



Young
Engineers
Australia

Young Engineers Australia Regional Update

Monday December 19, 2022



Nicole Brown – Australian Representative
YEFL Committee

Engineers Australia (EA)

Our Purpose

To advance the
science and
practice of
engineering for
the benefit of the
community.





Advancing society through great engineering

... through focused action and collaboration to deliver maximum impact and benefit for ...

the members, the profession and the Australian community

... by pursuing a specific suite of strategies ...

STRATEGIC PRIORITIES

A strong professional standards framework

Supportive pathways for engineering cohorts

An effective volunteer network

Leadership on behalf of the profession

Increasing recognition of engineering value to the community

STRATEGIC OUTCOMES

Contemporary future-fit engineering professionals

A more diverse, engaged engineering cohort

Increased impact and value of the membership network

Engineering leadership and influence for society benefit

Recognition of the Value of Engineering

... achieved through an integrated suite of initiatives over the medium term ...

- Building recognition of the value and status of Chartered engineers
- Enabling progress in world-class standards for practice
- Ensuring EA members practice ethically and competently

- Elevating the attraction of engineering to our youth
- Providing flexible education pathways for people to join and grow in the profession

- Focusing the expertise and experience of members on key challenges for society and the profession
- Sharing new knowledge and practices that advance great engineering
- Engaging people interested in engineering with the EA community

- Promoting engineers as solvers of society's current major challenges
- Escalating the influence of EA in big societal issues
- Developing relationships and approaches to lead on over-the-horizon challenges

- Creating and promoting a strong contemporary identity for engineering
- Demonstrating how engineering advances the economy and society
- Recognising engineering excellence and leadership in the community

... and delivered through an annual plan of actions ...

- Enhanced Professional Standards Framework
- Updated Areas of Practice

- Curated CPD
- Micro-credentialing
- Program endorsement frameworks
- Engineering workforce credentialing

- Future Now Program
- Enhancing governance and leadership
- More inclusive membership

- Climate Change Action Agency
- Brand campaign targeted at key decision makers
- New advocacy initiatives

- Public awareness campaign
- Heightened public recognition of engineering leaders and excellence awards

... underpinned by modernisation and strengthening of our capabilities, operating systems, technologies and governance to be...

Adaptive, and future ready business with a diverse, empowered and capable workforce...

... enabled by ...

- Digital transformation

- Data analytics

- Strengthening member and customer focus

- Evolving our culture and capability

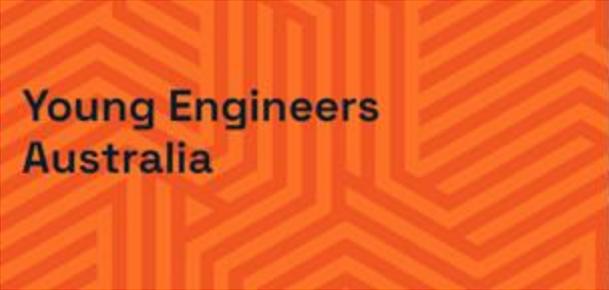
- Cost and pricing model for revenue sustainability

What is Young Engineers Australia (YEA)?

- YEA is currently the single largest sub-group within EA, with a membership base comprising of over 40,000 young engineers nationally.
- The group has now been established for over 25 years, with a local committee in each of EA's 9 divisions.
- A young engineer is considered to be any member of EA that is currently completing or has completed a tertiary (Uni or TAFE) engineering qualification, and is between the ages of 18 and 35.

Young Engineers Australia – our purpose

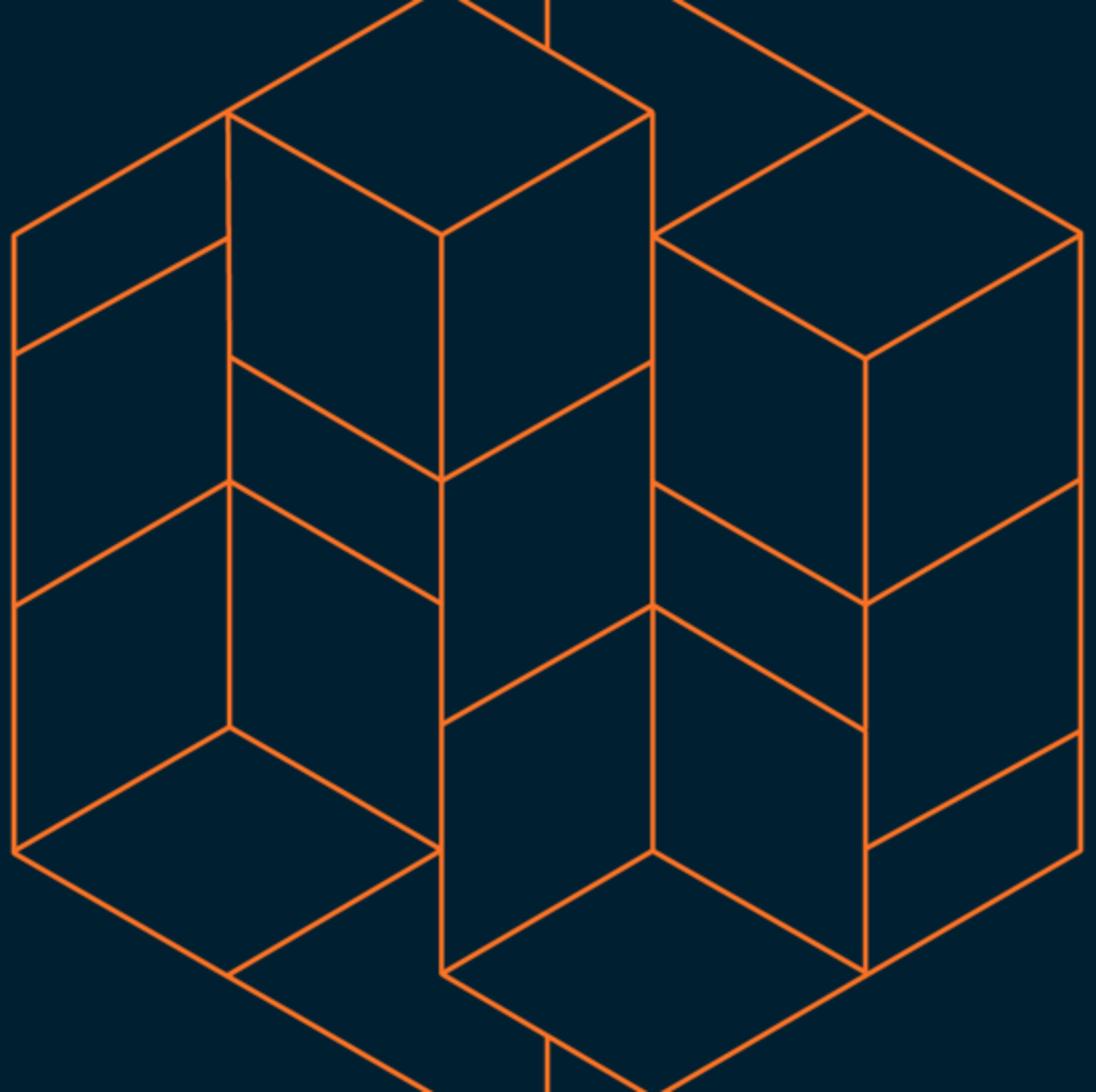
- To be the voice and advocate of the value, opportunity and for the empowerment, of young engineers.

The logo for Young Engineers Australia features the text "Young Engineers Australia" in a bold, black, sans-serif font. The text is positioned on the left side of a horizontal rectangular area. The background of this area is a vibrant orange color with a complex, repeating geometric pattern of interlocking lines that create a sense of depth and movement.

**Young Engineers
Australia**



YEA Branch Updates



South Australia

YEA SA 2022:

- Executive Breakfast
- Workplace Survival Guide
- Sustainability Workshop
- End of Year Recap

- Monthly Mixer
- Coffee Club



Queensland



Tasmania

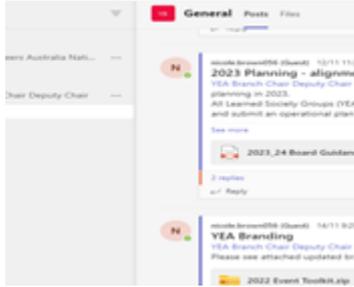
- Introduced new casual meeting structure to focus on growing YEA community
- Successful events - Project in the pub & Quiz night
- Event Brainstorming session to make plans for 2023
- Advocacy from EA
- Focus on promoting YEAT within the community
- Draft Event Calendar for 2023



YEA National Committee Updates



Branch Support



Teams Channel

- Audience: YEA Branch Committee members
- Engagement: opportunities for branch participation, new resources, sharing experiences
- 2023: continued use



Town Halls

- In 2022: 2x internal Townhall and 2x External Townhall
- Audience: Internal = all branch committee members, External: any supporter/member of YEA
- 2023: will continue in current format



Meeting Attendance

- National Committee member attendance to branch committee meetings to provide an update and answer any questions
- Attendance to approx. 12 meetings across the year

Research and Development



01

Qualitative Data

Completion of trial empathy map discussion. Key takeaways include:

1. What are existing job trends in the engineering industry?
2. Emphasis on climate change and sustainability.
3. What are some new perspectives young engineers can bring to the industry?
4. What does it feel like being in a non-traditional engineering role?

02

Quantitative Data

Completion of gender difference in engineering courses completed in TAFE as well as migrant engineering information.

Discovery of Graduate Survey data online. Have processed parts of the short, medium and long terms employment rates for engineering with undergraduate degrees.

03

Qualitative Data - Future

Complete external empathy map - keep an eye out for an invite to this! Conducting a survey asking to see what young engineers what to see from YEA and EA.

04

Quantitative Data - Future

Complete processing on newly acquired graduate survey data and deep diving into the engineering sector.

National Opportunities



01

LinkedIn

Since February 2022, the LinkedIn group has grown by 2,056 members, now over 10,000 members and growing

The main focus for this year has been to share the events, achievements and activities across the Young Engineers Australia Network.

We continue to encourage members of the group to contribute if they feel they would like to, by sharing podcasts, articles, events that relate to all areas of engineering

02

Chartered Pathways

- Development of chartered pathways concepts

- Socialisation with the EA Executive

- Development of Survey to establish 'need' within Graduate cohort

- Review of existing programs available to Graduates

- Attendance at Micro-Credentials Sessions

03

International Webinars

Psychological Safety in the Workplace

Psychological safety a hot topic at the

moment so focus of webinar with WFEO

Speakers included

Felicity Furey, Robert Moolman, Chris Sizemore and Andrea Martin

Great feedback was received and for those that missed it can still check it out (link to be shared)

04

Climate Action

- Input on EA's proposed Climate Smart Engineering Initiative (CSEI) framework and activity plans.

- Input to EA Climate Change Position Statement Guideline.

- Climate Smart Engineering (CSE) engagement sessions and planning of 2023 conference

- Invitation to sit in (virtually!) on the UN's Global Treaty intergovernmental negotiating committee (INC-1) to develop an International legally binding instrument on plastic pollution, including in the marine environment which occurred from 28 Nov 22 to 2 Dec 22. - The report and outcomes will be shared soon!

YEA in 2023

Purpose:		To be the voice and advocate of the value, opportunity and for the empowerment, of young engineers. to advance society through great engineering	
Strategy Priorities	Strategic Outcomes	Project/activity	Audience
Supportive pathways for engineering cohorts	A more diverse, engaged engineering cohort	Pathways to chartered	YE post graduate position
		Liaison with Student/Lead team	
		Case comp./CAD/Grad Hack	Student/Grad YE
		TLM outreach	Wider community
		Research and Development	All EA
An effective volunteer network	Increased impact and value of the membership network	Linkedin and social media	YE
		YEFL - International Representative	All EA
		Congress Representative	All EA
		Branch support/community liaison	
		Inc. Townhall - internal	YE Branches
Increasing recognition of engineering value to the community	Recognition of value of engineering	Climate Action	YE
		Award Review	All EA
		Townhall - external	All EA

WORK IN PROGRESS



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