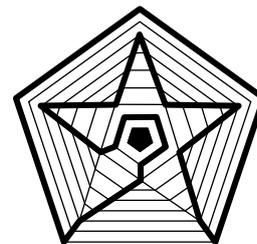


SHORT CIRCUIT



Newsletter of
the Canberra Mathematical Association INC

Coming Events:

May 2 CMA Committee meeting, at AMT
June 6 CMA Committee meeting at Kaleen Primary
August 20 CMA Conference
October 27 AGM

Wednesday Workshops:

Term 2: Mike Clapper, *Algorithmic Thinking*
11 May, 4-6 p.m., Kaleen Primary School
1 June, 4-6 p.m., Namadgi School

VOLUME 7 NUMBER 2

APRIL 2016

MEMBERSHIP

NEWS AND COMMENT

The first of the Wednesday Workshop professional development sessions for 2016 is scheduled for May and June—one in the north and one in the south.

Mike Clapper who heads the Australian Mathematics Trust will present a workshop explaining the place of *algorithmic thinking* in the classroom, with a practice component for participants.

See the back page of this newsletter for more details.

Planning for this year's conference is well under way. There will again be a change of venue from last year. Details are yet to be announced.

Contact Peter McIntyre at p.mcintyre@adfa.edu.au or Valerie Barker at valerie.barker@ed.act.edu.au for current information or to offer to be a presenter.

Participation in conferences is a way to encounter stimulating ideas and to interact with the broad team of education colleagues. As well as our own annual conference, readers might consider the STEMS colloquium in June this year and the NZAMT conference in October, 2017.

One CMA member that we know of, Bruce Ferrington, will be attending the ICME conference in Hamburg in July and, in Adelaide also in July, AAMT is running its 50th anniversary celebration conference. (See below.)

Details of the NZAMT and STEMS events may be found on page 3.

DIRECTIONS

The conference to celebrate AAMT's fiftieth birthday will be held in Adelaide on 7 & 8 July. For details and to register, please go to <http://tiny.cc/AAMT50directions>.

Join or renew your membership for calendar year 2016.

A membership application form can be accessed from the CMA website: <http://www.canberramaths.org.au/index.html>

CMA membership includes automatic affiliation with the Australian Association of Mathematics Teachers and a free 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 membership secretary, Paul Turner, or another committee member.

**CANBERRA
MATHEMATICAL
ASSOCIATION**

CMA MERCHANDISE

Contact Elaine Hooke on 0407 788 493 or e-mail cmamerchandise@gmail.com for the following items:

Canberra Mathematics Association Navy Polo shirts \$36 with logo, Pi Earrings \$15, Easy as Pi badges and Pi pins \$8.

Free delivery to your ACT school. Elaine can attend your Maths staff meeting.

AAMT

AAMT website: <http://www.aamt.edu.au/>

When you join the Canberra Mathematical Association you become a member of the Australian Association of Mathematics Teachers.

Check the AAMT website for information about the range of available online resources, webinars, communities, books and other useful things.

Your journal subscription, that comes with your CMA membership, runs for a full year from the date when you joined CMA or renewed your membership.

AAMT—CONNECT WITH MATHS

There are now five *Connect with Maths* 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

Subscription to these communities is FREE.

If you would like to join one or more communities, click on the link.

CONTRIBUTE TO SHORT CIRCUIT

Short Circuit welcomes your contributions and your feedback. Communicate with us through the CMA email address:

canberramaths@gmail.com

reSolve-MATHEMATICS BY INQUIRY

reSolve is a bold new national program to promote innovative and engaging approaches to teaching mathematics in Australian schools. It is managed by the Australian Academy of Science in collaboration with the Australian Association of Mathematics Teachers, and funded by the Australian Government Department of Education.

The project is a key component in the National STEM School Education Strategy 2016-2026, endorsed by Australian Education Ministers in December 2015. It furthers the goals of ensuring that all students finish school with strong knowledge in mathematics, and ensuring that students are inspired and equipped to take on more challenging STEM subjects, including intermediate and advanced mathematics in the senior school.

reSolve will develop professional resources and classroom resources for every year level from F to 10. By the end of October 2016 there will be classroom resources for every year level from 5 to 8, and the first three professional resources. Others will be rolled out progressively to June, 2018. A key component of the resource development process is school trialling. Our three very talented writers, Kristen Tripet, Bruce Ferrington and Michael Klinkert, are testing ideas in local classes, but always looking for more.

reSolve aims to engage the profession through more widespread trialling from semester 2 this year, as well as by recruiting Champions in every state and territory. The Champions will ensure sustainability of the project beyond the formal finish date of June 2018. The trialling process will be coordinated by Matt Skoss, who is the National Manager of Engagement working through AAMT, assisted by an Outreach Officer working on an as-needed basis through CMA.

The writing team welcomes your involvement at any stage, and Matt would love to hear from you if you wish to take an active role in trialling in semester 2.

Contact details:

Steve Thornton, Executive Director:
steve.thornton@science.org.au

Matt Skoss, National Manager of Engagement:
msskoss@aamt.edu.au

SHORT CIRCUIT

NZAMT BIENNIAL MATHS CONFERENCE

Back to the Future

Monday 3 Oct – Thursday 6 Oct, 2017,
Christchurch

This NZAMT conference will challenge teachers to re-vamp past practice, reflect on current pedagogy and revive our passion for what is to come. We aim to leave you brimming with excitement to get back to your classes, refreshed and full of classic, core and novel lessons and ideas.

The programme will be shaped up in the coming months, however in the meantime – please diarise the above dates and we will send the details for Call for Abstracts shortly. Our website is www.nzamt2017.com

If you would like further information, please contact marg@conferenceteam.co.nz or phone 03 359 2614

[This looks like a NZ number. Ed.]

NATIONAL COLLOQUIUM - STEMS

Putting **Statistics** into **STEM** in the Data Age

The Statistical Society of Australia, via its Statistics Education Section, is developing a platform for the transformation of Statistics Education in Australia at school and at university, in response to an increasingly massive demand for statisticians and an equally massive shortfall in supply.

WHAT: Two-day colloquium and workshop for primary-secondary-tertiary educators, government and industry leaders and all interested parties

WHEN: 2 – 3 June, 2016

WHERE: University of Technology Sydney

Registration: *Early Bird \$84 (closes 30 April).*

NOTE - FREE for primary/secondary school teachers (still must register)

Please consider the program at STEMS2016.com, which includes speakers & representatives from:

- Harvard University
- Office of Prime Minister and Cabinet
- Commonwealth Bank of Australia
- Qantas
- ACARA, ACEMS, ABS, AMSI, NSW BOSTES, SSA

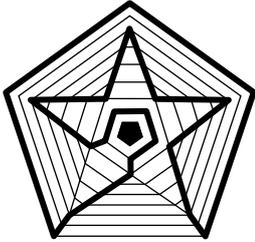
and will include a Panel Discussion session including Q&A floor discussion, followed by exploration of ideas and a workshop to develop and initiate a plan of action for progressing Statistics education in Australia.

The event will inform and engage primary education, secondary education, tertiary education, government and industry leaders and all interested parties about the need to re-imagine Statistics curricula for K-12, undergraduate and postgraduate degrees in data-dependent disciplines to create the next generation of Statistics and Data Science graduates, and initiate and commence an action plan.

Registration and program details are now available at STEMS2016.com.

- Primary and Secondary School Teachers attend for FREE, but must still register.
- Other attendees:
 - Early Bird \$84: closes 30 April 2016.
 - \$120 thereafter

Please also consider the **FREE pre-colloquium seminar** 1 June 2016 at UTS thanks to the NSW Branch Statistical Society. **Speaker:** Dr Peter Howley, see <https://stems2016.com/pre-colloquium-seminar/>



**NEWSLETTER OF
THE CANBERRA MATHEMATICAL
ASSOCIATION INC**

PO Box 3572
Weston ACT 2611
Australia

E-mail: canberramaths@gmail.com

We're on the Web!
<http://www.canberramaths.org.au/>

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.

THE 2016 CMA COMMITTEE

President	Bruce Ferrington
Vice Presidents	Bronwyn Welch Sue Wilson
Minute Secretary	Theresa Shellshear
Treasurer	Michael Klinkert
Membership Secretary	Paul Turner
Councillors	Andy Wardrop Heather Wardrop Patricia Tandy Peter McIntyre Elaine Hooke Valerie Barker James Squires Maggie Quigley Kylie Robson Mike Clapper Jo McKenzie

Maths by Inquiry
Canberra Grammar School
Australian Catholic University
Australian Catholic University
Maths by Inquiry

Erindale College
Lake Tuggeranong College
Melrose High School
University of NSW Canberra

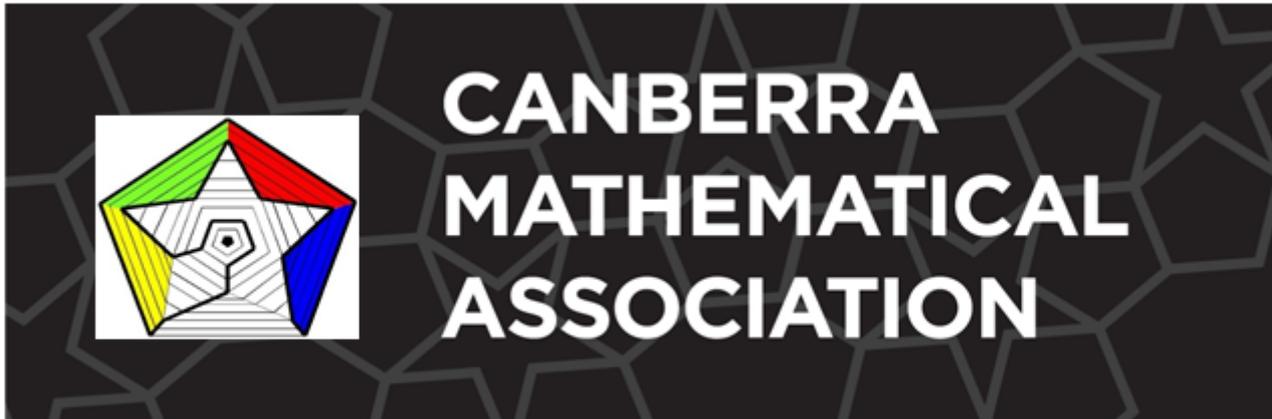
University of Canberra

Kaleen Primary School

Australian Mathematics Trust
Namadgi School



Find us on Facebook



Why all Maths teachers should be promoting algorithmic thinking!

An introduction to coding in the Maths classroom.

This workshop is aimed at primary teachers (Years 3-6) and secondary Maths (or Science) teachers who would like to learn more about the **Algorithmic Thinking component of the Australian Curriculum** and discover ways of incorporating this into their Maths teaching. There will be three parts to the presentation:

1. What is an algorithm and why is this important?
2. Practice with simple algorithms.
3. An introduction to coding and some coding resources.

Please bring a device (laptop or tablet) that can be connected to wifi

Northside:

Wednesday
4:00-6:00
11 May 2016
Kaleen Primary School
Ashburton Circuit
Kaleen ACT 2617

Southside:

Wednesday
4:00-6:00
1 June 2016
Namadgi School
141 O'Halloran Circuit
Kambah ACT 2902

Cost: Members FREE (Two attendees for an Institutional Membership)
Non-members \$20

Please register by emailing maggie.quigley@ed.act.edu.au