

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 Secretary: Claudia Gill. 0419 841 473 Email: cjjrgill@adam.com.au Treasurer: Russell Fischer. Email: rfischer@bigpond.net.au Membership Officer: Augie Gray: 0433 571 887 Email: teatreegullygmc@gmail.com Newsletter/Web Site: Mel Jones. 0428 395 179 Email: teatreegullygmc@gmail.com

Web Address: https://teatreegullygemandmineralclub.com

"Rockzette" Tea Tree Gully Gem & Mineral Club News

President's Report	General Interest	Club Activities / Fees
Hi All, Less than four months to our Exhibition. Cheers, Ian.	Pages 7 to 9: Ian's Gemkhana and Caves Safari, VIC & NSW	Meetings Club meetings are held on the 1 st Thursday of each month except January. Committee meetings start at 7 pm.
Diary Dates / Notices		General meetings - arrive at 7.30 pm for 8 pm start.
Happy Birthday Members celebrating April birthdays: 10 th – Pat Zoyke. 24 th – Steve Wood. 17 th – Trevor Jessop. 27 th – Candice Bowey. 21 st – Ian Everard. 29 th – Gerri Cook. *** NB. TTGGMC 2019 Biennial Exhibition Saturday July 20 th and Sunday July 21 st , 2019. ***	Page 10: DIY – Plastic Milk Carton Projects	Library Librarian - Augie Gray 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. <u>Tuesday Faceting/Cabbing</u> Tuesdays - 10 am to 2 pm. All are welcome. Supervised by Doug Walker (7120 2221).
Speaker at the May 2019 Meeting Don McColl will be speaking on 'The Green	Pages 11 to 14: Members Out and About - Claudia and Graham's Safari to North-Western Europe	Wednesday Silversmithing Wednesdays - 7 pm to 9 pm. All are welcome. Supervised by Augie Gray
Rocks from Browns'. *** General Interest		(8265 4815 / 0433 571 887). <u>Thursday Cabbing</u> Thursdays - 10 am to 2 pm. All are welcome. Supervised by Augie Gray (8265 4815 / 0433 571 887).
Pages 2 to 4: Augie's April 2019 Agate and Mineral Selections	Pages 15 to 18: 'Newcastle and Rail – The Never-ending Story' Part 8	Friday Silversmithing Fridays - 9 am to 12 noon. All are welcome. Supervised by John Hill (8251 1118). Faceting/Cabbing/Silversmithing Fees: A standard fee of \$3.00 per session applies – to be paid to the session supervisor. In the interest of providing a safe working environment, it is necessary to ensure everyone
Page 5: Ian's April 2019 Collection Selections		using the workshops follow the rules set out in <i>Policy No. 1 - 20/11/2006.</i> It is necessary that <i>Health and Safety</i> regulations <u>are</u> adhered to always.
Page 6: Mineral Matters'Maw Sit Sit'	Pages 19 to 20: Humour and Members Notice Board ***	 Everyone using the workshop must ensure: 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. that all work stations are left in a clean and tidy state; that all rubbish is removed and placed in the appropriate bin; and where applicable, machines are cleaned and oiled or dried.
The Tea Tree Gully Gem & 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.		NOTE: The Tee Tree Gully Gem & Mineral Club Inc. will not be held responsible or liable for any person injured while using the club machinery or equipment. Club Subscriptions: \$25.00 Family \$20.00 Family Pensioner \$15.00 Single \$12.50 Single Pensioner \$10.00 Joining Fee
Tea Tree Gully Gem and Mineral Club Incorporated, Old Tea Tree Gully School, Dowding Terrace, Tea Tree Gully, South Australia, 5091.		

April

Edition

2019

Augie's April 2019 Agate and Mineral Selections – Page 1 of 3.

Augie's April 2019 Agate Selections – Morocco 1.



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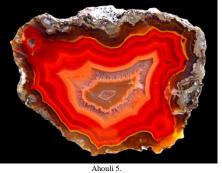




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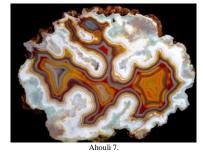


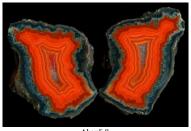
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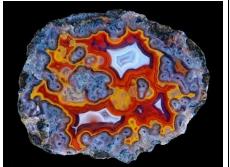
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Ahouli 8.



Ahouli 9.



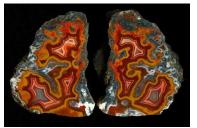




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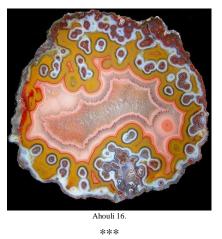
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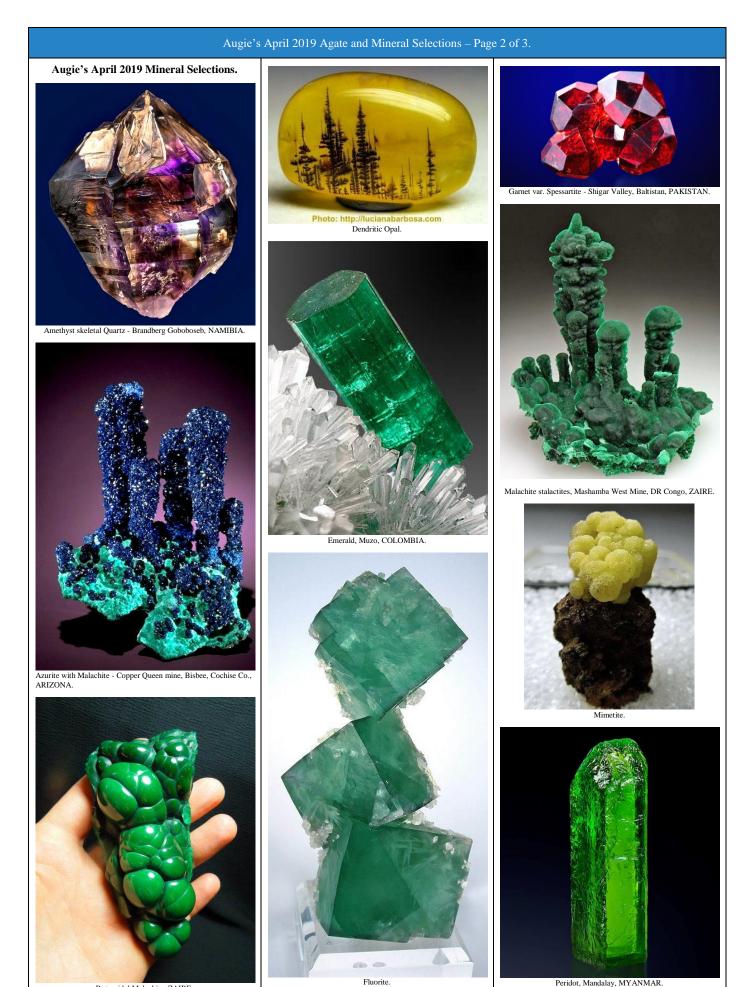


Ahouli 14.



Ahouli 15.





Peridot, Mandalay, MYANMAR. Continued next page ...

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Botryoidal Malachite, ZAIRE.

Page 3.

Augie's April 2019 Agate and Mineral Selections – Page 3 of 3.

Augie's April 2019 Mineral Selections. Continued...



Pyromorphite with Cerussite, Daoping Mine, CHINA.









Smoky Quartz Sceptre, Namaqualand, SOUTH AFRICA.



Tourmaline, Sapo Mine, Ferruginha, Conselheiro Pena, Doce Valley, Minas Gerais, BRAZIL.



Torbernite, Margabal, Aveyron, FRANCE.

Mel's April 2019 Facebook Sourced **Mineral Selections**



Bright and shiny natural Rainbow Fluorite Slab from Brazil. Source: Amazing Geologist. Photo: Wolfoot And Bearpaw.



Spiky Heliodor crystals from Ukraine. Source: Amazing Geologist. Photo: Golden Hour Minerals.



Azurite with balls of green Malachite from Morenci Mine, Greenlee Co., Arizona, USA. Source: Amazing Geologist. Photo: Wilensky Fine Minerals.

Ian's April 2019 Collection Selections - Page 1 of 1.

Contributed by Ian Everard ...

Ian's April 2019 Collection Selections.



2675 Quartz and Ilvaite, Tuscany, ITALY.



2676 Chalcopyrite on Quartz, La Palomo Mine, Huancavelica Dept, PERU.



2677 Realgar & Chalcopyrite on Quartz, La Palomo Mine, Huancavelica Dept, PERU.



2678 Realgar & Chalcopyrite on Quartz, La Palomo Mine, Huancavelica Dept, PERU.



2679 Quartz on Sphalerite and Pyrrhotite, Trepca, YUGOSLAVIA.





2682 Calcite on Quartz, Renison Bell Mine, TASMANIA.



2684 Quartz, Victoria Tower Mine, Wadnaminga, South Australia



2685 Quartz, Victoria Tower Mine, Wadnaminga, South Austr



1416 Quartz Geode with Calcite, MEXICO.



1417 Quartz Geode with Calcite, MEXICO.



1421 Amethyst Geode and Calcite, MEXICO. ***

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Page 5.

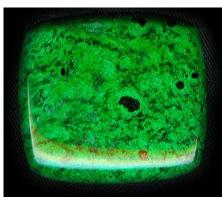
Mineral Matters-Page 1 of 1.

Contributed by Augie Gray... Maw Sit Sit

It's No Joke! Yep, that's really the name of a gemstone, and an exceptionally beautiful one, at that.



One of the newer, and more unusual stones, Maw Sit Sit was first identified by the late eminent Swiss gemologist Eduard Gubelin as recently as 1963. It is named after the village where it was discovered, in Myitkyina-Mogaung District, Kachin State, northern Myanmar (Burma), in the foothills of the Himalayas. This location remains the only recorded occurrence for Maw Sit Sit.



Being in very close proximity to the Imperial Burma Jadeite mines, coupled with its rich green coloration, Maw Sit Sit was originally thought to be Jadeite, until Gubelin identified it as a separate entity.



Maw Sit Sit is sometimes referred to as a "cousin" of Jadeite, which is not inappropriate. It is, however, a rock, rather than a mineral, being an aggregate of several different minerals. Described as a chromium-rich metamorphic rock, the dominant mineral in

Maw Sit Sit is Kosmochlor, a sodium chromium pyroxene, which constitutes about 60% of the mix. The next ingredient, at around 15% is chromium-enriched Jadeite, followed by chromium Ekermannite at 4% and chromium Albite at 1%. This composition makes Maw Sit Sit the most chromium rich material on the planet. It can also contain small amounts of other minerals such as pure Chromite and Natrolite.



Maw Sit Sit is an opaque stone, consisting of a green ranging from dark emerald to almost neon in colour and rivalling that of the best Imperial Jadeite, with distinctive black splotches, swirls and veins. It is most commonly cut as cabochons, beads or carvings.



Technical Stuff Hardness: 6-7 Specific Gravity: 2.5 - 3.5Refractive Index: 1.52 - 1.74 (varies according to the exact chemical composition) Lustre: Vitreous to Greasy Crystal System: Monoclinic Habit: Massive Fracture: Irregular to conchoidal.



Expect to pay from \$2 to \$10 per carat for good quality cabochons, more for matched pairs & carvings.

South Australia Mesa journe

FEATURES



Coompana geochemistry New protocols accelerate greenfield acceleration. Read more...



Geology meets art Hill Sculpture Trail. Read more...





Highlights of 2018 Geological Survey of South Australia. Read more...



Roundtable for Oil and Gas Fostering sustainable projects in South Australia. Read more...



Explorer Challenge goes live Global innovators focus on OZ Minerals' 1 TB plus of data.





Includes drilling on Lake Torrens breaking an 11-year on-ground exploration hiatus. Read more...



Getting Lean in 2019 Lean tools to better serve you. Read more...



Onshore oil and gas drilling Exploration steps up in the Cooper and Eromanga basins. Read more...



Tracks that rock The story behind the scenery: Adelaide to Parachilna. <u>Read more...</u>



Contributed by Ian Everard... Ian Everard' Gemkhana and Caves Safari, Victoria and New South Wales. Part 1 - Victoria's 2019 Gemkhana



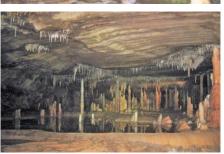
Outdoor traders 09-03-2019.



Outdoor traders 09-03-2019. Part 2 - Buchan Caves, VICTORIA. 17-03-2019





















Part 3 - Stony Creek Trestle Bridge, VICTORIA. - 17-03-2019





Part 4 - Yarrangobilly Caves, Kosciuszko National Park, NSW. 27-03-2019



Part 4 - Yarrangobilly Caves, Kosciuszko National Park, NSW. 27-03-2019: Continued...



Wooden wheeled Log wagon, Mingling Waters Caravan Park, VIC.



Yarrangobilly Gorge, Kosciuszko national Park, NSW.



Yarrangobilly River, Kosciuszko national Park, NSW



















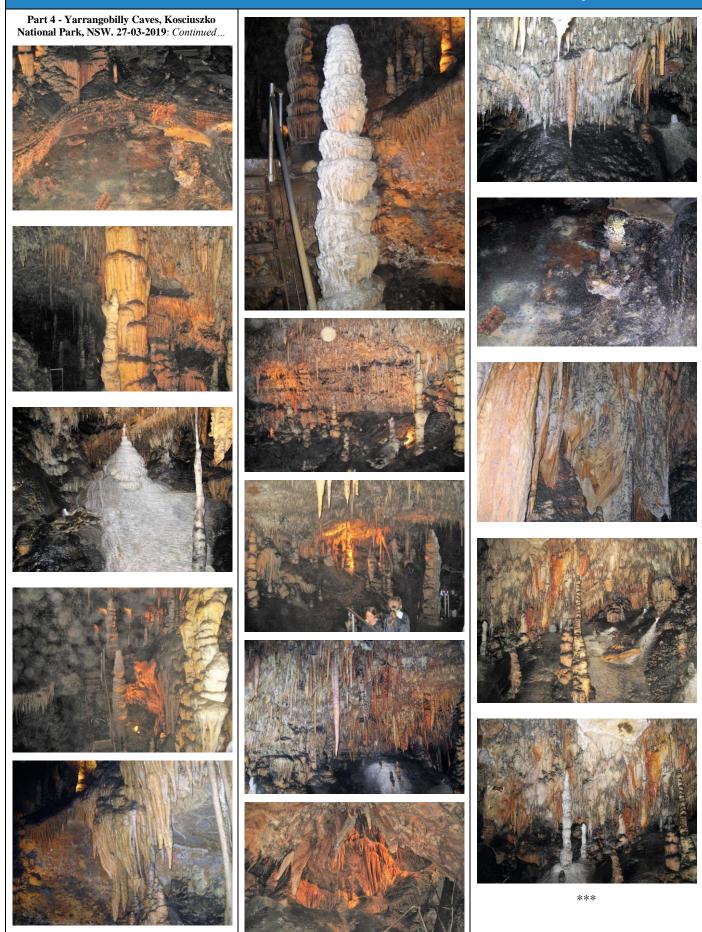






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Page 8.



Contributed by Janet and Mel Jones...

DIY – Plastic Milk Carton Projects

Most of this page has pictures of how we are using milk cartons. On column three we have included a link to Pinterest where there is an abundance of ideas.

Re-using plastic milk cartons in the garden can save quite a bit of money if you are keen on propagating plants to extend your garden, or for gifts to give others, or for selling on.



We save and re-use both 2 litre and 3 litre cartons. (L) side of picture is a 3-litre carton cut just below the lower ridge. (R) side of picture is a 3-litre carton cut just below the ridge under the handle. Note the drainage holes poked in with sharp pointed scissors. The remaining handle section can be used as shown in columns 2 and 3.



High-sided, 3-litre milk carton shelters for succulent propagation from source plant's leaves.



Shallow-sided, 3 litre milk carton shelter for succulent propagation from source plant's leaves.



Both 2 litre and 3 litre milk cartons, cut around just below the handle, provide a generous amount of room for potting mix to grow a reasonable sized plant to transplant to the garden or for selling on. However, be mindful that the plastic will become brittle and snap when handled after several years of use...especially if constantly kept in full sunshine.



A crate of plants containing both 2-litre and 3-litre plastic milk cartons...their square and rectangular shapes enable cramming.



A crate of plants, each planted in the top section of a 3-litre plastic milk carton. Caps have been removed and replaced with a roll of shade cloth inserted in the spout of each carton to enable drainage.



3-litre plastic milk cartons with a plastic watering spike inserted in their spouts to enable slow release of water to the plant in the halfharrel



(top) 2-litre plastic milk carton / (bottom) 3-litre plastic milk carton ...both serve as scoops for garden use or as doggy pooper scoopers.



3-litre plastic milk carton, with holes drilled into the screw on lid, serves as a portable watering reservoir.



2-litre plastic milk carton scoop delivers gravel to the bird bath to support a planter bowl above water drainage level...facilitating better drainage for the plants.



(Front view - above) Handle-end, 3-litre plastic milk cartons, stapled together and braced with a strut, serve as an ideal home for soiled, garden shoes ... stored out of the way behind the laundry door. (Rear view – below).





Plant labels we made from plastic milk cartons. Easy to cut with scissors and write on with a Sharpie Permanent Marker. However, the print was easily removed outdoors by exposure to the weather. Any ideas to overcome this are most welcome.

Other examples of projects using plastic milk cartons can be found on Pinterest by clicking / tapping on the following hyperlink...

Pinterest - Plastic Milk Carton Projects...

^{***}

Members Out and About - Claudia and Graham's Safari to North-Western Europe - Page 1 of 4.

Contributed by Claudia and Graham Gill ...

Claudia and Graham's Safari to North-Western Europe.

Part 1 A selection of pictures taken at the National Railway Museum in York, UK.



London Brighton & South Coast Railway 0-4-2 steam locomotive, 'Gladstone', built 1882.



Queen Adelaide's Saloon, No 2 (railway carriage).



Queen Victoria's Saloon (railway carriage).



Victoria's Saloon (railway carriage). Queen



Steam locomotive, Midland Railway, 4-2-2 No 673, Midland Spinner, designed by S.W. Johnson, built at Derby in March 1897



Built by Alstom in 1992, 3308 Eurostar class 373 power car was used on high-speed trains between the heart of London and the heart of Paris.



Electric locomotive, British Railways, Class 76 (EM1) Bo-Bo (Overhead) No. 26020, built at Gorton Works in 1951.



(foreground) Shutt End Colliery 0-4-0 "Agenoria" built 1829.-(background) LMS(R) steam locomotive 'Duchess of Hamilton' 4-6-2 Coronation class. No 6229, 1938.



Railway carriage, four wheeled, 2nd class, Bodmin & Wadebridge Railway, built in 1834. Length over buffers: 17 ft.



Steam locomotive KF class number 7, 4-8-4, Chinese Government Railways, designed by Colonel Kenneth Cantlie, built by Vulcan Foundry in 1935 (as number 607).



London & North Eastern Railway steam locomotive 'Mallard' 4-6-2 A4 Pacific Class, No 4468, 1938 (steam locomotive).



Dandy car, North British Railway, Port Carlisle Dandy Car (dark red horse drawn rail coach).



Replica of Robert Stephenson's 1829, 0-2-2, steam locon 'Rocket'.



Furness Railway 0-4-0 Steam Locomotive, No 3 'Coppernob', built 1846



'Conserved but not restored" sums up this funny little Hebburn Works 0-4-0 industrial saddle tank steam engine built in 1874 by Black Hawthorn & Co. Ltd. of Gateshead.

More information about the National Railway Museum, Leeman Road, York, UK., can be found at the following hyperlink: https://www.railwaymuseum.org.uk/

Members Out and About - Claudia and Graham's Safari to North-Western Europe - Page 2 of 4.

Claudia and Graham's Safari to North-Western Europe. Continued...

Part 2 An unexpected 'Flying Scotsman' photoopportunity

But first, an explanation for such an opportunity, provided by an extract taken from The Yorkshire Post, Saturday, January 12th, 2019; pages 1 and 2.



Flying Scotsman passes Eggborough power station enroute to York where it helped pay tribute to Sir William McAlpine, the construction baron and railway enthusiast, who died last year at 82. Sir William helped save Flying Scotsman in 1973. *Picture: James Hardisty*.

Flying Visit

By Yorkshire Post 12 Jan 2019 DAVID BEHRENS COUNTY CORRESPONDENT

Flying Scotsman passes Eggborough power station enroute to York where it helped pay tribute to Sir William McAlpine, the construction baron and railway enthusiast, who died last year at 82. Sir William helped save Flying Scotsman in 1973

It was the memorial that he would have wanted: bolted to the side of a locomotive and flying down the East Coast main line at 110mph.

Sir William McAlpine was immortalized yesterday on the newly unveiled nameplate of one of the workhorse electric units that runs from Edinburgh, York and Leeds to London.

At its side for the ceremony at the National Railway Museum was his pride and joy, Flying Scotsman, the enduring symbol of Britain's steam age, which he purchased in 1973 and helped restore to service.

It opened its 2019 season as a heritage attraction by steaming into York Station just after lunchtime, for yesterday's event.

It had begun the day by leading a memorial trip from King's Cross to York, which organizers had termed Scotsman Salute.

The more modern Class 90 loco, bearing the new plaque, made the return journey to London.

One of a fleet of electric intercity trains made for the old British Railways in the 1980s, it now bears the livery of the publicly owned LNER railway, whose initials were previously used by the private company that commissioned Flying Scotsman at its Doncaster works in 1923.

Sir William is considered the engine's saviour, having rescued it from an American tour so financially disastrous that it was feared Scotsman would have been broken up. He sold it in the 1990s. The locomotive, designed by Sir Nigel Gresley, was the first steam train to achieve an authenticated speed of 100mph and the first to run non-stop between Edinburgh and London.

Sir William's widow, Lady Judy McAlpine, was at the turntable in the Great Hall to watch the unveiling yesterday.

The York museum said that the juxtaposition of the original engine with the 1980s train now bearing Sir William's name had been "a unique event".



TRIBUTES ON TRACK: Lady McAlpine, widow of Sir William McAlpine, at the national Railway Museum in York in front of The Flying Scotsman bearing the name plaque of Sir William and a Class 90 electric locomotive unveiled as Sir William McAlpine.

A selection of Claudia and Graham's snaps...



York Railway Station.



York Railway Station



LNER Class A3 60103/4472 Flying Scotsman is a Pacific steam locomotive built in 1923 for the London and North Eastern Railway (LNER) at Doncaster Works to a design of Sir Nigel Gresley. It was employed on long-distance express East Coast Main Line trains by the LNER and its successors, British Railways Eastern and North-Eastern Regions, notably on the London to Edinburgh Flying Scotsman train service after which it was named.



The Flying Scotsman set two world records for steam traction, becoming the first steam locomotive to be officially authenticated at reaching 100 miles per hour (160.9 km/h) on 30 November 1934, and then setting a record for the longest non-stop run by a steam locomotive when it ran 422 miles (679 km) on 8 August 1989 while in Australia.







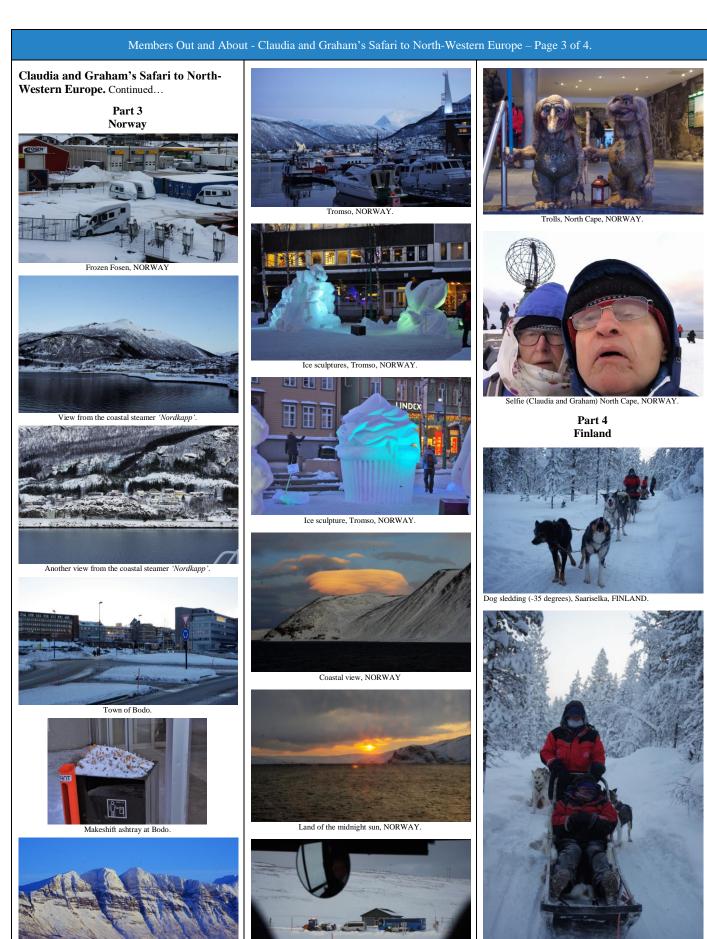


NOTE: The 'Flying Scotsman', over its history has had an array of numbers...1472 (to February 1924) **4472** (February 1924 – January 1946) 502 (January–May 1946) 103 (May 1946–December 1948) **60103** (December 1948 on). It currently carries **60103** but was **4472** when in Australia in 1988/1989.

To watch VHS video footage of the 'Flying Scotsman' in Australia during 1988 and 1989 click on the following hyperlinks...

<u>Flying Scotsman - Train Enthusiast's Video Diary 1988-10-25</u> <u>Flying Scotsman - Train Enthusiast's Video Diary 1988-10-28</u>

Flying Scotsman - Train Enthusiast's Video Diary 1989-08-27



Dog sledding...Claudia seated and Graham standing (-35degees), Saariselka, FINLAND. Continued next page...

Coastal view, NORWAY. Note the houses which are specks, barely visible near the water's edge.

7 Coach to North Cape, NORWAY...had to go in convoy behind a snow plough.

Claudia and Graham's Safari to North-Western Europe. Part 4 – Finland Continued...



Saariselka, FINLAND.



Saariselka, FINLAND.



Cold as.



Stayed overnight in this igloo, Sinetta, FINLAND.



Angry Birds Park, Rovaniemi, FINLAND.



Frozen river, Rovaniemi, FINLAND



View from our bus of the main street, Rovaniemi, FINLAND.



View from our train on the way to Helsinki, FINLAND.



Arrival at Helsinki, FINLAND.



Evening, Helsinki, FINLAND.

Synopsis of 'Our Safari to North-Western Europe' by Claudia

While Tea Tree Gully, South Australia, was sweltering with over 40+ degrees hot weather, we were in the Arctic Circle with temperatures of -26 to -35!

After exploring York and London, we flew to Bergen in Norway, where it was snowing! We boarded the coastal steamer, Nordkapp, on its northbound tour along the Norwegian coast, with stops at small villages and towns along the way. We walked into town on the longer stays or did a tour.

One was a bus tour to North Cape, the highest point in Europe. The bus, in convoy, followed a snow plough all the way through stark white country with grey skies, dark seas, and it was snowing again!

At Saariselka we had a dog sledge ride. It was thrilling racing through snow covered pine forests over frozen lakes and rivers. We saw the Northern Lights unbelievable, just magic. Our camera stopped working, so we have no photos, but we have our memories.

From Norway we made our way down Finland by bus and train all the way; such beautiful country it quite takes your breath away. The sun always just peeking over the hills, coming up at about 8 and it's dark again by 4pm. The days seemed like we were having dawn and sunset all day. We were very lucky with the weather all the way - bright clear days, and not much rain.

Helsinki was our last stop, a large busy city, and raining, turning the snow to coffee coloured slush and then to ice, making walking difficult and dangerous. And, it was bitterly cold.

Norway and Finland are both spectacularly beautiful countries, with very friendly people who all speak English, and have different food...try chocolate cheese!

We had a great holiday with many beautiful memories...would love to go back and see the countries again; when it's green though.

Cheers Claudia and Graham

General Interest - 'Newcastle and Rail - The Never-ending Story' - Part 8 of 24 - Page 1 of 4.

Contributed by Mel Jones ...

'Newcastle and Rail – The Never-ending Story' by Garry Reynolds Part 8 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



Sam, a pit horse at 'Stockrington No.2 Colliery', Newcastle District, in 1978. Source: Brian Andrews.

Pit horses and railways

Pit horses were used in combination with primitive underground and surface railways from the very early days of mining in the Newcastle District.

The use of horse power overtook human power in the form of convict labour suffering secondary punishment in the Newcastle Gaol, Stockade and the isolation of Nobbys Head. However, once transportation of England's criminals to the Colony of New South Wales was curtailed in the 1840s, animal power took over and was so successful that pit horses were used in the Newcastle Mining District well into the 20th century.



A 'Dudley Colliery' horse-drawn rail wagon in the Newcastle Mining District. *Source: John Turner*.

The secret was in the seams

In Newcastle, as the coal seams tended to be thicker than in Britain or Europe, the headway in the underground workings was generally higher. This enabled the use of larger breeds of horses rather than the smaller ponies employed overseas.

Not only were horses an integral part of the work day for mining communities in the Newcastle Mining District, they also had a role on 'days off'. Pit horses were part of regular derbies put on as entertainment in coalfields towns to raise money for worthy causes such as



Testing work for men and pit horse underground. Source: Hidden Hamilton.

local hospitals.

It was said, in some instances, the pit horses were so well-adapted to the routines of the men and managers that they virtually walked themselves out of the underground workings at the end of a week's work and strolled into the pit paddock to graze over the weekend.

Come Sunday afternoon, they made their way back to their underground stables ready for the Monday shift. However, these subterranean stables were challenging places for the miners as they reeked of powerful odours of ammonia from the horses' defecations in such a confined space.

Meanwhile, on the surface around Newcastle Harbour, the coal, rail and shipping industries were expanding together led by the Australian Agricultural Company in the second half of the 19th century. With the AA Co Government monopoly on the Newcastle coal fields ended, mining developed in most suburbs in Newcastle and Lake Macquarie as well as Cessnock and the areas surrounding Maitland.



Horses still had a role in the AA Company's operations, however, steam locomotives were taking on an increasing role in the 1870s around the port facilities in Newcastle. *Source Newcastle Herald*.



The original Newcastle steam tram sheds in the foreground with the railway running along the wharf feeding the ships with coal at Kings Wharf surrounded by an assortment of AA Co buildings. *Source: Newcastle Herald.*



The AA Co land near Newcastle's first steam tram depot with the Great Northern Railway running to Newcastle Railway Station and marshalling yard. This site is where the now defunct Civic Railway Station was located adjacent to Kings Wharf. *Source: Newcastle Herald*.



The AA Co's Newcastle wharves and rail sidings in 1900 with the Customs House Tower in the background. *Source: NIHA*.



The AA Co wharf with a railway-fed coal loading staithe for ships in 1897. Source: Uni of Newcastle.

General Interest - 'Newcastle and Rail - The Never-ending Story' - Part 8 of 24 - Page 2 of 4.

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



The Newcastle Boat Harbour and a coal staithe for loading ships from rail coal wagons. Source: Newcastle Historical Societ



Newcastle Harbour in 1875 with "The Dyke" (left centre) at Carrington being built from offloaded sailing ship rock ballast from around the world and Stockton to the right with ballast grounds as well. The Great Northern Railway runs along the foreshore to Newcastle Railway Station and marshalling yard - all closed today. Source: State Library of Victoria.



nips lined up discharging rock ballast at Stockton before loading coal carried by rail to the Port of Newcastle. Source: NCC

From the 1870s into the early 1900s, as coal mining spread through the Newcastle and Maitland Districts, companies were particularly attracted to estuarine or Hunter delta mining because of its proximity to the Newcastle Harbour and established rail networks.



tockton Colliery adjacent to Newcastle Harbour with Nobbys Head in the background. Source: Flickr.

The better-known pits were around Wickham and Carrington and Stockton on the opposite side of the Harbour to the City.



Stockton Colliery railway coal loading staithe. Source: Flicks Stockton Colliery was said to be the deepest mine in the Newcastle district, with shafts down to 600ft (183m). However, it was a dangerous colliery.

In the Newcastle Herald, Mike Scanlon reports that a disaster unfolded about 4am on December 2, 1896, when the bodies of two men were found below at the ventilation furnace. They had died probably four hours before, overcome by a thick, deadly mine gas, possibly carbon monoxide produced by a fire in abandoned workings.

Despite the gas risk, the two bodies were recovered by mine deputies while all coalmining ceased.

"The next night, after the two funerals, an exploring party of 12 men ventured underground to check on the probable fire source. Their 9.30pm departure was to allow any accumulated mine gases to disperse, after directing more air currents deep below. But poisonous gas pockets soon meant members of the investigating party starting to fall over or start running. More rescuers arrived to help, but four members of the exploring party were fatally overcome by mine gas. Six men were now gas victims.

Another rescue attempt was then made, this time led by mine deputy Robert Jury. Some of the group, after losing their direction, were also overcome by carbon monoxide fumes.

Five men had died courageously trying to save an earlier gassed mining mate, Thomas McAlpine.

One young rescuer who survived was Robert Drylie. He braved toxic gases in the old workings six times trying to help others. All bodies were recovered, the old dangerous workings bricked off and on December 5, the public funeral of eight of the 11 victims was witnessed by thousands. The eight coffins were brought across on one ferry from Stockton to Newcastle while four other ferries carried the mourners.



The crowd of mourners watches on as the caskets are carried from the ferry that crossed the Newcastle Harbour from Stockton to here at the Great Northern Railway near Newcastle Station and the steam tram tracks. Source: Newcastle Herald.

A massive funeral was conducted in Newcastle, while the death of the rescuers highlighted the need for special breathing equipment for rescue operations.



rs of the Stockton C Disaster rescue team. Source: Newcastle Herald.

Despite this setback, by 1901, as coal mining grew, there were a staggering 58 collieries operating or being built, in the then Newcastle District. Coal loading which had commenced with convict labour back in the early 1800s on the city-side of the Harbour, continued until 1921.



Sail and steam entering Newcastle Harbour safely with Stockton Colliery in the background. Source: Newcastle Herald.



Departing Newcastle Harbour through the North and South breakwaters safely with the train line in the foreground to Nobbys Head, Stockton Colliery in the background and the treacherous Stockton Beach in 1906. Source: Newcastle Herald

However, the mine was not the only site of disasters at Stockton on the northern entrance to Newcastle Harbour where ships running aground and breaking up became not unexpected.



The wreck of the 'Adolphe' in 1904 after it was driven up against the 'Stockton' breakwater. Source: Twominutepostcards

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

More ships were driven ashore at Stockton Beach over the years, including the brand new 'MV Sygna'.



The 53,000 tonne Norwegian bulk carrier 'MV Sygna' with its spine shattered breaking up on Stockton Beach. Source: Pinterest.

In May 1974, the NSW coast was being battered by large storms which brought heavy swells off both Sydney and Newcastle. There was a massive swell of over 17 metres at the Newcastle Harbour Entrance and winds reaching 165kph.

The Norwegian bulk carrier, the 'Sygna', was on its maiden voyage and sitting 4 kilometres off the Newcastle coast waiting to load of 50,000 tonnes of coal destined for Europe. When the Bureau of Meteorology issued a severe storm warning and directive for ships to move out to sea, seven of the ten ships anchored off Newcastle did so, but the 'Sygna' was not one of them.

The ship's captain eventually issued orders to set sail, but it was too late. Even with its engines at full ahead the 'Sygna' was unable to make any headway and the storm turned it parallel to the shore. Within 30 minutes it had run aground on Stockton Beach.

With heavy seas pounding the stricken ship, its captain radioed a Mayday and gave the order to abandon ship. An Iroquois helicopter from RAAF Williamstown's Search and Rescue Squadron steadily rescued the 31 trapped sailors from the ship in near cyclone conditions but it was destined to end up a wreck with the remnants still sitting on Stockton Beach as a warning to others.

John 'Baron' Brown

A major contributor to the growth of the coal and rail industry in the Hunter was John 'Baron' Brown, 'The King of Coal' born in Newcastle in 1850. He was the son of James Brown, who with his brother Alexander established the firm of J&A Brown which took on and shattered the Government imposed monopoly of the Australian Agricultural Company in the Newcastle coal industry in the late 1840s.

The Brown brothers established the Richmond Vale Railway in 1857 when the first section was opened from Hexham, on the banks of the Hunter River, to Minmi near the Sugarloaf Range, about 9 kms. At Hexham, the railway crossed the then Hunter River Railway Company's line to Maitland (the current Main North line) and several coal loading staithes were built on the bank of the Hunter River.



Part of J&A Brown's wharfage at Hexham in 1897. Brown's ships made their way up the Hunter to this point to be loaded with coal carried on Brown's private railways from their mines. *Source: Newcastle Herald.*

John Brown worked his way up through the J&A Brown empire and began traveling overseas to research new mining techniques. In 1874, in what is now recognised as one of the most underrated events in Australian history, Brown secured agreements with London shipping companies to establish extensive trade between Newcastle and London.

In a stroke of the pen, Newcastle, the once convict hell hole for some of London's criminals, became the major supply point for the Pacific shipping routes of British steamships which dominated world trade.

The outcome was that Newcastle became the heavy industry, fuel, engineering and resource processing engine-room of the Australian economy and developed an extensive coal-rail network to support it right up to today.



The primitive J&A Brown 10 tonne non-air braked railway coal hopper. *Source: The Shed Rat.*

In 1882, John Brown became the general manager of the J&A Brown. Instead of relying on other companies to load and ship the Company's coal, he tried to make J&A Brown as self-sufficient as possible in a verticallyintegrated firm.

The 'Baron' purchased wharves, collieries, tugs, trains, rail-lines and ship loading equipment. He expanded the company's export business by marketing the coal overseas at cheap prices.

J&A Brown was innovative in being the first to introduce breathing apparatus into Australian mines, along with supplying electricity into mines and surrounding communities, including building its own power station.

John Brown was a classic entrepreneurial capitalist who for several years participated in what was called 'The Vend'. This was a cartel of Newcastle District coal mining companies who regulated prices and shared the trade – eliminating competition between themselves



J&A Brown's Richmond Main Colliery's remaining Administrati Building. *Source: Panoramio*.

and holding buyers to ransom.

However, after several years, 'Baron' Brown left The Vend in 1890. Now, free to reduce prices and with no shareholders to satisfy as he owned J&A Brown, the 'Baron' embarked on a period of trade expansion which contributed to the collapse of The Vend and exacerbated the wider depression in the Newcastle District. John Brown was about seizing power and unapologetically exercising it to the 'nth degree'.



J&A Brown Tank Locomotive No 9 2-8-2T. Source: Weston Langford.

Still, 'Baron' Brown didn't put all his eggs into one basket. Aside from investing in the latest mining plant, coal-carrying rolling stock, port facilities and engineering works, his company diversified geographically.

Brown ended up controlling two-thirds of marine towing in Sydney Harbour, undertook ocean salvage off Sydney and Newcastle, and monopolised the Newcastle port piloting system until the Government took it over. He also had a fleet of tugs operating in Sydney and Newcastle.



A J&A Brown Richmond Vale 2-8-0 ex-ROD British locomotives hauling a line of wooden coal wagons. *Source: Wikipedia*.

Along his classic capitalist pathway, the 'Baron' was known for his severe attitude to and treatment of his employees, always opposing the unions, and not giving-in to strikes. He refused to sell his employees the land they lived on, so he could threaten them with eviction if they were to strike.

General Interest - 'Newcastle and Rail – The Never-ending Story' – Part 8 of 24 – Page 4 of 4.

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

He often quarrelled with the Colliery Employees' Federation, eventually suing them for loss of trade. However, despite much industrial ill-will, the newspaper "The Australian Worker" admitted that on infrequent occasions, Brown was comparatively generous to his employees.

John Brown was also an accomplished equinebreeder, owning over 500 horses, many of which were fine race-winning thoroughbreds he had brought back from his overseas trips.



J&A Brown's Richmond Main Colliery. Source: Flickr.

In 1904, John Brown, who had taken over complete control of the J. & A. Brown Company, started a branch line from the initial section through the Sugarloaf Range to Richmond Main Colliery and Pelaw Main Colliery near Kurri Kurri - a distance of 35kms.

A large locomotive shed was constructed at Pelaw Main with a major repair shop at Hexham. Richmond Main Colliery was John "Baron" Brown's pride and joy, once possessing the largest vertical shaft in the Southern Hemisphere. disrespectful crowd, with plenty glad to see him gone.

Coal, shipping and rail

While John 'Baron' Brown was strutting the local, national and international stage building his empire, there was an intimate connection between shipping, coal and rail, especially as steam ships took a growing share of the traffic.

Back in 1875, a meeting of Newcastle businessmen formed the Newcastle Steamship Company, with the idea of undermining the established Maitland – Morpeth commercial shipping groups up the Hunter River. The Newcastle businessmen resented the Hunter River groups' priority and their influence in focusing government dredging on the River's channels rather than the Port of Newcastle.



A steam dredge deepening Newcastle Harbour channels in 1902. Source: Newcastle Herald.

The new company's ship - 'Kembla' - set the cat amongst the pigeons by covering the 100kms between Sydney and Newcastle in four and a half hours on her maiden voyage, a very competitive achievement.



J&A Brown's Pelaw Main Colliery Locomotive Shed featuring several ex-WWI ROD locomotives from the Western Front secured in a post-war deal by John Brown with the British Government. *Source: Flickriver*.

At its peak, the Mine employed over 1,200 men and boys, with a stable of over 200 pit horses. By the 1920's it was the most modern mine in the nation.

In 1926, Richmond Main Colliery set a world record for coal production in a vertical shaft mine (which still stands today) with 3,482 tons wound up a single shaft in one 8-hour shift.

However, the economic collapse of 1929 and the following Great Depression marked the start of the decline for Richmond Main Colliery.

The following year, John Brown died of a heart-attack. A divisive man in life, he had the same effect in death. His funeral was a huge affair, although many who attended came to see a 'show', and it was reported to be a



The steamship the "Kembla". Source: Pittwateronline.

Confronted by such opposition, other companies slashed freight and passenger fares, with one shipping company abandoning its route to Morpeth. These tactics failed to hinder the success of the Newcastle Company and a profit of 30% was announced at its first annual meeting. In 1879, it was able to buy from Australian Steam Navigation Company, its Hunter River trade, and the entire fleet engaged in it, with 'Baron' Brown the major investor.

However, change was in the air, the days of the river paddle steamers were coming to an end with the advent of the propeller-driven ships. Technology was advancing on several fronts, with the coastal railway system advancing toward Sydney.



The Age of Steam - train leaving Newcastle Station for the suburb of Belmont paralleled by a lengthy Newcastle steam tram. *Source: Uni Newcastle.*

More Next Month...

Contributed by Augie ...

At a recent job interview I was asked if I could perform under pressure.

I said I didn't know that one but I could have a fair crack at Bohemian Rhapsody..

Why do the French eat snails? They don't like fast food



General Interest.

Contributed by Doug Walker...



Mobility Scooter

An old man from Barnsley sadly lost his wife. He contacted the Barnsley Chronicle to arrange an obituary.

The couple had been happily married for fifty years before she passed away.

The old man went to the newspaper office to make the arrangements. When informed of the cost, the man uttered, in true Yorkshire fashion, "Ow Much?".

"Ah want summat simple" he explained, "My Gladys were a gud 'arted an', 'ard-workin' Yorkshire lass but she wunt av wanted owt swanky".

"Perhaps a small poem", suggested the woman at the desk.

"Nay", he said, "she wunt av wanted owt la-dida. Just put 'Gladys Braithwaite died."

"You need to say when", he was told by the receptionist.

"Do I? Well, put died 17th March. That'll do." "It is usual for the bereaved to add some

meaningful phrase about the dearly departed." The man considered for a moment. "Well, put

in, 'Sadly missed'. That'll do", he said.

"You can have another four words", the woman explained.

"No, no", he said, "she wouldn'av wanted me to splash out".

"The words are included in the standard price", the woman informed him.

"Ah they? Tha means av paid for 'em?"

"Yes, indeed sir".

"Well, if av paid for 'em, am 'avin 'em". The obituary was duly printed as follows: Gladys Braithwaite died, 17th March. Sadly missed. Mobility scooter for sale.

A Romantic Text Message

An elderly couple learned to send text messages on their mobile phones.

The wife, a retired college English instructor with emphasis on the Classics, was an unapologetic romantic; her husband, a retired Navy chief petty officer of thirty years' service, was a no-nonsense guy.

One afternoon the wife went to the local Starbuck's to meet a friend for coffee. While awaiting her friend's arrival, she exercised her new skill by sending her husband a romantic text message:

"If you are sleeping, send me your dreams If you are laughing, send me your smile. If you are eating, send me a bite. If you are drinking, send me a sip. If you are crying, send me your tears. I love you."

The husband responded: "I'm takin' a crap. Please advise!"



Lovemaking Tips for Seniors

- 1. Wear your glasses to make sure your partner is actually in the bed.
- 2. Set timer for 3 minutes, in case you doze off in the middle.
- 3. Set the mood with lighting. (Turn them ALL OFF!).
- 4. Make sure you put 000 on your speed dial before_you begin.
- 5. Write partner's name on your hand in case you can't remember.
- 6. Use extra polygrip so your teeth don't end up under the bed.
- 7. Have Tylenol ready in case you actually complete the act.
- 8. Make all the noise you want.... the neighbours are deaf, too.
- 9. If it works, call everyone you know with the good news!!
- 10. Don't even think about trying it twice.

Old is When...

Your sweetie says, 'Let's go upstairs and make love,' and you answer, 'Pick one; I can't do both!'

Your friends compliment you on your new alligator shoes and you're barefoot.

Going bra-less pulls all the wrinkles out of your face.

You don't care where your spouse goes, just as long as you don't have to go along.

You are cautioned to slow down by the doctor instead of by the police. 'Getting a little action' means you

don't need to take a laxative today.

'Getting lucky' means you find your car in the parking lot.

An 'all-nighter' means not getting up to use the bathroom.

You're not sure if these are facts or jokes.

(This in large type so you can read it)

Contributed by Augie Gray...

Home Depot Releases New Bluetooth Cordless Hose



You can find this product in the blinker fluid aisle.



The Honeymoon Pants....

Mike was going to be married to Jane, so his father sat him down for a little chat. He said, 'Mike, let me tell you something. On my wedding night in our honeymoon suite, I took off my pants, handed them to your mother, and said, 'Here, try these on!'' She did and said,

'These are too big, I can't wear them.' I replied, 'Exactly, I wear the pants in this family and I always will. Ever since that night we have never had any problems.'

'Hmmm,' said Mike. He thought that might be a good thing to try on his honeymoon, so Mike took off his pants and said to Jane, 'Here try these on.' She tried them on and said, 'These are too large, they don't fit me.' Mike said, "Exactly, I wear the pants in this family, and I always will. I don't want you to ever forget that".

Then Jane took off her pants and handed them to Mike. She said, 'Here, you try on mine.' He did and said, 'I can't get into your pants.'

Jane said, 'Exactly. **And, if you don't change your smart-ass attitude, you never will.'**

And, they lived happily ever after!

Members' Noticeboard Fri 3rd - Sun 5th, May 2019, Murraylands Mineral Boxes and Flats Price List Gem and Mineral Club Rockarama "Crystal Tea Tree Gully Gem and and Craft Fair", Collier Park, Palmer, SA. Mineral Club Inc. 3.5 x 3.3cm .per 100 \$12.00 Features: Exhibits of gems, minerals, fossils, 2019 Per 10 \$1.50 jewellery, lapidary machinery and more ... most being \$13.00 .per100 **Biennial Exhibition** 4cm x 4cm. for sale. Meals, snacks, and drinks available. Public Per 10 \$1.50 Tea Tree Gully Primary School Memorial Drive, Tea Tree Gulb Saturday 20th July - 9am to 5pm Sunday 21st July - 10am to 4pm в per 100 \$15.00 Entry to all the weekend events is FREE 5cm x 5.2cm Per 10 \$2..00 The Rockarama also includes the 2019 South 6.2cm x 7.5cm C per 100 \$18.00 Australian Metal Detecting Championships which Per 10 \$2.50 will be held at Collier Park, Palmer, South Australia, \$19.00 D 7cm x 7cm .per 100 on Sunday May 5th, 2019 (Session 1 - Morning Per 10 \$2.50 competition 10.30am - 11.30am, Session 2 -\$20.00 E 7cm x 9.5cm per 100 Per 10 \$2.50 Afternoon competition 1.00pm - 2.00pm, and the \$22.00 per 100 9.5cm.. competition prize presentation is at 2.45pm.). Per 10 \$3.00 Click/tap on link...MGMC Website G 9.5cm x 9.5cm.. .per 100 \$23.00 Per 10 \$3.50 MGMC President (Kym): 0427 054 336 per 100 \$25.00 н Per 10 \$4.00 *** 12.5cm.. .per 100 \$30.00 ight Meals and Per 10 \$4.50 **For Sale** 395 x 265 x 50mm.... Flat (lid & base) \$2.50 398 x 290 x 98mm......(lid & base) \$4.00 1 Gemmaster 8-inch double ended grinder, Flat Admission Prices All entry - \$5.00 Children under 12 with an Adult are Free (All boxes and flats fold together, no staples required) with many accessories including, but not limited to; 2x 6-inch diamond wheels Greg Vort-Ronald 0413796279 Email luv2paint@iprimus.com.au many polishing discs PLEASE NOTE: To preserve the floor, NO STILETTOS or STUDDED FOOTWEAR. drum sander and discs a selection of unused belts and disc grit dop sticks *** grinding wheels diamond dresser *** cutting rough pping glass and more \$750 Contact Granton Edwards 8396 5172 or 0407 973 683 *** **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... Lapidary World: Click here... Metal Detectors - Garrett Australia: Click here... Metal Detectors - Miners Den Adelaide: Click here... Mineralogical Society of SA Inc: Click here... Murraylands Gem and Mineral Club Inc: Click here... NQ Explorers: Click here Prospecting Australia: Click here... Southern Rockhounds: Click here... Tea Tree Gully Gem and Mineral Club: Click here... The Australian Mineral Collector: Click here...