



SERVE TO CHANGE LIVES

Rotary



Club of Tamworth First Light

MEETING 1572 ISSUE 16 WEDNESDAY 13th October
2021



Rotary Year 2021 - 2022

District Governor	David Mayne
President:	Marina Hearne
Secretary:	Sue O'Connor
Treasurer:	Michael Smith

Zoom

Change in venue - we are back to Zoom.

Due to the new capacity restrictions on bookings in hospitality, we are not able to attend West Leagues for the next 2 breakfast meetings.

This may change depending on the vaccination rates and case outbreaks. Please check your emails to keep updated.

Link for next week 13.10.2021 at 7am

<https://us02web.zoom.us/j/87465682729?pwd=R25OOVBLckZDRmp2MHJjU0VFc0F3UT09>

Thanks heaps

Marina

Don't Forget your Zoom Hats this Wednesday,
Brighter the better.



Rotary spring Golf Day, Tamworth Golf Club, Mixed Stableford,
shotgun start, \$40 includes lunch, Book at the pro shop. 11am
Friday 12th November 2021

Incoming Board Positions

I am looking for interested parties from the club to take on a Board role with the **2022 – 23 Rotary Year**. There is a small-time commitment for each position, but it is a great opportunity to participate in the direction of the Club.

At this point all positions are available and if you would like to contact me on 0438 623 429 to discuss the roles further.

Richard Hardwick



Marina's 2 cents worth

Quote of the week:

If you have positive energy, you will always attract positive outcomes.

Steve Backley, OBE

(Steve is a retired British track and field athlete who competed in the javelin throw.)

Joke of the week:

What's a wind turbines favourite colour? Blew.

- IMPORTANT! From October 11 – as part of the NSW roadmap, those who are not double vaccinated will be unable to enter West League's premises. You will need to provide proof of you vaccination status. **If you fall into this category, please ring/ email me and let me know.**

- ***Our mental health fundraiser Be Fit For You is now live. \$5 entry fee only (your normal donation you give to mental health on hat day), get your kids, friends and the community to donate. Please like and share our fundraiser on Facebook and email to help make this a success.***

Link here <https://befitforyou.raisely.com/>

- **Lift the Lid Hat Day is 10 October**, as this isn't near our Wednesday meeting, if all members could wear their hats for our meeting on 13 October and our fine session (\$5 contribution if you're not entering the fundraiser) will go towards donating to Lift the Lid.

- Sunrise to Santa, currently we are swimming in the big wide ocean!

- Photos from past Rotary years – if you have any on your phones, computers wherever, could you either email them to me if it's not too many or if there are a lot, put it on a USB and I will give it back once copied over

Stay safe, stay sane! Get vaccinated pretty please 😊

Marina



Raymond McLaren being thanked by Brodie Shields at Wednesday breakfast meeting. Raymond topic was making sense of energy in a power-hungry world. His summary is below



MAKING SENSE OF ENERGY IN A POWER-HUNGRY WORLD – summary

WHAT IS ENERGY? Basically, it is THE ESSENCE OF THE UNIVERSE. All atoms are energy.

HOW MUCH ENERGY IS THERE? Energy is UNLIMITED. All matter is essentially CONGEALED ENERGY.

WHY IS ENERGY SO IMPORTANT? Everything we do requires ENERGY, *everything*

WHERE DO WE FIND ENERGY ON OUR PLANET? SEQUESTERED, (old stored Energy, coal, CSG, oil, uranium);
EXTANT (new Energy coming in from the sun, solar radiation, visible and IR, wind, tidal)

WHAT IS THE DIFFERENCE BETWEEN ENERGY AND POWER? ENERGY is latent in chemical structures such as Coal and Oil. POWER is Energy in Action, (such as electric power.)

WHAT IS CONVERSION? Transforming LATENT ENERGY into POWER. (electric, thermal, mechanical)

HOW DO WE CONVERT ENERGY INTO POWER? Oxidation (combustion) powering Steam turbines ,
Oxidation in Internal Combustion Engines (ICE); Nuclear Fission powering steam turbines;
Photo-voltaic panels convert sunlight into DC electric power; Turbines convert wind energy into power

WHY CONVERT ENERGY INTO POWER? To power our civilisation, and enable it to advance in style and comfort.

HOW HAVE WE ACHIEVED SUCCESSFUL CONVERSION? By the systematic application of Science and Engineering.

WHY DO WE NEED SO MUCH POWER NOW? Because of billions of Aircons, billions of Computers, Digital Currency, and millions of New Cars, all increasing rapidly and all needing power.

HOW IS THE USE OF POWER CHANGING? Cars that used to be powered by oil, will now be fuelled from the Electricity Grid. This is increasing the need for Electric Power.
Power normally derived from SEQUESTERED Energy forms will now be derived from EXTANT Energy sources. (renewables)

WHAT ARE THE CONSEQUENCES OF CHANGING TO RENEWABLE POWER:? Need for vast infrastructure to convert EXTANT Energy into power. Variable output needs COMPLEX CONTROL of the grid, and new power lines.
More ENERGY STORAGE becoming necessary to ensure continuous supply.

HOW CAN ENERGY BE STORED? Batteries, pumped hydro, raised weights, flywheels, compressed air, compressed hydrogen, hydrogen in metal hydrides

ARE ENERGY STORAGE SYSTEMS REALLY PRACTICAL? Some are, Batteries have been used because they are thermodynamically efficient.. ENERGY OUT ALMOST EQUALS ENERGY IN. The other systems are less efficient.

CAN HYDROGEN BE USED TO STORE ENERGY? Yes, it has been used for a long time for this.

WHY IS HYDROGEN NOT MORE WIDELY USED, E.G FOR VEHICLE FUEL? Basically because it does not embody a Phase Change at any affordable temperature or pressure. The long chain of conversions needed to deploy Hydrogen render it thermodynamically inefficient.

WHAT HAS HAPPENED TO GEOTHERMAL? It is beyond the capability of present engineering. Too deep and too hot. Needs SUPERCRITICAL temperatures to be efficient.

My condensed view on Energy Storage systems ? Only systems that employ a PHASE CHANGE MATERIAL as their operating medium will be efficient. If not, they are basically a waste of time.

MY PERSONAL THOUGHTS ON THE ENERGY SITUATION: The Renewables Industry is popular with Governments because it provides some employment. But realistically, a few Nuclear power stations placed around Australia would provide us with ample reliable power without all the complexity and environmental problems caused by the Reusables Industry. It would also help us to achieve zero emissions by 2050, while maintaining our industrial capabilities, and present lifestyle.

FOR THE FUTURE, Nuclear Fusion will be able to provide us with unlimited power. But there seems to be a long way to go yet. Curiously, and to keep us grounded, this newest of all technologies, will still require the use of STEAM TURBINES in the secondary conversion to electric power.

Raymond McLaren, Mech.Eng.Cert. (NTUC), Grad.Cert.Eng.Man. (UTS)
Engineer and Director , Andromeda Industries Pty Ltd, Moonbi NSW 31 July 2021

Next tree planting projects

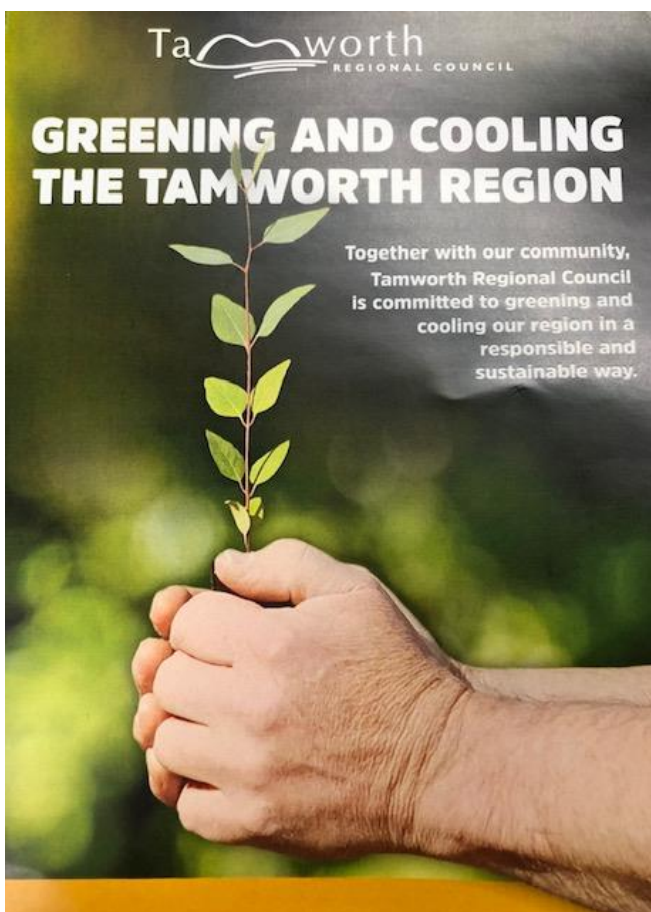
The next tree planting project will be Sunday the 17th of October at 8.30 am at Moore Creek Road near Browns Lane.

Depending on numbers, we should be able to plant, mulch and water the 80 trees in about 2 hours. Please bring gloves, spade, shovel, wheelbarrow & we will need a couple of cordless drills.

Our third project will be maintenance & training morning on tree maintenance at Chauvel Park in Waree Drive Tamworth on **Sunday 31st October at 8.30 am** for a couple of hours where Rob Chandler will show us how to prune, mulch and maintain young trees which we will be doing for the trees we plant for the first couple of years.

Please email Peter Ryan - pryan@inlandtechnology.com.au if you are able to assist at one or both mornings of the tree planting or maintenance mornings

Regards



We aim to substantially increase the canopy coverage in urban areas across the Tamworth region to 40% by 2040

Maintaining and increasing green spaces and streetscapes increases the appeal and liveability of urban spaces by decreasing temperatures during summer months and providing habitat, health and well being benefits.

The following key tips are provided to assist you in ensuring your new planting will become a tree for the future.

Tree location

Before selecting your tree species, careful consideration needs to be given to where you are going to plant it. Powerlines, footpaths and underground services are the most common pieces of infrastructure that trees can impact. With good planning you can avoid these and allow your tree the best opportunity to thrive. For further information, contact Council on 6767 5555.

The diagram illustrates a cross-section of a street. On the left, a 'Street light' is shown. Below it, various underground services are labeled: 'Power', 'Telecommunications', 'Gas', 'Trunk mains', 'Sewer', 'Water', and 'Stormwater'. A 'Footpath' is also indicated. A tree is shown planted in the middle of the street, positioned to avoid these infrastructure elements. The tree's canopy is shown above the ground level.

“ The right tree, planted at the right time, at the right location, leads to the right result. ”



Tree species selection

The Tamworth Region has a unique harsh climatic variation that makes tree establishment extremely challenging. With a range of -4 to 44 degrees Celsius our tree selection has to be hardy to thrive in these conditions. TRC provides a broad list of recommended native and exotic trees that once established, can tolerate these variations. Please refer to www.tamworth.nsw.gov.au/trees to view this list.

Greening success is not only dependent on species selection but also correct planting time. It is also proven healthier, robust trees are a result of planting smaller stock, which as young trees are more adaptable and likely to thrive.

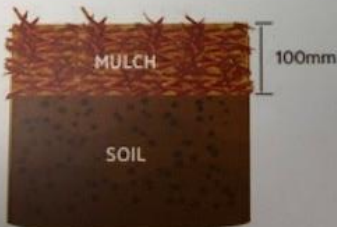
Tubestock is commonly used with native trees to attain superior results. Native species are best planted in Autumn or Spring, depending on the frost tolerance of the respective species.

Deciduous trees come either bare rooted or potted up. The best time to plant bare rooted stock in our region is in July, while potted deciduous trees are best planted in Autumn.

Preparation for Planting

Prepare a square hole (600mm wide x 400-600mm deep). Fill the hole with water in the week leading up to planting to provide a deep water source for your new plant.

The hole should be dishd to prevent water running away from the plant.



Early Tree Care

The first 18 months is crucial in the establishment success. Installing tree guards, mulching and follow up watering will ensure a good start to a robust tree with a strong root system.

Mulching

The use of mulch reduces weed competition, improves root growth and aids in moisture retention. Mulch should be used for a minimum of 2 years after planting and should be no more than 100mm thick and over 600mm in a circular area.

Water

Watering is dependant on species and weather conditions. Regular monitoring is important but in most cases a deep watering once a month is sufficient.

Tree guards

Tree stock benefit from a 600mm corflute tree guard. It is an effective way to protect the tube stock in the first years.



Fun Stuff

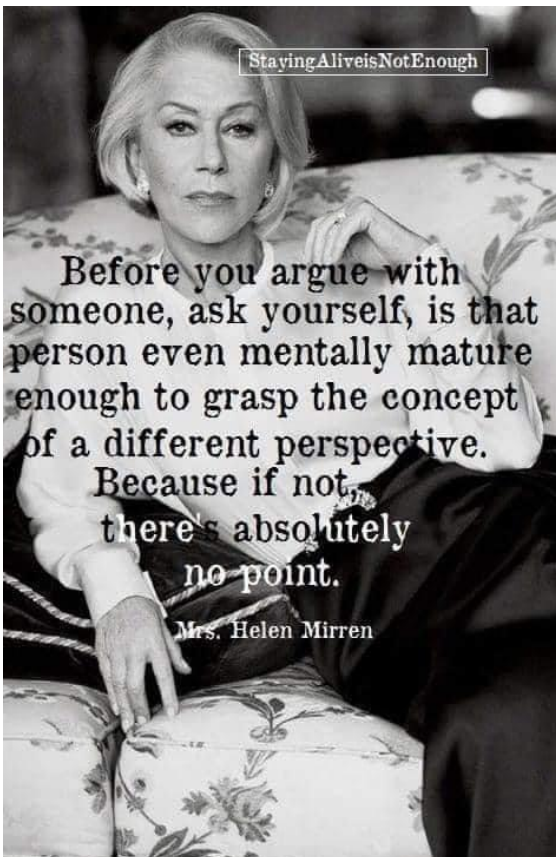
DURING THE MIDDLE AGES THEY CELEBRATED THE END OF THE PLAGUE WITH WINE AND ORGIES DOES ANYONE KNOW IF THEY HAVE ANYTHING LIKE THAT PLANNED WHEN THIS ONE ENDS?

**ASKING FOR A FRIEND*

womenafter50.com



"Welcome back, sir. Are you planning on being our guest for one night only, or will this be your usual extended stay?"



So.....You've been eating hotdogs, chicken nuggets and processed meat all your life. But you won't get the shot, because you don't know whats in it ! Aren't you a special kind of stupid !



I feel bad for parents nowadays. You have to be able to explain the birds & the bees... The bees & the bees... 🙄🙄🙄 The birds & the birds... 🙄🙄🙄 The birds that used to be bees... 🙄🙄 🧑🧑 The bees that used to be birds... 🧑 The birds that look like bees... 🧑 Plus bees that look like birds but still got a stinger!!! 🙄🙄🙄🙄🙄



My generation will start a revolution!



My ass. Your generation can't work 40 hours in a week, can't decide whether you're a boy, a girl or "other" or can't eat meat without crying.

I asked the waitress for a quickie and she slapped me. The old woman next to me said, "It's pronounced 'quiche', dear."

Rotary Events Calendar	Date
<ul style="list-style-type: none"> • October 'Lift the Lid' • Be Fit for you. Mental Health Fundraiser • AGM • Rotary spring Golf Day, Tamworth Golf Club, Mixed Stableford, shotgun start, \$40 includes lunch, Book at the pro shop. • Christmas Party • Science and Engineering • District Conference • Waste Warriors Expo • RYLA 	<ul style="list-style-type: none"> • 10 October 2021 • All of October • 8th December 2021 • 11am Friday 12th November 2021 • 27th November 2021 • 14- 18 March 2022 • 18- 20 March 2022 • 25th March 2022 • 29th April 2022 – 7th May 2022

Social Calendar	Date
<ul style="list-style-type: none"> • Post Office Raffles Social Night • Guess Who's Coming to Dinner 	<p>3rd Friday of the Month</p>

The Object of Rotary

The Object of Rotary is to encourage and foster the ideal of service as a basis of worthy enterprise and, in particular, to encourage and foster:

- **FIRST.** The development of acquaintance as an opportunity for service;
- **SECOND.** High ethical standards in business and professions; the recognition of the worthiness of all useful occupations; and the dignifying of each Rotarian's occupation as an opportunity to serve society;
- **THIRD.** The application of the ideal of service in each Rotarian's personal, business, and community life;
- **FOURTH.** The advancement of international understanding, goodwill, and peace through a world fellowship of business and professional persons united in the ideal of service.

Tamworth - First Light

Meets each Wednesday

6:30 for 7:00 am

West League Club

Chillingworth Room

Phillip Street

South Tamworth

Club Officers and contact details

[President — Marina Hearne](#)

[Secretary — Sue O'Connor](#)

[Treasurer — Michael Smith](#)

Other Clubs meet:

Monday PM – Tamworth West

Tuesday PM – Tamworth

Wednesday PM - Calala

Friday AM - Sunrise

Seven Areas of Focus



Rotary Grace

O Lord and giver of all good

We thank Thee for our daily food

May Rotary Friends and Rotary ways

Help us to serve Thee all our days

The Four-Way Test

of the things we think, say or do

1. Is it the TRUTH?
2. Is it FAIR to all concerned?
3. Will it build GOODWILL and BETTER FRIENDSHIPS?
4. Will it be BENEFICIAL to all concerned?

	13 th October	20 th October	27 th October
Topic Location	Zoom	Zoom	Meeting Chillingworth, Wests Leagues
Guest speaker			TBA
Sergeant			Barry Biffin
Corporals (fortnightly)			Leonard Brian Logan
Meeter & Greeter			Philip Lyon
Door Team			Anne Jacob TBA
President Assist			Steve Massey
Visitor Assist			Louise Mathews
Welcome			Denis Maunder
Bulletin Notes & Introduction			Michael O,Connor
Vote of Thanks			Glen McIntosh
POST OFFICE RAFFLE – FRIDAYS - 6:00 – 7:00PM			
15th October	22nd october	29th October	5th November
Brian Logan Brian Thompson	Denis Johnson Brian Thompson	Denis Johnson Ian Howle	Ian Howle Philip Penman
BIRTHDAYS, ANNIVERSARIES AND INDUCTIONS			
Members Birthdays	Elizabeth Gill 17 th October, Phillip Lyon 14 th October, Bret White 14 th October		
Partners Birthdays	Pauline Davidson wife of Dick Davidson 15 th October		
Anniversaries			
Club Induction			
Attendance	74%		
Make-Ups			
Visiting Rotarians	Raymond McLaren (Guest Speaker)		
Visitors	Marilon Ison		
Heads & Tails			
Raffle			

Now you have read the roster, make sure you read the rest of the bulletin!! Marina 🌐