



**HELD IN TOWNSVILLE THIS MONTH:**

# SECONDARY MATHS EDUCATOR EVENT

Queensland Association of Mathematics Teachers (QAMT)

State Conference 2023 - **Townsville Satellite Event**

**Friday June 23** (online) + **Saturday June 24** (held at James Cook University)

*An opportunity to meet with other educators to explore strategies and tools for teaching mathematics. How can we **engage** students, AND build **curiosity** and **resilience** in the maths classroom? Includes:*

- ✓ Catering and drinks, giveaways and networking opportunities
- ✓ Access to all speakers on the day (Saturday) + access to the Virtual day (Friday) and recorded sessions
- ✓ **5 hours of Professional Development (13 hours if participants register for both days)**

Go to [qamt.qld.edu.au/events-calendar/](http://qamt.qld.edu.au/events-calendar/) to learn more and to

**REGISTER NOW**

Additional queries:

[grace.jefferson@jcu.edu.au](mailto:grace.jefferson@jcu.edu.au)



**SCAN ME**



Townsville

Are you in the Townsville region?  
Connect with your local QAMT  
branch!

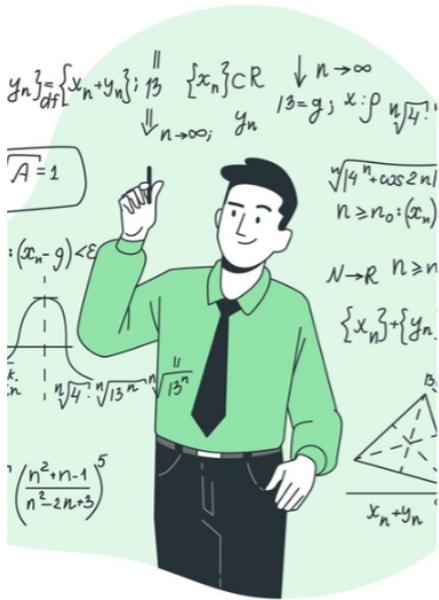


# Program of events

Schedule for the day includes:

- **Key-Note speaker Professor Amie Albrecht** *Getting problem-solving right!* LIVE streamed from Brisbane QAMT
- **Adam Spencer LIVE in-conversation (ZOOM)**
- **Two parallel streams of presenters on the day** – streams for **junior/middle school** and **senior secondary** (40-45 minutes for each presentation or workshop)
- **Catered morning tea, lunch and after conference drinks and canapes**
- **Digital satchels for attendees and showbags** (QAMT, JCU and publisher merchandise)

Time		
8:15 – 8:45am	Arrival and Registration Day 1 F2F	
Welcome	Welcome and acknowledgement of sponsors.	
8:45am – 9:00am	Acknowledgement of Country	
Keynote	<b>Keynote Speaker: Professor Amie Albrecht</b> <i>Getting problem-solving right! (Livestream from Brisbane)</i>	
9:00am – 9:55am	Session 1	
10:00am – 10:40 am	Primary/Middle School	Senior secondary
10:45am – 11:25 am	Session 2	
11:30am – 11:55pm	Primary/Middle School	
Break	Senior secondary	
11:30am – 11:55pm	<b>Catered Lunch</b> and Networking	
Panel	<b>Adam Spencer LIVE in-conversation:</b> A lifetime in nerdery!	
12:00pm – 1:00pm		
Session 3		
1:05pm – 1:50pm	Primary/Middle School	Senior secondary focus
1:55pm – 2:20pm	Break	
2:25pm-3:10pm	<b>Catered afternoon tea</b>	
3:15pm – 3:30pm	Session 4	
From 3:30pm	Primary/Middle School	Senior secondary focus
	Wrap-Up, Thanks + Door prizes!	
	<b>Networking event</b> Drinks and canapés with <b>Tan-Lines Distillery</b>	



## Summary of Presentations – Senior Secondary

**Dr John Eckersley** - Retired Geotechnical Engineer

### *Sugar mill chimney footing – an applied maths illustration*

Mathematical modelling by engineers helps businesses to gain insights into problems and save money. In this presentation, retired Geotechnical engineer Dr John Eckersley outlines the mathematical details used to design pile-supported footings for a tall sugar mill chimney to stop it from blowing over in cyclonic winds. This presentation illustrates the significance of mathematics and physics applied to a real-world engineering problem, including topics from senior Specialist and Methods subjects

**Ms Angela Arlett** - Secondary teacher at Pimlico State High School

### *Supporting the transition to senior*

A brief look into one way of helping to prepare year 10 core mathematics students for the transition into Essential and General Mathematics in senior. The presentation will cover: the alignment between the Australian Curriculum (Junior) and the QCAA senior syllabi, assessment practices, planning and teaching.

## Summary of Presentations – Senior Secondary

**Associate Professor Shaun Belward** - Maths Lecturer and Associate Dean Learning and Teaching for Science and Engineering

### *How can we help each other? Partnerships between secondary maths teachers and JCU.*

The landscape in higher education has changed immensely over the last decade or two. This has forced the university sector to cater to an increasingly broad range of students. Consequently, mathematics prerequisites have evaporated across many of our courses at JCU. We expect many are now questioning the value of studying mathematics in senior. Likewise, many educators might question their role when the work environment is upended like this. In this interactive workshop we seek to understand how JCU can work with teachers of senior mathematics across north Queensland to value add to the learning experience in the mathematics classroom.

**Mr Andrew Neumann** - Mathematics teacher at Ryan Catholic College

### *PSMT - Painfully Subjective Marking Task?*

The Problem-solving and Modelling Task can, for many of us, be a painful experience. At Confirmation events, the PSMT causes the greatest number of issues for confirmers and results in the highest number of movements of the provisional marks. In this session, I will briefly discuss some of the issues surrounding this assessment task, before moving on to share my experience and learnings regarding how to best address some of these issues.

