SHORT CIRCUIT

Newsletter of the Canberra Mathematical Association INC

Coming Events:

9-11 July. AAMT conference, Brisbane. 17 August, CMA conference 13 November, 2019—AGM

PROFESSIONAL DEVELOPMENT EDITION

This is a special issue of Short Circuit, mostly to let you know about some imminent PD opportunities.

The CMA conference scheduled for 17 August is advertised on page 5. Two keynote speakers have been engaged, Dr Jane Watson and Dr Amy Albrecht. Both are expected to run workshops as well as giving their keynote addresses.

Calls for workshop presenters have gone out. On page 6 there is a call for anyone who has not previously been a presenter at a CMA conference to offer a workshop.

The AAMT biennial conference will be held in Brisbane this year, running from 9-11 July. See the full-page advertisement on page 7. Wednesday Workshops: Term 2 week 5: 29 May reSolve (primary) 1 August, College PD Term 4: AMT

Wednesday Workshop: 29 May 4-6 pm at the Headley Beare Centre. Kristen Tripet will be presenting some reSolve resources, aimed at Years 4-8. Kristen will show how there are development opportunities across those years and hence that the resources also allow for differentiation in the classroom.

For **college** teachers: Thursday 1 August at Hawker College, 4-6 p.m. Sheikh Faisal will demonstrate materials that have been developed at the college to help answer the question 'When are we ever going to need this?' See page 2.



VOLUME IO NUMBER 3

MAY 2019

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 email. 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

No one has done this yet. Can you find three numbers, positive or negative, that when cubed add to 42?

Hint: You will need numbers at least one of which has absolute value greater than 10¹⁶.

EXTERNAL SITTING OF AMC-I AUGUST

In Term 3, Chris Wetherell will be hosting an external sitting of the Australian Mathematics Competition for students in the Canberra region who might otherwise miss out on the opportunity.

If your school is already planning to run the competition, please disregard!

If you are not sure, there is still plenty of time: registrations are open until 21 June (paper) or 25 July (online). More information is available at <u>https://</u> <u>www.amt.edu.au/australian-mathematics-</u> <u>competition</u> or by contacting <u>amc@amt.edu.au</u>.

If you know that your school will not be offering the AMC this year, an online expression of interest form for the external sitting is available <u>here</u>.

Please distribute this information to parents/ guardians as you deem appropriate.

AAMT AND AMT PARTNERSHIP

The Australian Mathematics Trust has signed an Memorandum of Understanding with the Australian Association of Mathematics Teachers. <u>Read more</u>

AAMT COMMUNITIES

There are five <u>Connect with Maths</u> online communities teachers can join.

Make it count with Indigenous Learners community

Early Years Learning in Mathematics community

Maths in Action (Applications and Modelling) community

Engaging All Students (Catering for Diversity) community Digital technologies for Mathematics community

TERM 2 COLLEGE PD

A workshop at Hawker College with Sheikh Faisal will look at ways to promote successful mathematical learning for all students, with an emphasis on Mathematical Methods Units 1 & 2.

Sheikh speaks of linking mathematical ideas to practical representations, of connecting the mathematical discourse with its historical and practical contexts, of encouraging reasoning and problem solving, and of promoting understanding above procedural knowledge.

The workshop will be held on Thursday 1 August from 4-6 p.m. at Hawker College, 51 Murranji Street, Hawker.

Cost: Free for CMA members, \$20 for non-members.

ANU MATHS DAY

9:00AM-4:00PM 4th June, 2019

Australian National University

Registration is school-based. Each school can only enter 1 registration for a team of 5. If a second team registration is desired, it will be added to the waiting list.

RESOLVE & MATHS 300

<u>AAMT</u> provides workshops to support Maths 300 and reSolve.

AAMT-RESOURCES CATALOGUE

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

<u>AAMT_ResourcesCatalogue_2019_web.pdf</u> 1.65 MB

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

SHORT CIRCUIT

CONFERENCES

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/

AAMT 27TH BIENNIAL CONFERENCE

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

Theme: <u>'Why Maths? Inspiration beyond the class-</u> room'.

The AAMT (QAMT) 2019 conference has a focus on inspirational mathematics teaching, collaborating with our communities and the future of mathematics education.

Key speakers include Dr Alan Finkel, Australia's Chief Scientist; Dr Cathy Foley, CSIRO Chief Scientist; James Tanton (MAA - US); Dr Toh Tin Lam (NIE – Singapore); Dr Catherine Attard; and other representatives from education, government and industry (yet to be announced).

For registration and information visit the website.

15TH INTERNATIONAL CONFERENCE OF THE MATHEMATICS EDUCATION FOR THE FUTURE PRO-JECT

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: <u>http://directorymathsed.net/public/Ireland/</u> <u>IrelandConferenceFirstAnnouncement.docx</u> For queries, email: <u>alan@cdnalma.poznan.pl</u>

CMA 2019

17 August, ADFA. See pages 5 and 6.

Keynote speakers:

Dr Amie Albrecht is a Senior Lecturer in the School of ITMS and a researcher within the Centre for Industrial and Applied Mathematics, University of South Australia

Amie's research is motivated by industry-inspired challenges, mainly in Operations Research with applications to transport problems, and is funded by ARC Discovery and Linkage schemes and Cooperative Research Centres.

In her teaching, Amie is particularly interested in developing mathematical thinking and problemsolving skills.

Dr Jane Watson is Professor Emerita in the Faculty of Education, University of Tasmania., where she carries out research, mainly in the area of Statistics Education.

MANSW

2019 MANSW annual conference. Mathematics: The Greatest Show.

Crowne Plaza Terrigal, 20-22 September. The keynote speakers will be Matt Parker and Doug Clarke. Submission of abstracts for presentations is now open. <u>See the website</u>.

MAV

Making+Connections

The Mathematical Association of Victoria invites you to the 56th Annual Conference (MAV19) in Melbourne from Thursday 5 – Friday 6 December 2019

ICME 2024

Sydney



NEWSLETTER OF THE CANBERRA MATHEMATICAL ASSOCIATION INC

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THE 2019 CMA COMMITTEE

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	Andrew Wardrop

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.

ACT Education Directorate
Radford College
Mount Stromlo High School

Saint Mary MacKillop College

Saint Mary MacKillop College Campbell High School University of NSW Canberra Australian Catholic University Canberra Grammar School

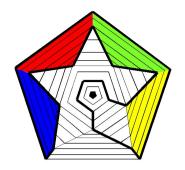




Find us on Facebook

Short Circuit is edited by Paul Turner.

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CANBERRA MATHEMATICAL ASSOCIATION 2019 MATHEMATICS CONFERENCE Optimisation:

Making the Most of Maths

Date: Saturday 17 August

Venue: Australian Defence Force Academy

Registration: \$50 member

\$25 concession

\$70 non-member

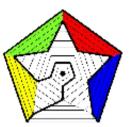
Sessions of talks/workshops for all levels

Great prizes, Trade stalls, Maths merchandise

Registration = All food + President's drinks

Details/registration: <u>http://www.canberramaths.org.au</u>

Please register soon so we can cater for everyone.



CANBERRA MATHEMATICAL ASSOCIATION

2019 MATHEMATICS CONFERENCE

Optimisation Making the Most of Maths

Saturday 17 August Australian Defence Force Academy

CALL FOR SPEAKERS Primary to College

Contact Valerie Barker at vnwb@internode.on.net

for more information

Speaker information also at

canberramaths.org.au



The 27th Biennial Conference of The Australian Association of Mathematics Teachers

9—11 July 2019 Brisbane

AAMT National Conference

The biennial AAMT national maths education conference will be held this year in Brisbane from July 9 -11.

We are pleased to announce an exciting provisional <u>program</u> of more than 150 sessions, for early years, primary and secondary teachers from across Australia and overseas.

Early year and primary topics focus on play and engagement in maths, use of tools and materials to build the interest and confidence of children, and developing strategies to lay the foundations for further learning.

Upper primary and secondary teachers have an extensive list of presentation topics including those that focus on curriculum, technology and software, modelling and investigations, STEM, problem-solving and classroom strategies.

The program also has a range of speakers who come from industry, ACARA, AITSL and government to present trends, context, pedagogies and inspiring applications of maths.

Finally, our international speakers will talk about learning maths in Singapore (including the use of comics in the maths classroom), China and the US.

AAMT looks forward to welcoming all schools in Canberra to the conference <u>www.aamt.edu.au/whymaths</u>

Group discounts are available. Please contact the AAMT office events@aamt.edu.au

Friday Masterclasses

Conference delegates and non-delegates can book in for a post-conference Friday Masterclass (July 12). Masterclasses include ReSolve, visible learning, online platforms, the psychology of learning, digital technology, flipping classrooms, modelling aerodynamics and Lego. Further details are available <u>here</u>.