

SHORT CIRCUIT

Newsletter of
the Canberra Mathematical Association INC

COMING EVENTS:

July 22 *Pi day*

August 20-21 *CMA Annual Conference. Australian Catholic University*

November 10 *CMA Annual General Meeting*

November 10 *The 314th day of the year—another Pi day!*

SHORT CIRCUIT

This is the second of what the CMA committee plans will be four editions in 2010.

We invite contributions of material for the newsletter from readers. Suitable submissions could include

- * Notices of coming events of interest to mathematics teachers
- * Reports and commentary on events and developments
- * Short articles relating to mathematics education

- * Short articles relating to mathematics
- * Interesting problems, puzzles and educational activities suitable for primary, secondary and college students

- * URLs and reviews of useful websites.

Short Circuit is jointly edited by Paul Turner and Jurek Paradowski.

Enquiries are welcome.

Contributions can be sent by e-mail to

paul.turner@ed.act.edu.au
6205 8104

or to

jurek.paradowski@ed.act.edu.au
0433 647 694

Alternatively, you can use the CMA mailing address:

PO Box 3572,
Weston ACT 2611.

NATIONAL CURRICULUM

Information about progress on the National Curriculum is available from the ACARA's website: http://www.acara.edu.au/home_page.html.

Consultation on the draft senior secondary Australian Curriculum remains open until 30 July 2010. Consultation on the K-10 draft has now closed.

ACARA has a Frequently Asked Questions section on its website:

NEWS

We note the passing of Martin Gardner on 22 May, 2010, at age 95. Members will remember his Mathematical Games column in *Scientific American* magazine and his books of collected mathematical puzzles. Gardner was a prolific writer.

<http://www.acara.edu.au/faqs.html> which contains the following information about the timing of implementation.

“After feedback has been collected and analysed the draft curriculum content will be refined ahead of its final publication in late 2010.

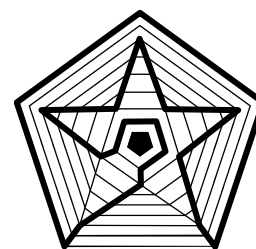
“Draft achievement standards for each course will be developed and made available for consultation in early 2011. It is anticipated that the final senior

Apart from his journalism, he wrote books popularising science, mathematics and philosophy. As a committed sceptic he debunked pseudo-science, fringe religions and fuzzy thinking wherever he found them. Gardner is said to

secondary curriculum, including content and achievement standards, will be ready for publication by mid 2011.

“While the curriculum will be available in 2011, it should be noted that state and territory curriculum, assessment and certification authorities have policies and practices which will influence decisions about start dates for implementation of the senior years Australian Curriculum.”

have had trouble with high school calculus. And, remarkably, his successes in mathematics were achieved without the benefit of a university education in the subject.



VOLUME 1, ISSUE 2

JULY, 2010

MEMBERSHIP

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

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

A membership application form for the CMA can be downloaded from our website:

www.canberramaths.org.au

CMA members get members rates on resources bought from AAMT

SHORT CIRCUIT

MATHS ACTIVE SCHOOLS

As announced in the last edition, the CMA committee has decided to adopt the Maths Active Schools program.

Schools are invited to apply to the CMA to be recognised as Maths Active Schools.

They will be able to use their Maths Active School accreditation and logo in their marketing.

It is hoped that the program will help to invigorate schools and individual teachers in their work in mathematics education.

A full description of this initiative can be obtained by contacting Jurek Paradowski or from the CMA website.



Are you a Maths Active School?

What just happened?

- Suppose you delegate to your junior sales representative the task of selling some oranges and apples. There are 30 apples that are to be sold at 3 for \$1 and 30 oranges that are to be sold at 5 for \$1. Having achieved good grades in mathematics at school, you are confident that the return on these sales should be \$16 but your sales department says that all the fruit were sold to one buyer and the return was \$15. The sales rep is called to account and explains that the average price was 4 for \$1 for 60 pieces of fruit and so the total return was \$15.

What happened?

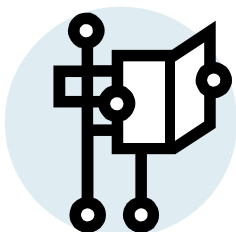
Probability

- What is the probability that a 50-year flood event will occur at least once within the next 50 years?

Ask the parrot

A solution to the problem in the last newsletter, about the pirate's buried treasure, was supplied by Ruth Edge who explained: "Ask the parrot". Ruth, realising that her solution was not entirely ship-shape, asked her father for help with her homework and eventually produced a correct proof using coordinate geometry.

Ed Staples, who suggested the problem, has collected three or four further proofs variously based on vectors, complex numbers and coordinate geometry.

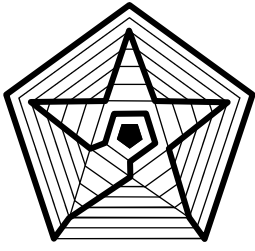


MATHS BY EMAIL

Maths by Email is a free fortnightly email newsletter with news, activities, puzzles, web links and more! *Maths by Email* is produced by CSIRO Education and the Australian Mathematical Sciences Institute (AMSI); the Australian Association of Mathematics Teachers (AAMT) is a member of the reference group for this project.

To subscribe, go to:

<http://www.csiro.au/resources/Maths-by-Email.html>



**NEWSLETTER OF
THE CANBERRA MATHEMATICAL
ASSOCIATION INC**

PO Box 3572
Weston ACT 2611
Australia

E-mail: canberramaths@yahoo.com.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 1965.

It continues to run - as it began - purely on a volunteer basis.

Its aims include

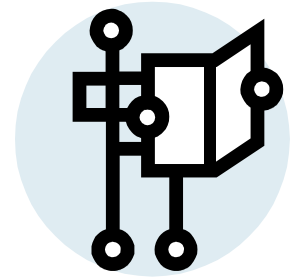
- * the promotion of mathematical education to government through lobbying,
- * the development, application and dissemination of mathematical knowledge within Canberra through in-service opportunities, and
- * facilitating effective cooperation and collaboration between mathematics teachers and their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

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

THE 2010 CMA COMMITTEE

| | |
|-----------------|--|
| President | Jurek Paradowski |
| Vice Presidents | Evelyn Ashcroft Sue Wilson |
| Secretary | Theresa Shellshear |
| Treasurer | Ian Ross |
| Councillors | Peter McIntyre Margie Smith Ed Staples Paul Turner Andy Wardrop Heather Wardrop |

| |
|-----------------------------------|
| Calwell High School |
| Melba Copland Secondary School |
| Australian Catholic University |
| Australian Catholic University |
| Lyneham High School |
| University of NSW—ADFA |
| Office of Spatial Data Management |
| Erindale College |
| Erindale College |
| Erindale College |
| Lake Tuggeranong College |



You can contact the Canberra Mathematical Association by e-mail:

canberramaths@yahoo.com.au