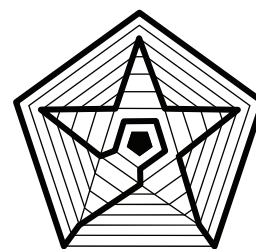


SHORT CIRCUIT



VOLUME 5 NUMBER 4

DECEMBER, 2014

Newsletter of
the Canberra Mathematical Association INC

Coming Events:

Friday, 20 February, 4:30 p.m. Welcome drinks function, ACU
Rose Garden.

August CMA Conference

November 2015 CMA Annual General Meeting and
dinner

Afternoon workshops:

Wednesday, 18 February, Namadgi - rescheduled from
October.

FROM THE EDITORS

An excellent time was had by all who attended the AGM. We have included on page 5 a photograph of members discussing mathematics, and other things perhaps, over dinner and another of the newly appointed committee for 2015.

Three pre-service teachers received CMA awards at the AGM. Their pictures are also included on page 5.

We acknowledge and thank the team of students and their teachers at Erindale College who again prepared a fine and cheerful meal for the occasion. Here they are:



The excitement at the AGM was heightened by the news that CMA is one of two professional associations that have won an Innovative Association Award from the Australian Professional Teachers' Association. Three committee members subsequently travelled to Melbourne to attend the conferring ceremony. The

citation for the award is reproduced on page 6.

The umbrella organisation APTA represents professional associations from many teaching disciplines but, interestingly, both of the Innovative Association Award winners were from the mathematics area, the other being MAV, the Mathematical Association of Victoria.

Look out for a new series of Wednesday Workshops in the new year. The workshop that was to have been held at Namadgi in October, will be rescheduled. This will be a repeat of the one successfully presented by Carolyn Evers in November, at Radford.

Members attend the Wednesday Workshops free of charge, which is one reason for renewing your membership early in the year.

If you have been a member in 2014, we have made the renewal process a little easier than it has been in the past. See the website for details.

On behalf of the CMA committee, Short Circuit, wishes its readers a happy, safe and refreshing Christmas holiday break.

MEMBERSHIP

Memberships are now due for renewal for calendar year 2015.

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

<http://canberramaths.weebly.com/>

CMA membership includes automatic affiliation with the Australian Association of Mathematics Teachers and a free AAMT journal.

Among other benefits, members are entitled to attractive rates for CMA professional development events and the annual conference.

CMA members can also 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 treasurer, Paul Turner, or another committee member.

PUZZLES

1. How does the navigator of a ship or an aircraft plot a *great circle* route between locations whose latitude and longitude coordinates are known?

In particular, how might one find the shortest route from Cape Town, 34°S 18°E to Canberra 35°S 149°E?

How far south does this shortest path go?

2. Prior to nine years before the advent of Short Circuit, CMA was publishing a much more substantial magazine, called Circuit.

The Circuit of December 2000 contained the following problem. It came originally from a piece with the same title by Hazel Perfect in *A Mathematical Spectrum Miscellany*, published by the Applied Probability Trust, Sheffield, 2000.

How Obvious Is It?

How obvious is it that in a set of objects not all of the same colour and not all of the same size there will be at least two which differ in both colour and size? Can you explain?

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

If you are a member of CMA, you are automatically a member of The Australian Association of Mathematics Teachers and should receive your journal and other communications directly from the AAMT office in Adelaide. <http://www.aamt.edu.au/>

Some resources:

Top Drawer Teachers – <http://topdrawer.aamt.edu.au>

MATHS IN THE WORKPLACE

The reports and other materials from the AAMT and Australian Industry Group project on Quantitative Skills in 21st Century Workplaces are available at <http://www.aamt.edu.au/Activities-and-projects/Workplace-maths-skills>

AAMT—CONNECT WITH MATHS

There are now four *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

Subscription to these communities is FREE.

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

Coming Soon...

Digital technologies for Mathematics community

GLOBAL EDUCATION—RESOURCES

For details visit the website:

<http://www.globaleducation.edu.au/>

SHORT CIRCUIT

CONFERENCE—CONVERSATIONS ON KNOWLEDGE FOR TEACHING

11 – 13 February 2015

Faculty of Education, University of Tasmania,
Newnham Campus, Launceston

Cost: Free, limited to 100 spaces
Travel and accommodation at own expense

RSVP and further info:
www.conversationsonkft.weebly.com

Contact: Katara Jade
Faculty of Education, University of Tasmania +61
3 6324 3819 | Katara.Jade@utas.edu.au

*...should appeal to anyone
who has an interest in
teaching and learning from
all sectors of education...*

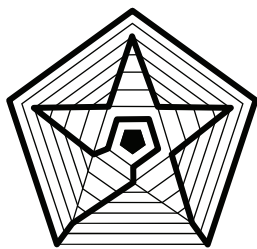
CMA RECEIVES APTA AWARD



The award

At the award ceremony:
Bronwyn Welch, Sue Wilson, Jurek Paradowski, Theresa Shellshear — CMA;
Carolyn Broadbent — COACTEA president





**NEWSLETTER OF
THE CANBERRA MATHEMATICAL
ASSOCIATION INC**

PO Box 3572
Weston ACT 2611
Australia

E-mail: canberramaths@yahoo.com.au

We're on the Web!
<http://canberramaths.weebly.com/>

THE 2015 CMA COMMITTEE

President	Bronwyn Welch
Vice Presidents	Sue Wilson Jurek Paradowski
Secretary	Theresa Shellshear
Treasurer	Paul Turner
Councillors	Aruna Williams Andy Wardrop Heather Wardrop Patricia Tandy Ed Staples Peter McIntyre Jo McKenzie Michael Klinkert Elaine Hooke Erin Gallagher Bruce Ferrington Caroline Evers Valerie Barker

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

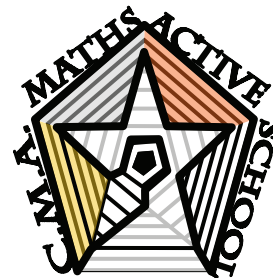
- * the promotion of mathematical education to government through lobbying,
- * the development, application and dissemination of mathematical knowledge within Canberra through in-service opportunities, and
- * facilitating effective cooperation and collaboration between mathematics teachers and their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

CSIRO
Australian Catholic University
Telopea Park School
Australian Catholic University

Erindale College
Erindale College
Lake Tuggeranong College
Melrose High School

University of NSW Canberra
Namadgi School
St Edmund's College

Radford College Junior School
Dickson College
University of Canberra



Find us on Facebook

SHORT CIRCUIT

FROM THE AGM



Discussing mathematics over dinner.



Committee expressing happiness about winning the APTA Innovative Association Award.

Theresa Shellshear, Elaine Hooke, Sue Wilson, Paul Turner, Valerie Barker, Heather Wardrop, Andy Wardrop, Michael Klinkert, Aruna Williams.

Patricia Tandy, Jurek Paradowski, Bronwyn Welch, Ed Staples.

Pre-service teachers receiving CMA awards from president Bronwyn Welch



Portia Bellow



Brendon Jones



Sarah Crawford



INNOVATIVE ASSOCIATION AWARD

Canberra Mathematical Association

The Canberra Mathematical Association (CMA) represents educators of mathematics in the ACT. It was established in 1963, and in 2013 was awarded the ACT Government Gold Award for 50 years' contribution to mathematics education. As a growing and dedicated professional association, the CMA aims to support professional learning and facilitate effective cooperation and collaboration between mathematics teachers and their colleagues in the surrounding community, including regional areas. The major focus of the CMA is on supporting a strong professional identity through the conference, professional learning workshops, and frequent communication via the interactive website, electronic newsletter and social media presence. The flagship of the CMA, the Annual Conference, promotes and showcases current best research-based practice across a wide range of content and pedagogy. The sustained growth in attendance attests to the relevance and appropriateness of the conference, workshops and resources for CMA members.

30 November 2013