
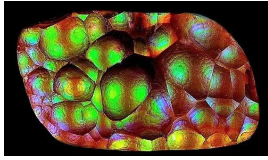








**Tea Tree Gully Gem & Mineral Club Inc. (TTGGMC)**  
**Clubrooms: Old Tea Tree Gully School, Dowding Terrace, Tea Tree Gully, SA 5091.**  
**Postal Address: Po Box 40, St Agnes, SA 5097.**  
**President:** Ian Everard. 0417 859 443 Email: [ieverard@bigpond.net.au](mailto:ieverard@bigpond.net.au)  
**Secretary:** Claudia Gill. 0419 841 473 Email: [cjrgill@adam.com.au](mailto:cjrgill@adam.com.au)  
**Treasurer:** Russell Fischer. Email: [rfischer@bigpond.net.au](mailto:rfischer@bigpond.net.au)  
**Membership Officer:** Augie Gray: 0433 571 887 Email: [teatreegullygmc@gmail.com](mailto:teatreegullygmc@gmail.com)  
**Newsletter/Web Site:** Mel Jones. 0428 395 179 Email: [teatreegullygmc@gmail.com](mailto:teatreegullygmc@gmail.com)  
**Web Address:** <https://teatreegullygemandmineralclub.com>

**June  
Edition  
2019**

## "Rockzette" Tea Tree Gully Gem & Mineral Club News

President's Report	General Interest	Club Activities / Fees						
<p>Hi All,</p> <p>Thanks to Tony Holloway's work, the Tea Tree Gully Council has approved our grant application for \$1350.00 towards our 2019 Exhibition costs.</p> <p>Also, the Tea Tree Gully Mayor is coming to officially open the Exhibition.</p> <p>More details later.</p> <p>Cheers, Ian.</p>	<p><b>Pages 6 to 10:</b> Ian's 2019 MGMC Rockarama Purchases &amp; Snapshots ...</p>  <p><b>Pages 11 &amp; 12:</b> Augie's Mineral Matters – Fire Agate ...</p>  <p><b>Pages 13 &amp; 14:</b> Chris's cabochons and polished stones...</p>  <p><b>Pages 15 to 17:</b> 'Newcastle and Rail – The Never-ending Story' ...</p>  <p><b>Page 18 &amp; 19:</b> Humour...</p>  <p><b>Page 20:</b> Members' Notices and Useful Internet Links...</p> <p style="text-align: center;">***</p>	<p><b>Meetings</b> Club meetings are held on the 1<sup>st</sup> Thursday of each month except January. Committee meetings start at 7 pm. General meetings - arrive at 7.30 pm for 8 pm start.</p> <p><b>Library</b> <b>Librarian - Augie Gray</b> There is a 2-month limit on borrowed items. When borrowing from the lending library, fill out the card at the back of the item, then place the card in the box on the shelf. When returning items, fill in the return date on the card, then place the card at the back of the item.</p> <p><b>Tuesday Faceting/Cabbing</b> Tuesdays - 10 am to 2 pm. All are welcome. Supervised by Doug Walker (7120 2221).</p> <p><b>Wednesday Silversmithing</b> Wednesdays - 7 pm to 9 pm. All are welcome. Supervised by Augie Gray (8265 4815 / 0433 571 887).</p> <p><b>Thursday Cabbing</b> Thursdays - 10 am to 2 pm. All are welcome. Supervised by Augie Gray (8265 4815 / 0433 571 887).</p> <p><b>Friday Silversmithing</b> Fridays - 9 am to 12 noon. All are welcome. Supervised by John Hill (8251 1118).</p> <p><b>Faceting/Cabbing/Silversmithing Fees:</b> A standard fee of \$3.00 per session applies – to be paid to the session supervisor.</p> <p>In the interest of providing a safe working environment, it is necessary to ensure everyone using the workshops follow the rules set out in <i>Policy No. 1 - 20/11/2006</i>.</p> <p>It is necessary that <i>Health and Safety</i> regulations are adhered to always.</p> <p>Everyone using the workshop must ensure:</p> <ul style="list-style-type: none"> <li>• that all club equipment (e.g. magnifying head pieces, faceting equipment, tools, etc.) used during the session, is cleaned, and returned to the workshop after usage.</li> <li>• that all work stations are left in a clean and tidy state;</li> <li>• that all rubbish is removed and placed in the appropriate bin;</li> <li>• and where applicable, machines are cleaned and oiled or dried.</li> </ul> <p><b>NOTE: The Tea Tree Gully Gem &amp; Mineral Club Inc. will not be held responsible or liable for any person injured while using the club machinery or equipment.</b></p> <p><b>Club Subscriptions:</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">\$25.00 Family</td> <td style="width: 50%;">\$20.00 Family Pensioner</td> </tr> <tr> <td>\$15.00 Single</td> <td>\$12.50 Single Pensioner</td> </tr> <tr> <td colspan="2">\$10.00 Joining Fee</td> </tr> </table>	\$25.00 Family	\$20.00 Family Pensioner	\$15.00 Single	\$12.50 Single Pensioner	\$10.00 Joining Fee	
\$25.00 Family	\$20.00 Family Pensioner							
\$15.00 Single	\$12.50 Single Pensioner							
\$10.00 Joining Fee								
Diary Dates / Notices								
<p style="text-align: center;"><b>Happy Birthday</b></p> <p style="text-align: center;">Members celebrating June birthdays:</p> <p>20<sup>th</sup> – Wendy Bailey. 25<sup>th</sup> – Wendy Purdie. 28<sup>th</sup> – Augie Gray.</p> <p style="text-align: center;">***</p> <p style="text-align: center;"><b>NB. TTGGMC 2019 Biennial Exhibition</b> <b>Saturday July 20<sup>th</sup> and Sunday July 21<sup>st</sup>, 2019.</b></p> <p style="text-align: center;"><b>Items wanted for Exhibition White Elephant Stall ... bring to clubrooms.</b></p> <p style="text-align: center;">***</p>								
General Interest								
<p><b>Pages 2 to 5:</b> Augie's June 2019 Agate and Mineral Selections ...</p> 								
<p>The Tea Tree Gully Gem &amp; Mineral Club Inc. is not and cannot be held responsible or liable for any personal injuries, loss or damage to property at any club activity, including, but not limited to, meetings, field trips, all crafts and club shows. An indemnity is to be signed by all participants before each and every field trip activity they attend.</p>								

**Augie's June 2019 Agate Selections – Morocco III.**



Morocco Agate III - 01.



Morocco Agate III - 05.



Morocco Agate III - 09.



Morocco Agate III - 02.



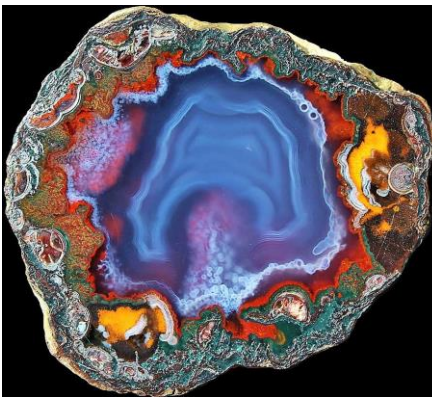
Morocco Agate III - 06.



Morocco Agate III - 10.



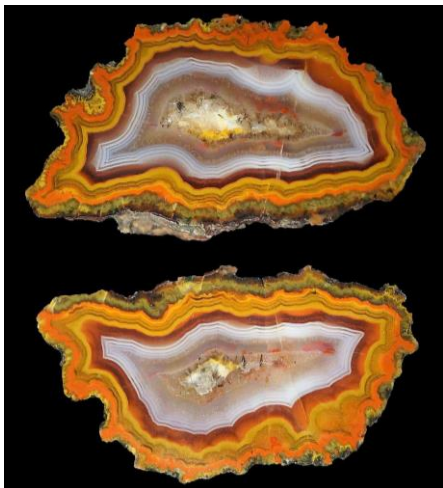
Morocco Agate III - 03.



Morocco Agate III - 07.



Morocco Agate III - 11.



Morocco Agate III - 04.



Morocco Agate III - 08.



Morocco Agate III - 12.



Morocco Agate III - 13.

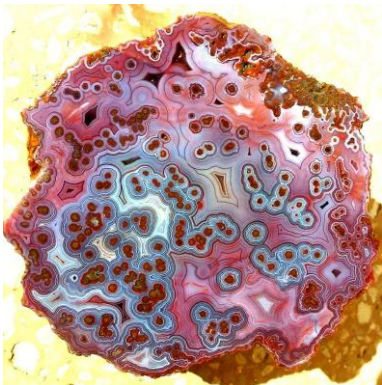
**Augie's June 2019 Agate Selections.**  
*Continued...*



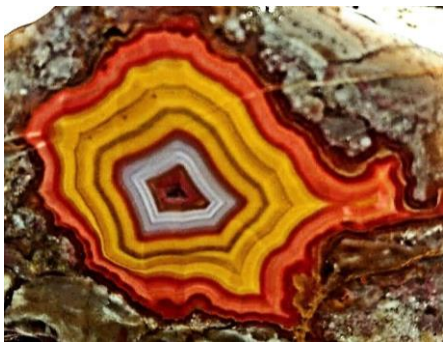
Morocco Agate III - 14.



Morocco Agate III - 15.



Morocco Agate III - 16.



Morocco Agate III - 17.



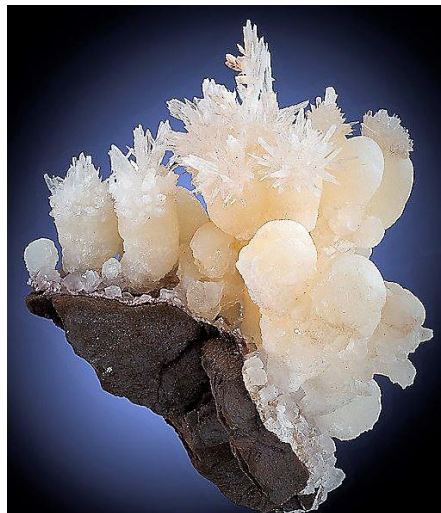
Morocco Agate III - 187.

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**Augie's June 2019 Calcite Selections.**



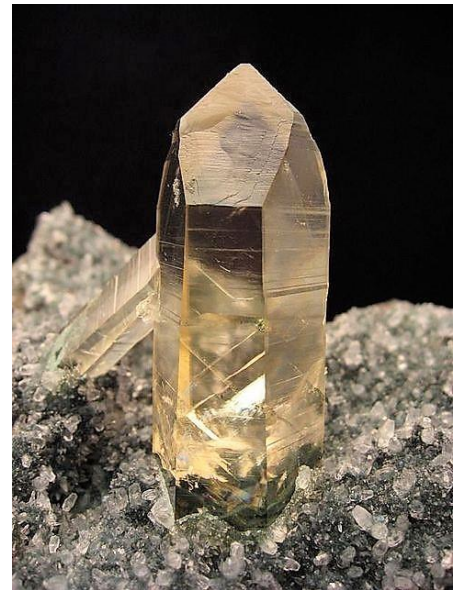
Calcite 01.



Calcite 02.



Calcite 03.



Calcite 04.



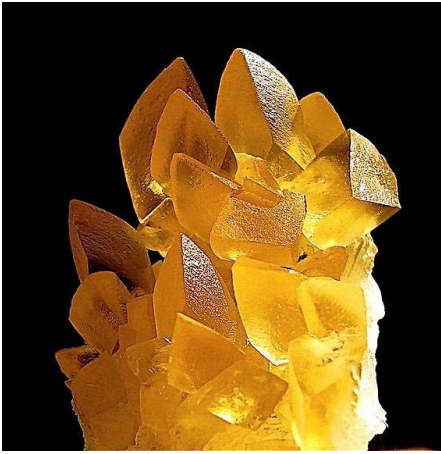
Calcite 05.



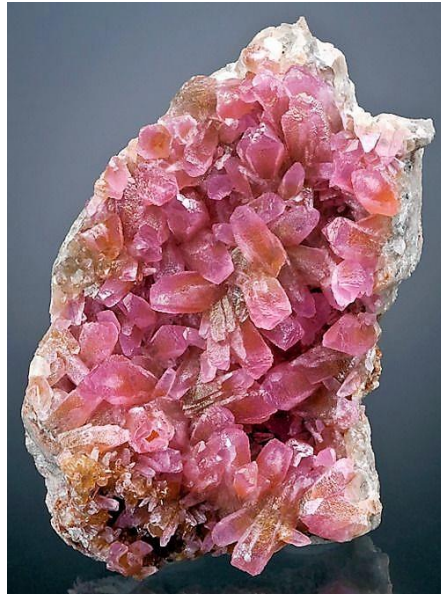
Calcite 06.

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**Augie's June 2019 Calcite Selections.**  
*Continued...*



Calcite 07.



Calcite 10.



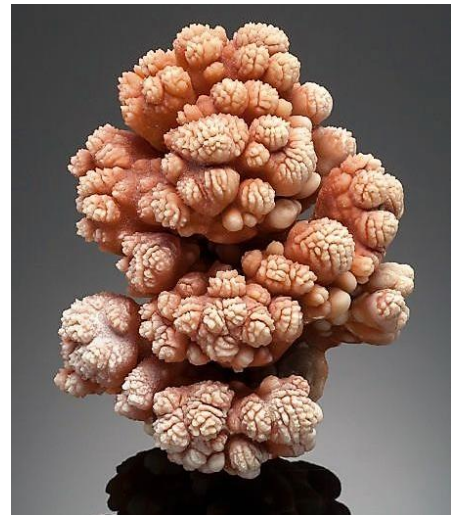
Calcite 13.



Calcite 08.



Calcite 11.



Calcite 14.



Calcite 09.



Calcite 12.



Calcite 15.

**Augie's June 2019 Calcite Selections.**  
*Continued...*



Calcite 16.



Calcite 19.



Calcite 22.



Calcite 17.



Calcite 20.



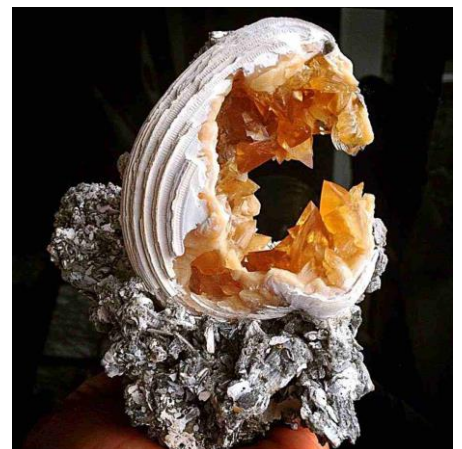
Calcite 23.



Calcite 18.



Calcite 21.



Calcite 24.

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Contributed by Ian Everard ...

**Ian's 2019 MGMC Rockarama Quartz Purchases.**



2704 Quartz on Calcite, Chihuahua, MEXICO.



2709 Quartz, Black Duck Creek, Gatton, NSW.



2716 Quartz var Smoky, North Carolina, USA.



2705 Calcite & Siderite on Quartz, Chihuahua, MEXICO.



2710 Calcite & Quartz var Amethyst, Rio Grande do Sul, BRAZIL.



2706 Quartz, Cootamundra, NSW.



2711 Quartz and Pyrite, La Peruse Gold Mine, Tabletop Area, Qld.



2717 Quartz var Amethyst Scepters, Pasto Bueno District, Ancash Dept, PERU.



2707 Quartz var Amethyst, Rio Grande do Sul, BRAZIL.



2712 Calcite on Quartz, Chihuahua, MEXICO.



2718 Chalcopyrite on Quartz, Chihuahua, MEXICO.



2708 Quartz, Cobar, NSW.



2715 Quartz, Broken Hill, NSW.

Continued next page...

Contributed by Ian Everard ...

**Ian's 2019 MGMC Rockarama Quartz Purchases.**



2719 Quartz var Smoky, Wolfram Camp, Queensland.



2720 Quartz, Black Duck Creek, Gatton, NSW.



2722 Quartz, Chihuahua, MEXICO.



2723 Chalcodony, Junction View, Gatton, Queensland.



2724 Drusy Quartz, Savage River Mines, Corinna, Tasmania.



2725 Drusy Quartz, Savage River Mines, Corinna, Tasmania.



2727 Quartz on Clinzoisite, Albaterra, Alicante province, SPAIN.



2728 Quartz var Amethyst, Kakamunurle Mine, Tamil Nadu, INDIA.



2729 Quartz var Amethyst & Calcite, Road Cutting, Khargaon District, INDIA.



2730 Quartz Geode, Tabasco, MEXICO.



2731 Quartz Geode, Tabasco, MEXICO.

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**Ian's 2019 MGMC Rockarama Snapshots taken at Palmer, SA.**



MGMC 2019 Rockarama – traders camping on Palmer Oval.



MGMC 2019 Rockarama – traders camping on Palmer Oval.



MGMC 2019 Rockarama – traders camping on Palmer Oval.

Continued next page...

Contributed by Ian Everard ...

### Ian's 2019 MGMC Rockarama Snapshots taken at Palmer, SA.



Mike and Coralie Fisher's stall.



Palmer Scout Group catering for breakfast.



Out on the field...detecting.



MGMC 2019 Rockarama – traders camping on Palmer Oval.



Getting ready for morning metal detecting competition...Sunday morning session.



Out on the field...detecting.



MGMC 2019 Rockarama – traders camping on Palmer Oval.



Kym Loechel reading the 'riot act' (rules of fair play) to metal detecting competitors.



Out on the field...detecting.



Warren McGrath...Australian Agent for Garrett Metal Detectors and accessories.



Out on the field...detecting.



MGMC Club stall...Alan Cooke with a customer.



Lined up ready to go...metal detecting competition...Sunday afternoon session.



Out on the field...detecting.



Murray Bridge Car Club.



Two juniors counting their finds.

Continued next page...



Contributed by Ian Everard ...

**Ian's 2019 MGMC Rockarama Snapshots taken at Palmer, SA.**



Metal detecting prizes waiting for new homes.



Kym Loechel getting the crowds' attention...ready for prize presentations.



Arwen Shepherd - Tailmebend - junior winner with Ian Aitken, Miners Den, Adelaide.



Tim Sachse - Littlehampton - Go Find Detector (Early Bird Raffle Prize) with Ian Aitken, Miners Den, Adelaide.



Domenic Lewis - Mannum - Junior Winner with Ian Aitken, Miners Den, Adelaide.



Arwen Shepherd - Tailmebend - junior winner with Warren McGrath, Garrett.



Paul McPherson - Redwood Park - ATX Garrett Detector winner with Warren McGrath, Garrett.



Continued next page...

Contributed by Ian Everard ...

**Ian's 2019 MGMC Rockarama Snapshots taken at Palmer, SA.**



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**Garrett Metal Detectors**

<http://www.garrettaustralia.com.au/>

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**Miners Den Adelaide**

<http://www.minersdenadelaide.com.au/>

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**Minelab**

<https://www.minelab.com/anz/>

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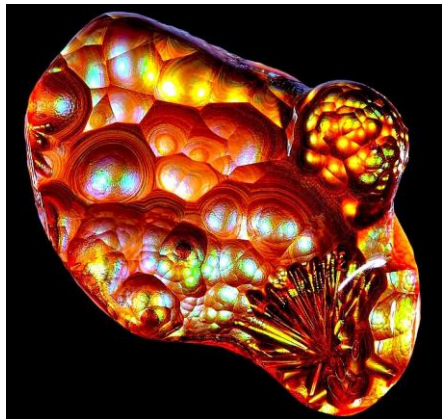
**Murraylands Gem & Mineral Club**

<https://www.murraylandsgemandmineralclub.com/>

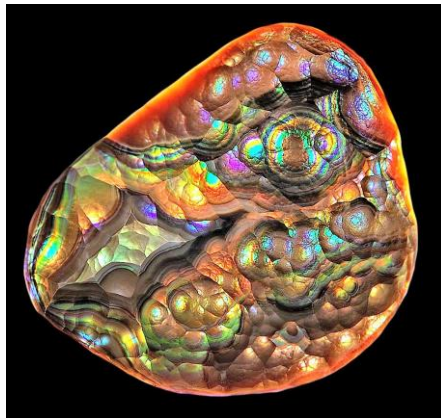
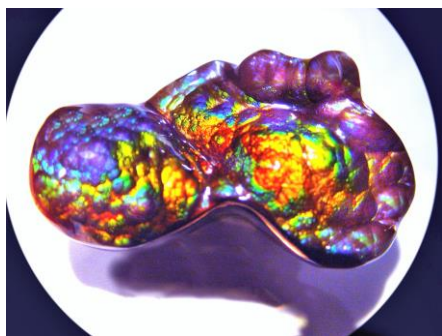
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Contributed by Augie Gray...

### Mineral Matters Fire Agate



Fire Agate is a rare variety of layered Chalcedony Quartz which exhibits a fiery iridescent effect. Iridescence is a unique optical phenomenon caused by light diffraction. As light passes through different layers of material, a prism effect causes light to separate into various spectral colours. The alternating layers of Fire Agate are composed of Limonite or Goethite iron oxide and Silica. It is the unique internally layered composition that distinguishes Fire Agate from any other variety of Agate.



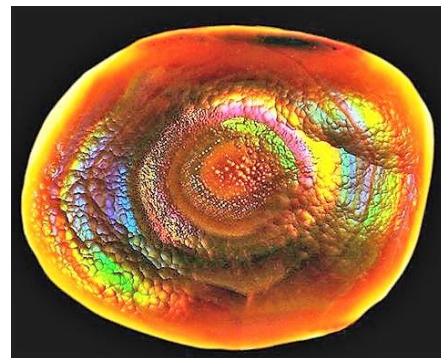
Fire Agate was formed through volcanic activity that took place in the Tertiary period, some 24 – 36 million years ago.

Fire Agates were formed when hot water, saturated with iron oxides and silica, seeped into cracks in the surrounding rock. As the solution cooled, the silica and iron oxide began to grow layers of Chalcedony, typically forming botryoidal, grape-like formations.

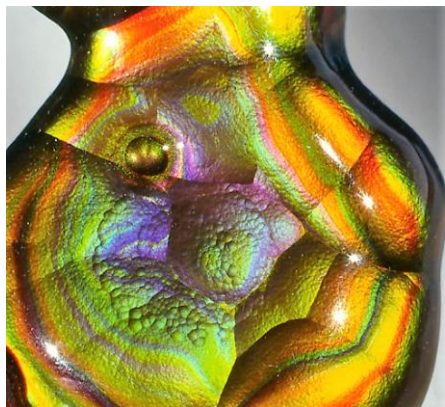


Fire Agate is found only in areas of the Southwestern United States and northern Mexico.

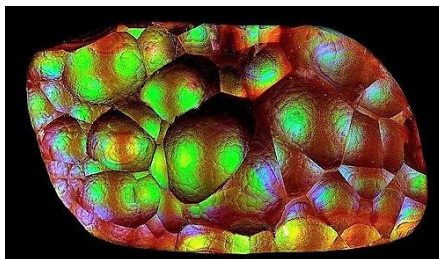
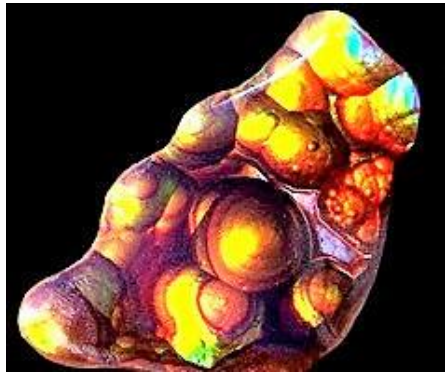
In Arizona, the primary areas are Deer Creek and Slaughter Mountain, with 4 other minor locations. In Mexico it is only found in the State of Aguascalientes.



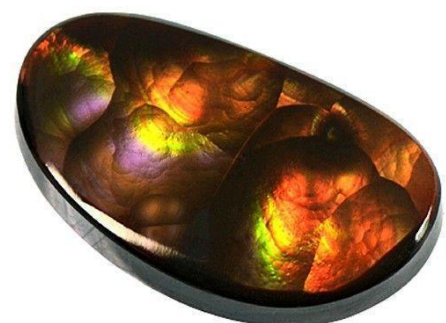
### Mineral Matters Fire Agate - *Continued...*



Because of its natural bubbly shape, Fire Agate is generally cut as freeform cabochons, following the natural shape of the stone. As the fire layer is curved, it is usually worked with a Dremel tool or similar, grinding with a very fine diamond burr to follow the fire layer, which can be only a matter of microns thick. Great care has therefore to be taken, as it is very easy to go straight through the fire layer and ruin the stone.



Fire Agate has a hardness of between 5 & 7, making it quite durable. It is therefore often set as rings, as well as pendants.

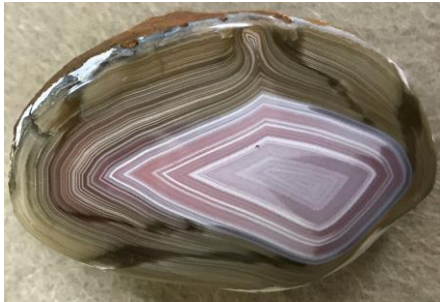


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Contributed by Chris Browne...

**Chris's Cabochons**

Chris's skill and determination has resulted in his achieving a very high polish with his cabochons. A polish, so much so, that that it has been difficult to exclude unwanted light and reflections when taking pictures of the cabs for the newsletter.



Agate, Agate Creek, Qld.



Agate, unknown location.



Petrified tree fern slice, Qld.



Agate, Kununurra, WA.



Fossilised wood, Emerald, Qld.



Fossilised Coral, Asian.



Fossilised Coral, Asian.



Boulder Opal, Yowah, Qld.



Fossilised Wood, location unknown.



Toki, Cowell Jade, SA.



Opalised Wood, Springsure, Qld.



Fossilised Wood, Jericho, Qld.



Fossilised Wood, Emerald, Qld.



Fossilised Wood, Emerald, Qld.



Northern Territory.



Fossilised Wood, Emerald, Qld.



Agate from Agate Creek, Qld.



Fossilised Wood, Chinchilla, Qld.



Fossilised Wood, Emerald, Qld.



Agate from Agate Creek, Qld.



Fossilised Wood, Emerald, Qld.



Fossilised Wood, Emerald, Qld.



Agate from Agate Creek, Qld.



Fossilised Wood, Cooper Creek, Qld.



Fossilised Wood, Emerald, Qld.



Opalised Wood, Springsure, Qld.



Fossilised Wood, Springsure-Tambo Road, Qld.



Fossilised Wood, Emerald, Qld.



Lapis Lazuli, Afghanistan.



Archaeocyatha, Flinders Ranges, SA.



Fossilised Wood, Emerald, Qld.



Fossilised Wood, Emerald, Qld.

Contributed by Mel Jones...

## ‘Newcastle and Rail – The Never-ending Story’ by Garry Reynolds Part 9B of 24...



The Newcastle City waterfront today where Aborigines once fished from canoes, convicts hewed coal and a railway system developed and disappeared over a period of 160 years. Source: *Familypedia*.

Part 9B continues from Part 9A in the May 2019 Edition of *TTGGMC Newsletter*...

### The Hydraulic Pump House – Continued...

The Carrington Hydraulic Pump House was one of these major Government investments. It was the impressive building that housed the first large-scale use of the system of using steam piston driven water pressure in Australia. Fed by coal rail wagons supplying its steam boilers, Like Moriarty’s visionary initiatives, it too incorporated designs to be expanded with what seemed to be the inevitable progress of the Newcastle coal export industry.

The renown Armstrong Hydraulic Machinery Factory in Newcastle-Upon-Tyne built a hydraulic crane system with a series of cranes mounted along the 2.5km ‘Dyke’ which was in place by the 1870s to run off the Pump House. In the 1930s, its steam engines and boilers would be replaced by electric motors.



The Hydraulic Pump House with its twin chimneys and water tower (the chimneys and tower are now demolished). Source: *Discover the Port*.

Interestingly, after the success of the hydraulic system in Newcastle, the ‘Sydney and Suburban Hydraulic Power Company’ was established in the capital in 1889. It employed a pressurised mains system to supply most of the city’s power needs from 1890 until the coming of electricity.

The system powered hydraulic engines, lifts (including passenger lifts in multi-storey buildings), wool presses, cranes and bank doors in the city and inner suburbs, from a powerhouse at Ultimo where the NSW Government Railways subsequently built a coal-fired electric power station.



An indication of the scale of the port investment in Newcastle at Hamilton Junction’s spurs to ‘The Dyke’ on the left, Newcastle Station Precinct and Nobbys on the right, and the Great Northern Line to Broadmeadow at the bottom. In the centre is Carrington Hydraulic Pump House in 1904. Source: *ABC*.

Meanwhile, in the 1870s, a branch line was constructed linking the Great Northern Line to the new port facilities as well as the bridge linking the island to the mainland.

It is no surprise that there is a similarity in the look of the Pump House with the Customs House in the heart of Newcastle as both were built by the same Sydney firm, Jennings and Co of Sydney.

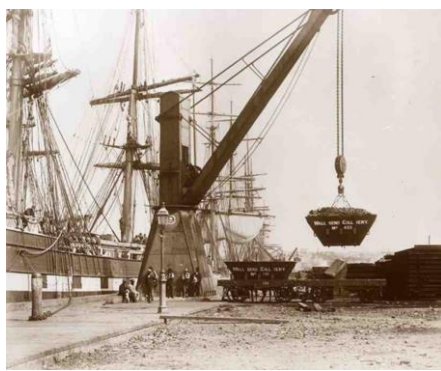
Of course, not only was a good supply of coal needed to power the steam boilers but a reliable supply of fresh, clean water. An elevated reservoir was constructed at Hamilton Junction to draw supplies from a nearby swamp. It then required filtering prior to entering to the Hydraulic Pump Station’s engine house.

The hydraulic circuit from the Pump Station to ‘The Dyke’ was a closed system forcing pressurised water to each crane in pipes suspended beneath the timber wharf, and then returning it to the Pump House.

Initially, in 1878, the Pump House was designed to supply energy to four static cranes located on ‘The Dyke’ wharves, each lifting 18 tons of coal.



A coal hopper being lifted from the wagon frame by a hydraulic crane to swing over the ship for the floor release to be opened and coal tumble into the hold. There was an energy mix of steam power for the rail locomotives and Hydraulic Pump House, horsepower for shunting wagons, and gas power for wharf illumination. Source: *NIHA*.



Wharf labourers pose for their photo as hydraulic crane No.9 at ‘The Dyke’ lifts the Wallsend Colliery hopper off its wagon cradle and prepares to swing it over the vessel’s hold with a ship’s officer overseeing operations. Source: *University of Newcastle*.

By 1877, the first 10 wharves were constructed on ‘The Dyke’. Two years later, the prominent ‘Town and Country Journal’ waxed lyrical in March 1879 extolling:

*“These beautiful pieces of mechanism...represent the last achievements of mechanical science in hydraulic machinery. They are all worked by hydraulic pressure produced by one pair of engines, and they could be manipulated by a child”.*

So successful was the new technology after a year of opening, two more boilers and another engine were installed to feed more cranes lifting to 25 tons.

By the 1890s, 12 cranes were operating, and electric illumination enabled an increase in throughput by night loading. However, the two original Pump House steam engines were severely overtaxed, so a compound steam pumping engine was added. An additional boiler room was also constructed on the Eastern side of the building (retaining symmetry with the Western side which had been provided for in the original visionary plan) and supplied with four boilers.

Despite the severe economic depression of the 1890s, between 1897 and 1907 the Newcastle coal trade increased by 80 per cent. (Newcastle Herald, 3 May 2013).



A variety of coal wagons from different collieries await loading at ‘The Dyke’ in 1891. Source: *Newcastle Herald*.

The coal industry was powering along, so by the 20th century, rail and port-side loading capacity had to be increased. Hydraulic power was now also being fed to seven moveable hydraulic cranes on rails, adding more flexibility.

Then in 1914 hydraulic capstans were introduced to replace the horses used to move coal wagons to and from the cranes.

With the onset of the First World War, the whole system coupled with the rail network, was running flat out. Soon, in 1915, the Newcastle steelworks would be launched, adding more pressure on the struggling infrastructure.

To cope with increasing demands during World War 1, electricity was gradually introduced to replace hydraulic power on the cranes. In 1916-1917, six large electric cranes were installed, supplied with power from the Zaara Street Power Station. *Continued next page...*

**'Newcastle and Rail – The Never-ending Story' Continued...**



The sprawling network of sidings with a shunting steam tank locomotive and guard's van at 'The Dyke'. Source: Flickr.

Newcastle and its rail system were now at the core of Australia's war effort as supplies of many armaments and manufactured products from overseas suppliers were cut off with scarce shipping directed to supplying the fighting front or being sunk in the process.



Zaara St coal-fired Power Station in the heart of Newcastle adjacent to the East End Marshalling Yard. Source: Flickr.

However, during this period of emerging technology, to succeed the hydraulic-crane system the NSW Government made a disastrous decision to adopt a piece of new rail-based coal-loading technology.

The McMyler Hoist was a coal loader used between 1908 and 1916 and dismantled in 1933. It was not suited to the wagons used in the Port of Newcastle, and also had the effect of damaging the coal.

It has been said that it has been one of the most expensive mistakes of the New South Wales Government. Four were bought, but only one installed. It was such a failure, that despite the hoists being an expensive purchase (many millions of dollars in today's terms) the remaining three were never used!



The disastrous McMyler Coal Hoist being launched at 'The Dyke' in 1908 with great fanfare and expectations soon to be shattered with much embarrassment to the NSW Government. Source: Newcastle Herald.

Although the hydraulic age was over, the Pump Station continued to produce hydraulic power until the 1960s. Not unexpectedly, this antiquated and dilapidated loading system came under attack in the 1950s and 1960s.



The McMyler Coal Hoist with its railway arrangements. Source: University of Newcastle.

Although the hydraulic age was over, the Pump Station continued to produce hydraulic power until the 1960s. Not unexpectedly, this antiquated and dilapidated loading system came under attack in the 1950s and 1960s.

The technological marvel of the 19th century had now become according to the editor of the journal - 'Australian Coal, Shipping, Steel and the Harbour':

*'There is not a port in Australia or elsewhere in the world, which could possibly present such an example of ineptitude and neglect'.*

Five of the older hydraulic cranes were demolished in 1956, and the last of the movable cranes was removed in 1964. In 1967, their role was taken up by the Basin Coal Loader, a belt system which brought an end to the long era of the use of cranes hoisting rail hoppers for coal loading at Newcastle.

Today, high-speed belt conveyors, giant reclaimers and stackers and ship loaders with a capacity of up to 10,500 tonnes per hour coupled with a dedicated coal rail network ensure that Newcastle remains the world's leading coal export port but more of that in the future.

**The Southern Shore of the Harbour is remodelled**

Winding the clock back, as 'The Dyke' at Carrington evolved with its sprawling railway network serving the plethora of hydraulic cranes on the north side of the Harbour, Engineer Moriarty had not overlooked the constrained Southern Foreshore between Honeysuckle and what became the large East End railyard leading to Nobbys. This had always been part 2 of his integrated master plan.

From the earliest days of settlement with convict labour, reclamation of the swampy Southern edge of the Harbour had been occurring. However, it tended to involve ad-hoc infill and construction of seawalls narrowly focused on specific private and government projects.

For some years, Queen's Wharf actually lay out from the shore. This created a series of lagoons which were filled in 1865 with sand dug from the nearby sandhills that extended from Newcastle Beach to the Harbour.

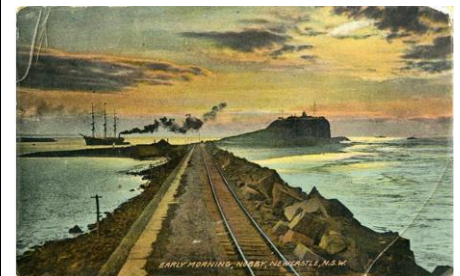
During this period, the Queen's Wharf berthing channel was dredged so that ships up to 1,000 tons could be loaded. Still, delays to loading caused by the overtaxed shipping facilities in Newcastle led many overseas shipowners to opt for a quicker and cheaper option. They berthed their ships in Sydney and had 60 miler steam colliers shuttle Newcastle coal down the coast to them!

These colliers enjoyed the advantage of having one steam crane at Queens Wharf allocated for their priority use.

The second part of Moriarty's plan, focused on the Southern Harbour foreshore, involved the construction of a long stone 'training wall'. His aim was to create a smooth even curve to direct the tidal flow to help scour out the shipping access channel.

The design was meticulous, and Moriarty was insistent that some existing sea walls that interrupted the smooth curve had to go – and they did.

In his inimitable style that appealed to the politicians and coal and shipping company accountants, Moriarty ensured that the training wall was constructed cheaply from rock ballast brought in on empty ships that were awaiting loads of coal. There was a hiccup, when vessels from China, Indonesia, Japan, Madagascar, New Guinea, the Philippines and the Seychelles were refused for a time permission to dump ballast on the edge of the Harbour because of a health scare. Captains were ordered to dump their ballast at sea before entering the Port of Newcastle.



A colorised postcard of a sailing ship being guided in through the Newcastle Port entrance by a steam tug. Source: Coal River.

Moriarty's stand-alone wall was initially erected out in the stream of the Harbour parallel to the Southern Shore. It was then backfilled with more ballast, reclaiming a long stretch of new land for wharfage and industry as interim relief of the pressure building from a growing coal export industry.

The new wall, in part, created the new "Queen's Wharf" in 1858. It would run between the AA Company's railway coal loading staithe on the edge of the CBD to the West right through to Macquarie's Pier (the breakwater to Nobbys) to the East.

Within 5 years, Queens Wharf stretched 600 metres, served by a series of steam cranes. Partly due to inefficiency in the operation of the staithe, the Australian Coal and Copper Company which serviced the Burwood Estate to the South, dissolved in 1864, and the Government forcibly took possession of the land.

*Continued next page ...*



**'Newcastle and Rail – The Never-ending Story' Continued...**

Four more Government coal loading staithes with rail connections were built in their place on the site in 1870, but these were again criticised for their ineffectiveness.

It was a relief for the rail, coal and shipping industries when all coal loading operations could be moved over to 'The Dyke' at Carrington towards the end of the 19th century.

In 1890, the Government staithes on the Southern Shore site were demolished, to be replaced by berths for general cargo shipping to serve the burgeoning population. There was also room for the increasing numbers of tugs to guide more ships into and out of wharf areas and the tricky Port channels subject to silting as well as the treacherous Port entrance.

As a third stage in Moriarty's grand plan, construction of an extension to the Harbour Entrance's Southern Breakwater beyond Nobbys was commenced in 1875. It was extended a few times with the assistance of the rail connection along the Macquarie's Pier before being finished in 1915. The line carried rocks up to 30 tons to be placed as reinforcement in the breakwater.



Girls on Macquarie Northern Entrance Breakwater being extended c1900 waving to a passing sailing ship being led by dual steam tugs. The lack of buffers preventing a drop off into the ocean was unnerving! Source: Newcastle Herald.

Meanwhile, as part of Stage 3, on the Northern side, the construction of a 530-metre breakwater was undertaken between 1898 and 1912 using a railway extension and rock brought from a quarry at Waratah.

In the ultimate in recycling, even the rubble of the decimated buildings and streets in the massive 1906 San Francisco earthquake across the Pacific arrived as free ballast in ships seeking a coal cargo in Newcastle was dumped on the Northern breakwater.

**More Next Month...**

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Contributed by Doug Walker

**\*Neologism Awards – Part 1\***

*\*Once again, The Washington Post has published the winning submissions to its yearly contest, in which readers are asked to supply alternative meanings for common words. The winners are: \**

1. **Coffee** (N.), the person upon whom one coughs.
2. **Flabbergasted** (adj.), appalled over how much weight you have gained.
3. **Abdicate** (V.), to give up all hope of ever having a flat stomach.
4. **Esplanade** (V.), to attempt an explanation while drunk.
5. **Willy-nilly** (Adj.), impotent.
6. **Negligent** (Adj.), describes a condition in which you absentmindedly answer the door in your nightgown.
7. **Lymph** (V.), to walk with a lisp.
8. **Gargoyle** (N.), olive-flavoured mouthwash.
9. **Flatulence** (N.) emergency vehicle that picks you up after you are run over by a steamroller.
10. **Balderdash** (N.), a rapidly receding hairline.
11. **Testicle** (N.), a humorous question on an exam.
12. **Rectitude** (N.), the formal, dignified bearing adopted by proctologists.
13. **Pokemon** (N), a Rastafarian proctologist.
14. **Oyster** (N.), a person who sprinkles his conversation with Yiddishisms.
15. **Frisbeetarianism** (N.), (back by popular demand): The belief that, when you die, your Soul flies up onto the roof and gets stuck there.
16. **Circumvent** (N.), an opening in the front of boxer shorts worn by Jewish men.



Man, runover by a steam roller.

\*\*\*

Contributed by Doug Walker

**\*Neologism Awards – Part 2\***

*\*The Washington Post's Style Invitational also asked readers to take any word from the dictionary, alter it by adding, subtracting, or changing one letter, and supply a new definition. Here are this year's winners: \**

1. **Bozone** (N.): The substance surrounding stupid people that stops bright ideas from penetrating. The bozone layer, unfortunately, shows little sign of breaking down in the near future.
2. **Foreplay** (V): Any misrepresentation about yourself for the purpose of getting laid.
3. **Cashtration** (N.): The act of buying a house, which renders the subject financially impotent for an indefinite period.
4. **Giraffiti** (N): Vandalism spray-painted very, very high.
5. **Sarchasm** (N): The gulf between the author of sarcastic wit and the person who doesn't get it.
6. **Inoculatte** (V): To take coffee intravenously when you are running late.
7. **Hipatitis** (N): Terminal coolness.
8. **Osteopornosis** (N): A degenerate disease. (This one got extra credit.)
9. **Karmageddon** (N): It's like, when everybody is sending off all these really bad vibes, right? And then, like the Earth explodes, and it's like a serious bummer.
10. **Decafalon** (N.): The gruelling event of getting through the day consuming only things that are good for you.
11. **Glibido** (V): All talk and no action.
12. **Dopeler effect** (N): The tendency of stupid ideas to seem smarter when they come at you rapidly.
13. **Arachnoleptic fit** (N.): The frantic dance performed just after you've accidentally walked through a spider web.
14. **Beelzebug** (N.): Satan in the form of a mosquito that gets into your bedroom at three in the morning and cannot be cast out.
15. **Caterpallor** (N.): The color you turn after finding half a grub in the fruit you're eating.
16. **Ignoranus** (N): A person who's both stupid and an asshole.

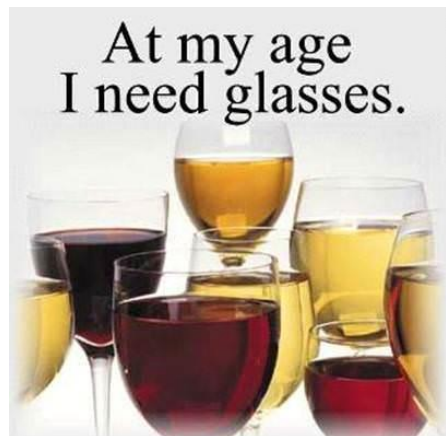
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The number plate says it all... 'clumsy is as clumsy does!'

\*\*\*

Contributed by Doug walker...



**The secret of enjoying a good wine:**

1. Open the bottle to allow it to breathe.

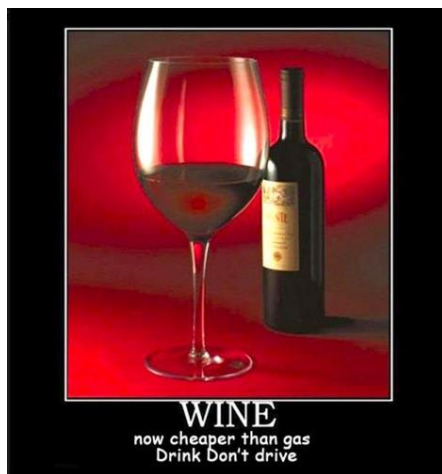


2. If it does not look like it's breathing, give it mouth-to-mouth.

**WINE PAIRING IN THE STONE AGE**



"Simple rule of thumb; if it tries to eat us, serve with red. If it runs away from us, serve with white."



A good man can make you feel sexy, strong, and able to take on the whole world, oh wait, sorry...that's wine, wine does that.



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"I LIMIT MYSELF TO ONE GLASS OF WINE A DAY."



\*\*\*

Contributed by Allan Rudd...



A man in Newcastle walked into the produce section of his local supermarket and asked to buy half a head of lettuce. The boy working in that department told him that they only sold whole heads of lettuce. The man was insistent that the boy ask the manager about the matter.

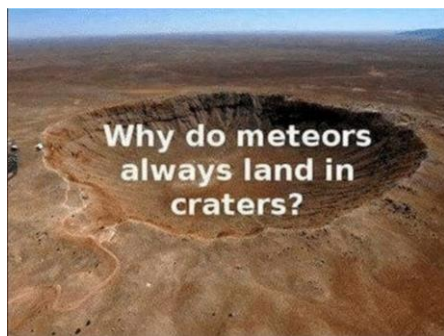
Walking into the back room, the boy said to the manager, "Some old bastard outside wants to buy half a head of lettuce." As he finished his sentence, he turned around to find that the man had followed and was standing right behind him, so the boy quickly added, "and this gentleman kindly offered to buy the other half." The manager approved the deal and the man went on his way.

Later, the manager said to the boy....."I was impressed with the way you got yourself out of that situation earlier, we like people who can think on their feet here, where are you from son?" "New Zealand, sir," the boy replied.

"Why did you leave New Zealand?" the manager asked. The boy said, "Sir, there's nothing but prostitutes and rugby players there." "Is that right?" replied the manager, "My wife is from New Zealand!" "Really?" replied the boy, "Who did she play for?"

\*\*\*

Contributed by Augie Gray...



Contributed by Doug Walker...

**A Scotsman and his wife walked past a swanky new restaurant.**

**"Did you smell that food?" she asked. "It's smells absolutely incredible!"**

**Being a 'kind-hearted Scotsman', he thought, "What the hell..., I'll treat her!"**

**So, they walked past it again!**

\*\*\*

Contributed by Doug Walker...



Now, as if everything else wasn't bad enough, we find out that beer isn't good for us; **'Beer contains female hormones! Yes, that's right, FEMALE hormones!'**

Last month, Montreal University scientists released the results of a recent analysis that revealed the presence of female hormones in beer.

(A) The theory is that Beer contains female hormones (hops contain Phytoestrogens) and that by drinking enough beer, men turn into women.

(B) To test the theory, 100 men each drank 8 large drafts of beer within a one (1) hour period.

(C) It was then observed that 100% of the test subjects, yes, 100% of all these men:

- 1) **Argued** over nothing.
- 2) **Refused** to apologize when obviously wrong.
- 3) **Gained** weight.
- 4) **Talked** excessively without making sense.
- 5) **Became** overly emotional
- 6) **Couldn't** drive.
- 7) **Failed** to think rationally, and
- 8) **Had** to sit down while urinating.

No further testing was considered necessary!

\*\*\*

Contributed by Augie Gray...



A London lawyer runs a stop sign and gets pulled over by an Irish Policeman.

He thinks that he is smarter than the cop because he is a lawyer, from London, and is certain that he has a better education than any Paddy cop.

He decides to prove this to himself and have some fun at the Policeman's expense!

Irish Cop says, 'License and registration, please.'

London Lawyer says, 'What for?'

Irish Cop replies, 'You didn't come to a complete stop at the Stop sign.'

London Lawyer says, 'I slowed down, and no one was coming.'

Irish Cop says, 'You still didn't come to a complete stop.'

License And registration, please.'

London Lawyer says, 'What's the difference?'

Irish Cop says, "The difference is, you have to come to complete stop, that's the law. License and registration, please!"

London Lawyer says, 'If you can show me the legal difference between 'slow down' and 'stop', I'll give you my license and registration and you give me the ticket. If not, you let me go and don't give me the ticket.'

Irish Cop says, 'Sounds fair. Exit your vehicle, sir.'

The London lawyer exits his vehicle. The Irish Cop takes out his baton and starts beating the hell out of the lawyer with it and says, 'Do you want me to stop, or just slow down?'

\*\*\*

Contributed by Doug Walker...

### Some Old Expressions from the 50s

A fun read for the morning. Enjoy your trip down "memory lane".

The other day a not so elderly (I say 75) lady said something to her son about driving a Jalopy; and he looked at her quizzically and said, "What the heck is a Jalopy?" He had never heard of the word jalopy! She knew she was old. But not that old.

Well, I hope you are Hunky Dory after you read this and chuckle.

About a month ago, I illuminated some old expressions that have become obsolete because of the inexorable march of technology. These phrases included: 'Don't touch that dial', 'Carbon copy', 'You sound like a broken record', and 'Hung out to dry'.

Back in the olden days we had a lot of moxie. We'd put on our best bib and tucker, to straighten up and fly right.

Heavens to Betsy! Gee whillikers! Jumping Jehoshaphat! Holy moley!

We were in like Flynn and living the life of Riley; and even a regular guy couldn't accuse us of being a knucklehead, a nincompoop or a pill. Not for all the tea in China!

Back in the olden days, life used to be swell, but when's the last time anything was swell? Swell has gone the way of beehives, pageboys and the D.A.; of spats, knickers, fedoras, poodle skirts, saddle shoes, and pedal pushers.

Oh, my aching back! Kilroy was here, but he isn't anymore.

We wake up from what surely has been just a short nap, and before we can say, 'Well, I'll be a monkey's uncle!' Or, 'This is a fine kettle of fish!' We discover that the words we grew up with, the words that seemed omnipresent, as oxygen, have vanished with scarcely a notice from our tongues and our pens and our keyboards.

Poof go the words of our youth, the words we've left behind. We blink, and they're gone. Where have all those great phrases gone?

Long gone: 'Pshaw'. 'The milkman did it'. 'Hey!' 'It's your nickel.' 'Don't forget to pull the chain.' 'Knee high to a grasshopper'. 'Well, Fiddlesticks!' 'Going like sixty'. 'I'll see you in the funny papers.' 'Don't take any wooden nickels.' 'Wake up and smell the roses.'

It turns out there are more of these lost words and expressions than Carter has liver pills. This can be disturbing stuff! (Carter's Little Liver Pills are gone too!)



We of a certain age have been blessed to live in changeable times. For a child each new word is like a shiny toy, a toy that has no age. We at the other end of the chronological arc have the advantage of remembering there are words that once did not exist and there were words that once strutted their hour upon the earthly stage and now are heard no more, except in our collective memory. It's one of the greatest advantages of aging.

Leaves us to wonder where Superman will find a phone booth...

See ya later, alligator! Okidoki.




You'll notice they left out "Monkey Business"!!!




\*\*\*


**Tea Tree Gully Gem and Mineral Club Inc.**


**2019 Biennial Exhibition**

Tea Tree Gully Primary School Memorial Drive, Tea Tree Gully  
 Saturday 20<sup>th</sup> July - 9am to 5pm  
 Sunday 21<sup>st</sup> July - 10am to 4pm

**Demonstrations**  
 Bone Carving  
 Gemstone Identification  
 Light Meals and Refreshments  
 Raffle

**Sales**  
 Hand Crafted Jewellery  
 Mineral Specimens  
 Fossils  
 Gemstone Rough  
 Cut and Polished Gems  
 Tools and Equipment  
 Books

**Admission Prices**  
 All entry - \$5.00  
 Children under 12 with an Adult are Free

**For more information contact:**  
 Ian Everard 0417 859 443

We gratefully acknowledge Tea Tree Gully Council for its generosity in sponsoring this event.

**PLEASE NOTE: To preserve the floor, NO STILETTOS or STUDDED FOOTWEAR.**

\*\*\*

**\*\* URGENT \*\***

**Items wanted for Exhibition White Elephant Stall ... bring to clubrooms.**

\*\*\*

*Contributed by Wendy Purdie...*



**Tony Forsyth**  
15 May at 08:22

Passing on this message from Brian Boyle, manager at Gemcuts. Brian is now manufacturing Gemmasta, quality Australian made lapidary machines. Getting back into production in their new home in Ballina NSW. This is the first batch of machines back from powder coating and ready for assembly.



Click/tap on the following hyperlink to access the Gemcuts website: <https://www.gemcuts.com.au/>

\*\*\*

**Mineral boxes and flats for sale**

Mineral box sizes

Sold in bundles of (10) or 100

3.5 x 3.3cm.....	(\$1.50)	\$12.00
4 x 4cm.....	(\$1.50)	\$13.00
5 x 5.2cm.....	(\$2.00)	\$15.00
6.2 x 7.5cm.....	(\$2.50)	\$18.00
7 x 7cm.....	(\$2.50)	\$19.00
7 x 9.5cm.....	(\$2.50)	\$20.00
8.5 x 9.5cm.....	(\$3.00)	\$22.00
9.5 x 9.5cm.....	(\$3.50)	\$23.00
13 x 9.5cm.....	(\$4.00)	\$25.00
13 x 12.5cm.....	(\$4.50)	\$30-00

Flats sizes

395 x 265 x 50mm....	\$2.50
400 x 270 x 75mm....	\$3.50 <b>NEW SIZE</b>
398 x 290 x 98mm....	\$4.00

**Greg Vort-Ronald**  
 0413796279 or [luv2paint@iprimus.com.au](mailto:luv2paint@iprimus.com.au)  
 all boxes and flats are folded together, no staples required  
 (Prices subject to change)

\*\*\*

Useful Internet Links

- 2019 Australian Gem & Mineral Calendar: [Click here...](#)
- Adelaide Gem and Mineral Club: [Click here...](#)
- AFLACA-GMCASA: [Click here...](#)
- Australian Federation of Lapidary and Allied Crafts Association (AFLACA): [Click here...](#)
- Australian Lapidary Club Directory: [Click here...](#)
- Australian Lapidary Forum: [Click here...](#)
- Broken Hill Mineral Club: [Click here...](#)
- Enfield Gem and Mineral Club Inc: [Click here...](#)
- Flinders Gem, Geology, and Mineral Club Inc: [Click here...](#)
- Gem and Mineral Clubs Association of South Australia: [Click here...](#)
- Gemcuts: <https://www.gemcuts.com.au/>
- Lapidary World: [Click here...](#)
- Metal Detectors - Garrett Australia: [Click here...](#)
- Metal Detectors - Miners Den Adelaide: [Click here...](#)
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- Mineralogical Society of SA Inc: [Click here...](#)
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