to the garnet and tourmaline mineral groups: E.L. Stevens, 277-279.

Ruby and variously coloured sapphires from Ilakaka, Madagascar: K. Schmetzer, 282-284.


Ekati – Canada’s first commercial diamond mine: An editorial review, 293-297.

Tester Model 590 for colourless moissanite/diamond: V.M.F. Hammer, J. Stefan, 298-301.

**Volume 20, Number 8, October-December 1999**

The visible absorption spectroscopy of emeralds from different deposits: I.I. Moroz, M.L. Roth, V.B. Deich, 315-320.


A personal critique of 'Modeling the appearance of the round brilliant cut diamond: Analysis of brilliance' in Gems & Gemology: G. Holloway, 331-335, 338-339.


Our past history: Statement respecting the opal industry at White Cliffs: T.C. Wollaston, 347-348.

**Volume 20, Number 9, January-March 2000**


In defence of gemmologists – A different view on nomenclature: W. Wm. Hanneman, 370-373.

A warning – Beware of 1.815 refractometer contact fluid: T. Linton, 373.


A new deposit of smoky quartz crystals from the Torrington area: H. Bracewell, 388-390.

Rare Australian gemstones – stichtite: R.S. Bottrill, G. Brown, 391-393.


**Volume 20, Number 10, April-June 2000**


Caveat Emptor: F.H. Thrupp, 436.


Volume 20, Number 11, July-September 2000

Present Russian synthetic and enhanced gemstones: V.S. Balitsky, 458-466.

Diffraction colours of opal: M. Ostrooumov, H.A. Talay, 467-472.


Surface reflectivity of synthetic moissanite: T. Linton, 478.

Chiastolite from Kyaukse, Myanmar: U Tin Hlaing, 479-480.

Unusual inclusions in quartz: J.I. Koivula, 481-482.


Chinese pearls: Their culturing and trading: Guo Tao, 486-490.

Volume 20, Number 12, October-December 2000

Dispersion measurement with the gemmologist’s refractometer - Part 1: D.B. Hoover, T. Linton, 506-516.


Rare Australian gemstones – Moonstone, A rare Queensland gemstone: H. Bracewell, 523-528.

Russian colourless synthetic diamond, now available in the market: J.C.C. Yuan, 529-533.

Australia’s gemstone resources and their markets: G. Brown, 534-539.


Volume 21, Number 1, January-March 2001

Tourmaline and aquamarine deposits from Brazil: J. César-Mendes, H. Jort-Evangelista, R. Wegner, 3-6.


Brazilian gem provinces: C.P. Pinto, A.C. Pedrosa-Soares, 12-16.


Origin of gem corundums from basaltic fields: F.L. Sutherland, D. Schwarz, 30-33.

The geology of Australian opal deposits: I.J. Townsend, 34-37.

View point – Much ado about nothing: W. Wm. Hanneman, 38-40.

Volume 21, Number 2, April-June 2001


The gemstone occurrences of Madagascar: U. Henn, C. Milisenda, 76-82.


Ornamental variety of pink marble with apatite found near Eppawala, Sri Lanka: M.D.P.L. Francis, P.G.R. Dharmaratne, 91-94.

Volume 21, Number 3, July-September 2001

Gemstones of Minas Gerais, Brazil: I.J. Townsend, 111-112.

Exploration for diamonds in South Australia: K. Wills, 113-115.


The gem emporium in Myanmar: U Tin Hlaing, 117-119.

An overview of China’s pearl industry: Hao Xie, Liping Li, 120-123.

Notes from the Museum focusing on travertine: G. Webb, 124.

Ti-Fe mineral inclusions in star sapphires from Thailand: S. Saminpanya, 125-128.


Volume 21, Number 4, October-December 2001

Dispersion measurement with the gemmologist's refractometer – Part 2: D.B. Hoover, T. Linton, 150-160.

The Australian Gemmologist 1958-2009 Contents - 23 -
Rare Australian ornamental materials – Zebra rock an ornamental stone from the East Kimberley, Western Australia: A.W.R. Bevan, 165-168.
Staurolite from the Lai Hka and Mong Keng areas, Myanmar: U Tin Hlaing, 169-170.

Volume 21, Number 5, January-March 2002
Five centuries of Mexican pearls: D. McLaurin Moreno, E.A. Castillo, 190-201.


Volume 21, Number 6, April-June 2002
The magnetic index: W.Wm. Hanneman, 234-235.
Louisiana opal: G. Brown, 244-246.
Recent observations on composite stones: U. Henn, 253-257.

Volume 21, Number 7, July-September 2002
Classification of natural opal Type 1: J. Schellnegger, 270-277.
New imitation gemstones from Australia: G. Brown, T. Linton, 283-287.
Orange sapphires or just lemons?: T. Coldham, 288-293.

Volume 21, Number 8, October-December 2002
Update of Australia’s gemstone and pearl resources: G. Brown, 273-277.
Colour in quartz: From atomic substitutions to nanoinclusions: P. Vasconcelos, B. Cohen, N. Calos, 278.
The processing and heat treatment of Subera (Qld) sapphire rough: M. Maxwell, 279-286.
The mystery about coloured diamonds: C. Carrington, 295-298.
Agate Creek agates: P Howard, 299-300.
Geoffrey Tombs – A pointer to inspiration: T. Linton, 486-489.
Diamond grading for the myopic: R. Bauer, 495-497.
Volume 22, January-March 2004 – October-December 2006
Volume 22, Number 1, January-March 2004
Culturing abalone half-pears – The story of the New Zealand Eyris Blue Pearl™: P. Hutchins, 10-20.
Agates and geodes from the Khur area, central Iran: M. Nazari, 21-28.
Amino acids in the nacre layers of shell from Magnavicula Penguin and blister pearls from Sanya, China: Huang Fengming, Chen Zhonghui, Zhou Ying, Yang Mingxing, 29-31.
Pink gem-quality orthoclase from the Mogok stone tract, Myanmar: U Hla Kyi, U Kway Thu, 32-34.
Sapphire-blue kyanite from Nepal: U. Henn, 35-36.
Volume 22, Number 2, April-June 2004
Crocoite: S.P. Sorrell, 59-63.
Spinel from Kayah State, Myanmar: U Tin Hlaing, 64-66.
Quality enhancement of Vietnamese ruby by heat treatments: P. Winotai, P. Limsuwan, I.M. Tang, S. Limsuwan, 72-77.
Volume 22, Number 3, July-September 2004
History of DIP DT Course: G. Brown, 91, 97.
Diamonds in Russia: F. Payette, 99-111.
The Modern De Beers and the significant changes to the diamond pipeline over the past decade: J. Morris, 112-124.
Diamond simulants: P. Cartwright, 125-131.
Volume 22, Number 4, October-December 2004
In The pink: Argyle’s diamond gift to Australia: A. Bevan, P. Downes, 150-155.
The Kasmigaura Pearl™: B. Dilenburger, 156-161.
Sapphire in basalt fake: T. Coldham, 171.
Volume 22, Number 5, January-March 2005
Pearl resources of China: Zhang Hui, Zhang Beili, 196-209.
Rubellite and other gemstones from Momeik Township, northern Shan State, Myanmar: U Tin Hlaing, Aung Khaing Win, 215-218.
Volume 22, Number 6, April-June 2005
The diamond pipeline: H.H. Lim, 244-252.
Krüss refractometer - ER 6010: T. Linton, R. Beattie, K. Hughes, 260-262.
Trapiche of Myanmar: K.K. Win, 269-270.
Volume 22, Number 7, July-September 2005
The pegmatitic gem deposits of Molo (Momeik) and Sakhan-Gyi (Mogok): U Hla Kyi, Ted Themelis, U Kyaw Thu, 303-309.
Volume 22, Number 8, October-December 2005
Gemstone resources of China: C.M. (Mimi) Ou Yang, 349-359.
Glass-filled rubies – Clarity-enhanced rubies with glass-forming additives: T. Themelis, 360-365.
Volume 22, Number 9, January-March 2006

Diamonds from the Udachnaya pipe, Yakutia: V. Rolandi, A. Brajkovic, I. Adamo, M. Landonio, 387-397.

Krüss PO11 proportion ocular and stone holder: T. Linton, R. Beattie, K. Hughes, 398-401.

Volume 22, Number 10, April-June 2006
Welcome to the Patricia Calloway memorial issue, G. Brown, H. Bracewell, B. Sneyd, 426.

Vulcanite or Gutta-Percha: That is the question: G. Brown, 460-465.

Re-surfacing a refractometer prism: T. Linton, 470.

Volume 22, Number 11, July-September 2006

Torrington and its gemstones: H. Bracewell, 479-484.


Test case for the refractometer – Olivine or sinhalite?: A. Hodgkinson, 493-495.

Volume 22, Number 12, October-December 2006

Measurement of refractive indices with the Gemmeter™: L. Cosnier, 533-538.


Another imitation elephant pearl: G. Brown, 556-557.

Volume 23, Number 1, January - March 2007

Volume 23, Number 2, April - June 2007

Volume 23, Number 3, July - September 2007

Volume 23, Number 4, October - December 2007
Magnetic susceptibility for gemstone discrimination: D.B. Hoover, B. Williams, 146-159.

LED light sources and gemmological instruments that analyse colour: T. Linton, 177-179.

Volume 23, Number 5, January - March 2008
Argyle Type 1A pink diamonds: V. Rolandi, A. Brajkovic, I. Adamo, I. Fontana, 194-203.
Spectrophotometric technique for characterising gemstone colours: G. Pearson, 204-217.
Diamond - Varying hardness directions: R. Cartier, 218.
From a Singaporean gem laboratory: Tay Thye Sun, 226-231.
AGIL Illumination loupes: T. Linton, 237.

Volume 23, Number 6, April - June 2008
Black opaque gem minerals associated with cordunum in the alluvial deposits of Thailand: S. Saminpanaya, F.L. Sutherland, 242-253.
Steller’s sea cow bone: B. Mann, G. Brown, 272-277.
Rumours and contradictions about the Spoonmaker’s diamond: M. Hatipoglu, I. Meyanci, C. Turkdofan, D. Comert, O. Temal, 278-283.
Diamond - Varying hardness directions - Erratum, 286.

Volume 23, Number 7, July - September 2008
A photo essay on Tanzanian star sunstone: G. Pearson, 311-313.
Note from the laboratory – Anglesite, an unusual collector’s gemstone: G. Choudhary, 314-315.

Volume 23, Number 8, October - December 2008
The Upper Burma ruby regulation of 1887: U Tin Hlaing, 341-348.
Account of the 1968 inspection and authentication of the Kasikci or Spoonmaker’s diamond: M. Hatipoglu, 356-358.

Volume 23, Number 9, January – March 2009
The Graham Brown Memorial Issue
List of published works, 376-384.
Some personal reminiscences, 388-396.
The many facets of Graham Brown, 397-400.
Blue fluorescence in diamonds: G. Holloway, 408-414.
Opal similarities between Andamooka and Coober Pedy, South Australia: I.J. Townsend, 415-420.
Nature and origin of the orbicular granodiorite from Boogardie Station, Western Australia: J. Bevan, A.W.R. Bevan, 421-425.
Precision of instrument readability – Your SG value may not be as good as you think it is: G. Pearson, 426-431.

Volume 23, Number 10, April – June 2009
Large Brazilian diamonds: D.B. Hoover, J. Korfunkel, 440-446.
Optical phenomena in gemstones: R. Cartier, 447-449.
Quahog pearls – Among nature’s rarest beauties: A. Matlins, 450-452.

Volume 23, Number 11, July - September 2009
Working the blue seam – The tanzanite mines of Merelani: V. Pardieu, R.W. Hughes, G.
Differing causes of colour in diamonds
Rubies and sapphires from Winza, Tanzania
The Argyle Diamond Mine in transition from
Volume 23, Number 12, October – December 2009
Argyle Type 1A brown diamonds gemmological properties, FTIR, UV-Vis, CL and ESR features: A. Brajkovic, V. Rolandi, R. Scotti, 539-550.
Differentiation of naturally coloured and artificially irradiated blue topaz specimens by their cathodoluminescence properties: Y. Song, X. Yuan, 551-558.
Zultanite, or colour-change diaspore from the Millas (Mugla) region, Turkey: M. Hatipoglu, M. Akgun, 559-563.
Diaspore, zultanite colour-change variety, gemmological properties - Editor’s addendum: G. Pearson, 564-566.
LASER inscriptions on diamonds: R. Bauer, 575-578.
Prevention of cracking in Ethiopian opal: S.V. Filin, A.I. Puzynin, 579-582.
Scarselli exhibit of naturally coloured diamonds at the American Museum of Natural History: J. Sheby, 583.
Letter to the Editor – Your SG value might be better than you think: J. Chapman, 584-585.

A4 FORMAT
Volume 24, Number 1, January – March 2010
The Argyle Diamond Mine in transition from open pit to underground extraction: G. Bosshart, J. Chapman, 4-8.
Differing causes of colour in diamonds: C. Payne, R. Bauer, 15-16.

Tanzanite - naturally heat treated?: T. Coldham, 23.
Examination results 2009: 26-27.
Volume 24, Number 2, April – June 2010
Federal President’s Report, 31.
Microstructures observed in Andamooka matrix opal: G. Pearson, 32-37.
A study of prasinite from Begogo, Madagascar: V. Bordoni, M. Boiocchi, F. Cauca, 38-40.
A chatoyant malachite: G. Choudhary, 44-45.
64th Annual Federal Conference: 49.
Volume 24, Number 3, July – September 2010
Mookaitel – A Western Australian ornamental rock: S. and V. Stocklmayer, 56-60.
Large synthetic black moissanite on the Australian market: B. Sechos, 64-65.
The world’s top summer show: 71-72.
Volume 24, Number 4, October – December 2010
Rio Tinto’s Argyle Pink Diamonds Tender Update: E. and C. Sanders, 80-84.
A greenish yellow zoisite: G. Choudhary, 90-91.
Less frequently encountered gemstones – Euclase: R. Brightman, 94-95.
Volume 24, Number 5, January – March 2011
Triphylite from Brazil – a rare colour-change gemstone: K. Schmetzer, E. Erel, 104-105.
Comparative study of different types of filled rubies: L. Jianjun, H. Wangjiao, S. Yuan, L. Han, C.Youfa, L. Huafeng, L. Ying, F. Chengxing, Y. Hong, 106-115.
Gem-Ed – GAA’s newly created educational arm: 120.

An introduction to the PEO of Gem-Ed Australia: 121.

Gem-A – GAA agreement: 122.

The Fred Storch Memorial Scholarship: 123.

Examinations results 2010: 124-125.

**Volume 24, Number 6, April – June 2011**

GAA Supporter Pins, 131-132.


ICA Congress Brazil 2011: 158.

**Volume 24, Number 7, July – September 2011**

Serpentine crystal with purple-red transmission: G. Choudhary, 164-166.


Gem-quality green and blue tourmaline from a Coolgardie pegmatite, Western Australia: F. Payette, L. Klemm, 171-175.

Less frequently encountered gemstones – Painite: R. Brightman, 176-177.

Tony Kean Award (to T. Coldham): 178.

32nd International Gemmological Conference (Switzerland): 179.

**Volume 24, Number 8, October – December 2011**


Jack’s publications 189-193.


Jack’s Opal: R. Bauer, 196.

Jack, opal specialist valuer: N. Kollias, 197.

Diamonds and opal: B.J. Morris, 198.

Tourmaline from Kangaroo Island, South Australia, in the Australian Museum collection: G. Webb, 199.


Less frequently encountered gemstones – Kyanite: R. Brightman, 202-204.

International Symposium on Jade: T.T. Sun, 205.


**Volume 24, Number 9, January – March 2012**


George Bosshart 1943-2012: 226.

Geoffrey Tombs Research Fund: 227.

Examination Results 2011: 228-229.

**Volume 24, Number 10, April – June 2012**


Natural alexandrites and chrysoberyls from Madagascar with irregular and regular growth patterns: K. Schmetzer, 243-248.

66th GAA Annual Federal conference: 249-255.

**Volume 24, Number 11, July – September 2012**

Natural pearls and cultured pearls: A basic concept and its variations: H.A. Hänni, 258-266.


Bicoloured quartz with unusual colour combination: F. Payette, 272.

Exploring surface features on Brazilian topaz crystals: A. de Goutière, 273-274.

**Volume 24, Number 12, October – December 2012**


Non-decorative jewels – with particular reference to watch jewel bearings and components: J. Warner, 294-301.