

Executive Director



This month the Australian Mathematics Trust is bidding farewell to Executive Director, Adjunct Professor Mike Clapper. Mike took up the role in 2013 and in the four years of his leadership the AMT has seen many new innovations.

The most significant of these are both the [Computational and Algorithmic Thinking \(CAT\)](#) and [Australian Mathematics Competition \(AMC\)](#) moving online, and the introduction of the online [GetSet](#) training packages. Under his leadership, an upper primary level of CAT was introduced, as was a new level of [MCYA Enrichment \(Ramanujan\)](#) and a complete rewrite of [Polya](#). Numbers for the [Australian Intermediate Mathematical Olympiad \(AIMO\)](#) also increased dramatically, enlarging the pool of students being offered these extension opportunities.

Mike has also been instrumental in setting up [Curious Minds](#), a mentoring program for girls in years 8-10 in STEM subjects, in conjunction with Australian Science

Innovations (ASI). He also facilitated setting up our new program, [digIT](#), to provide workshops and mentoring in digital technologies for students in years 8-9.

Mike has introduced Enrichment workshops for students with outstanding results in the AMC. These have been held in conjunction with Awards presentations throughout Australia and have proved highly successful and popular with students. He has also focussed on upskilling teachers in mathematics with a series of professional development workshops across Australia.

While Mike is stepping down as Executive Director, he will continue to contribute his maths expertise to the Trust in the capacity of Chief Mathematician. The Trust is happy to announce the appointment of Mr Nathan Ford, who will join us in the capacity of Chief Executive Officer in January.

As a former teacher, a mathematical enthusiast and the father of two young children, Nathan has great passion for education, mathematics and informatics as these will form the cornerstones of education and problem solving in this century. Nathan is very excited about the opportunity to work closely with the AMT Board, Chief Mathematician and staff to help the AMT grow and sustain itself into the future.

The AMT wishes to thank Mike for his significant contribution and looks forward to our continued association.

2016 AMC Awards



The Australian Medallists at Government House with His Excellency General the Honourable Sir Peter Cosgrove AK MC and Her Excellency Lady Cosgrove.

The Australian Mathematics Competition (AMC) was held on 27 July and the results are now finalised. [Medals](#) were awarded to 60 students worldwide with 8 of those students obtaining perfect scores. Medals were presented in Indonesia, Malaysia, New Zealand, Philippines, Singapore, Vietnam and Australia. His Excellency General the Honourable Sir Peter Cosgrove AK MC presented the Australian medals at a ceremony at Government House, Canberra, on 7 November.

Among the Australian medallists were 2 perfect scorers, Guowen Zhang, Year 10, from St Joseph's College QLD, and Kevin Xian, Year 12, from James Ruse Agricultural High School NSW. Kevin was joined on the medal list by three of his IMO team mates, Michelle Chen, Iliia Kucherov and Seyoon Ragavan.

The local AMT Awards Presentations have also been completed, with selected students from years 5-8 also participating in Enrichment Workshops. Whilst full of mathematical rigor, each workshop was hands on, and looked at the fun side of mathematics. The workshops also allowed the students to engage with other gifted students.



Students participating in the Enrichment Workshop.

Prize winners have been announced and schools should have received their results pack with certificates. Prize winners are listed on the AMT website at www.amt.edu.au/mathematics/amc/

Congratulations to all who participated in the AMC this year. For those who enjoyed the AMC and are looking for further extension activities, consider registering for the Mathematics Challenge for Young Australians programs next year. More details can be found at www.amt.edu.au/mathematics/mcya/

40th Anniversary



2017 marks the 40th running of the Australian Mathematics Competition (AMC) and to mark the occasion we are offering a package price when entering students in the

Details about all our events can be found on our website www.amt.edu.au/information/prices-and-key-dates/

AMC together with CAT. Normally these competitions cost \$6.50 each per student (Australian price only, includes GST) but teachers can enter students in both competitions at the **discounted price** of just \$10 per student. To take advantage of this offer, enter your students by Monday 13 March 2017. Entries will be open from February 2017.

Teachers can add the training programs GetSet AMC or GetSet CAT to any order for the school only price of \$2.00 per student.

New CAT book

We are pleased to add to our informatics stable of books a new book by David Clark. Entitled *Computational and Algorithmic Thinking 2011-2015 Book 2* it is the second in the series of the AIC/CAT competition.

It contains all the AIC and CAT papers and full solutions from the years 2011-2015. It also contains a chapter on Algorithms covering topics such as Breadth-first Search, Shortest Path, Maximum Flow and many more.

In 2015 the Australian Informatics Competition (AIC) changed its brand name to Computational and Algorithmic Thinking (CAT). The first book was published under the AIC brand, while this one bears the new name, and is Book 2 in the series.

It is available from our [bookshop](#) for \$45 incl GST.



\$45

Competition Results

Results for the recently sat [Australian Intermediate Mathematical Olympiad \(AIMO\)](#), [Australian Informatics Olympiad \(AIO\)](#), [Senior Contest](#) and the [Australian Statistics Competition](#) are now available.

Congratulations to all students who participated in these events, especially the 15 students who obtained perfect scores in the AIMO and the four students who obtained perfect scores in the AIO. The Senior Contest is an invitational competition and this year 79 students participated, of whom five obtained perfect scores we also congratulate them.

The Australian Statistics Competition was entered by 645

students throughout Australia. The national winners are:

Junior Division

Ananya Williams, Anna Bullard and Divya Jean, Rossmoyne Senior High School QLD

Intermediate Division

Tara Sims and Monica Margarit, St Peters Lutheran College QLD

Senior Division

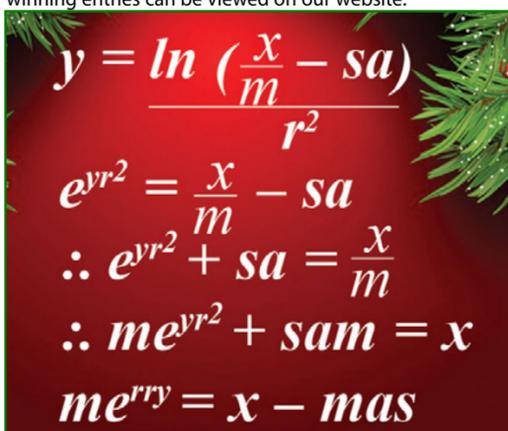
Huw Evans and Cameron Webb, The Scots College NSW

Congratulations to these students. All national and state winning entries can be viewed on our website.

Merry Christmas

The AMT would like to extend our thanks to all teachers who participated in our events this year. Without your

Competitions	Date
CAT	Tuesday 21 March
AMC	Thursday 27 July
AIO	Thursday 31 August
Challenge Stage	March to June (3 weeks)
Enrichment Stage	April to September (16 weeks)
AIMO	Tuesday 12 September



We wish teachers, students and all our readers a Merry Christmas and a safe and happy New Year.

Subscription

Do you know any Maths or Informatics teachers who would benefit from receiving the *Maths Matters* newsletter? They can sign up through the AMT [website](#) by simply filling in their details. *Maths Matters* is emailed six times throughout the year (Feb, Apr, Jun, Aug, Oct and Dec).