

SHORT CIRCUIT

Newsletter of the Canberra Mathematical Association INC

Coming Events:

15 February: *Welcome Drinks, 4:30 pm at ACU (Friday, end of Week 2)*

9-11 July. *AAMT conference, Brisbane.*

17 August, *CMA conference*

13 November, 2019—*AGM*

Wednesday Workshops:

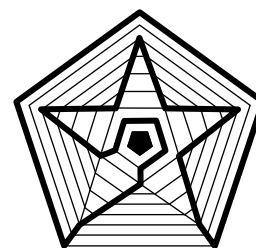
To be advised: possibly moving to Thursdays this year.

NEWS AND COMMENT

The purpose of a Short Circuit edition at this time of the year, when everyone is close to packing up and leaving for a break, is to let readers know about a few up-coming dates and events that may need a timely response.

As well, we can announce the new CMA committee for 2019, elected at the AGM in November. (See page 4.)

While the more elderly members of the committee are not yet excessively wearied by age, it is very good to see some genuinely young people stepping up to help run this professional association. There must always be a succession.



VOLUME 9 NUMBER 5

DEC 2018

MEMBERSHIP

CMA memberships expire on **31 Dec. each year**

A membership application form can be accessed from the CMA website:

<http://www.canberramaths.org.au>

CMA membership includes automatic affiliation with the Australian Association of Mathematics Teachers and a full-year subscription to a AAMT journal.

Members are entitled to attractive rates for CMA professional development events and the annual conference.

CMA members may attend conferences of other AAMT affiliates, MAV, MANSW, etc. at member rates.

Note: Receipts for membership and other payments are sent out by e-mail. If you have paid for your membership but have not received a receipt or if your AAMT journal(s) have not been arriving, please advise CMA.

**CANBERRA
MATHEMATICAL
ASSOCIATION**

PUZZLES

1. Alex Bellos publishes a puzzle every two weeks in the Guardian. A recent fascinating example concerns kinship rules in an Aboriginal community. Read about it [here](#).
2. A certain quadrilateral has sides of 4, 4, 4 and 5 units. What values can the angles have and what distinct cases should be investigated to decide this?

IM²C

12 March – 5 April 2019

The International Mathematical Modelling Challenge (IM²C) is a team-based mathematical modelling competition for Australian secondary students.

Operating in teams, comprising up to four students from the same school, participants must work collaboratively to solve a problem (set globally) by devising and applying an original mathematical model.

Constrained to a period of five consecutive days, teams unpack the given problem, hypothesise, test, and develop a working solution, before preparing and submitting a report on their solution to the Australian judging panel. The best two solutions then progress to compete against the other participating countries on an international level.

More information at immchallenge.org.au

Students from schools in Canberra did exceptionally well in the 2018 Challenge.

CONFERENCES

15TH INTERNATIONAL CONFERENCE OF THE MATHEMATICS EDUCATION FOR THE FUTURE PROJECT

Theory and Practice: An Interface or A Great Divide?

4-9 August 2019, Maynooth University, Kildare, **Ireland**

The Mathematics Education for the Future Project was founded in 1986 to develop innovation in mathematics, statistics, science and computer education. Since 1999 there have been 14 conferences throughout the world. The conferences are renowned for their friendly and productive atmosphere and attract many of the movers and shakers in education world-wide.

Download the first announcement and call for papers: <http://directorymathsed.net/public/Ireland/IrelandConferenceFirstAnnouncement.docx>

For queries, email: alan@cdnalma.poznan.pl

MERGA 2019

30 June 2019 – 4 July 2019 Curtin University, Perth, WA. The conference will also feature a Teachers' Day on the 29 June 2019.

The theme of the 2019 conference is Research Impacting Classroom Practice.

<http://www.promaco.com.au/events/MERGA/>

POSITIVE MATHEMATICS FOR INDIGENOUS STUDENTS (PM4IS)

8 – 9 March 2019, Trinity Bay State High School, Cairns, Qld

Adding communities, Multiplying Success.

The event has a focus on mathematical processes, STEAM, relationships, and student empowerment.

The keynote speakers will be *Dr Chris Matthews* (ATSIMA) and *Professor Pauline Taylor-Guy* (ACER).

Friday, 8 March: creating connections. Saturday, 9

March: a visit to Yarrabah, an Aboriginal community.

www.pm4is.com

SHORT CIRCUIT

AAMT 27TH BIENNIAL CONFERENCE

9-11 July 2019, South Brisbane, Qld, Australia.

Theme: ['Why Maths? Inspiration beyond the classroom'](#).

AAMT warmly welcomes participation from all teachers, education leaders, policy and decision makers, and mathematics practitioners. We are looking forward to a stimulating and practical discussion that will further mathematics education in Australia.

Offers to present are due by 18 February 2019.

For registration and information visit the [website](#).

reSOLVE & MATHS 300

[AAMT](#) provides workshops to support Maths 300 and Resolve. If your school would like to inspire your teachers and students with Maths by Inquiry, contact Matt Skoss (msskoss@aamt.edu.au) for information about professional learning.

PRE-SERVICE TEACHER AWARDS

At the 2018 AGM the Canberra Mathematical Association made awards to graduating pre-service teachers Yuka Saponara (UC), Emma Smith (UC), Monique George (ACU), and Nicola Di Bartolo (ACU). (They are pictured on page 5.)

YOUR VIEWS IN SHORT CIRCUIT

Short Circuit would like to inform readers about events, initiatives and changes that are happening in your school and in education more broadly. Your comments, observations, opinions and feedback are welcome. Communicate with us through the CMA email address: canberramaths@gmail.com

ACTUARIAL SCIENCE MOOC

The Australian National University (ANU) is running a special version of its popular **Introduction to Actuarial Science** course for Year 11/12 students in Australia over a flexible time period within Term 4 2018 to Term 1 2019. It is a Massive Open Online Course (MOOC) and is FREE

The purpose of the course is to provide students considering an actuarial career with an interactive introduction to the profession. Through it, high school students who are strong in maths can find out whether an actuarial degree would be a good university program choice for them.

Click [here](#) for more information, or contact adam.butt@anu.edu.au.

GLOBAL MATH PROJECT

Exploding dots and more—

James Tanton has written an essay explaining the history and achievements of the project since 2017. Read it [here](#).

CSIRO—STEM PROFESSIONALS

STEM Professionals in Schools is a national volunteer program that facilitates partnerships between schools and industry to bring real STEM (Science, Technology, Engineering and Maths) into the classroom.

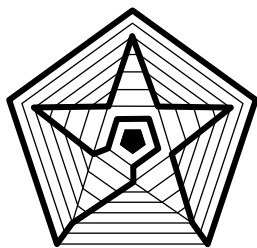
There is an experienced national team with Project Officers in all States and Territories in Australia. [Get in touch](#) to find out how you can join the program.

AAMT—RESOURCES CATALOGUE

Download the catalogue of all the resources sold by AAMT from:

[AAMT ResourcesCatalogue 2018.pdf](#) 1.65 MB

CMA members can order items from the AAMT catalogue at a discount.



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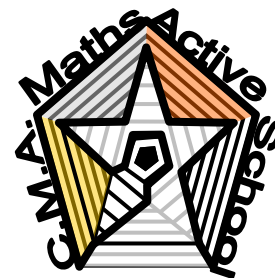
E-mail: canberramaths@gmail.com

We're on the Web!

<http://www.canberramaths.org.au/>

THE 2019 CMA COMMITTEE

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	Aruna Williams	Mount Stromlo High School
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	Steve Thornton	Australian Academy of Science
	Belinda Fox	Saint Mary MacKillop College



Find us on Facebook

ABOUT THE CMA

The Canberra Mathematical Association (Inc.) is the representative body of professional educators of mathematics in Canberra, Australia.

It was established by, among others, the late Professor Bernhard Neumann in 1963. It continues to run - as it began - purely on a volunteer basis.

Its aims include

- * the promotion of mathematical education to government through lobbying,
- * the development, application and dissemination of mathematical knowledge within Canberra through in-service opportunities, and
- * facilitating effective cooperation and collaboration between mathematics teachers and their colleagues in Canberra.

Short Circuit is edited by Paul Turner.

ISSN 2207-5755



Left to right:
Yuka Saponara (UC),
Nicola Di Bartolo (ACU),
Monique George (ACU),
Emma Smith (UC)