



Australian Mathematics Competition

Over 400 schools, in Australia and overseas, entered the 2016 AMC. This included 400 schools taking the online version of the competition.

Unfortunately, a number of schools encountered some technical issues with the online competition due to an unexpected peak load. We apologise for this and will do everything we can to ensure that it does not happen in the future. The schools which were not affected by this issue had a very positive experience.

We want to thank all AMC competition managers who worked tirelessly to give their students the opportunity to participate in this great event. We are currently processing the results and will have them available to schools electronically. All certificates will be despatched throughout September and medallists will be announced on our website.

The AMC is a fun competition with many of the problems

set in situations familiar to students and showing the relevance of mathematics in their everyday lives. The problems are also designed to stimulate discussion and can be used by teachers and students as springboards for investigation. If your school is interested in finding out more about the AMC visit our website www.amt.edu.au/mathematics/amc/.

Past papers are available for purchase through our bookshop and GetSet AMC is also available as training for the AMC. Students can enrol in GetSet AMC for a 6 month period and have access to a collection of problem sets and a mock competition to be solved in a recommended sequence. The problem sets and mock competition are auto-graded and students are presented with a comprehensive performance report with suggested areas for improvement. The past papers and GetSet AMC are great ways for students to practise. Visit the above website for more information.

Australian Mathematics Competition Thursday 27 July 2017

Australian Olympians win medals

While all eyes have been focused on the Olympics in Rio, other Olympiads have also occurred across the world in mathematics, informatics and four fields of science. These Olympiads are held annually to give an opportunity for the brightest high school students to compete against each other on an international basis.

The AMT is proud to be involved with training two of the teams to represent Australia. This year the International Mathematical Olympiad (IMO) was held in Hong Kong and the International Olympiad in Informatics (IOI) was held in Kazan, Russia.

Two members of the mathematics team, Michelle Chen and Seyoon Ragavan, were given an opportunity for pre-IMO training in the United States with the USA IMO team. This was a great experience for both students as the USA is the current reigning champion IMO team.

The team trained with the British team in the Philippines before flying to the IMO. The training concluded with the Mathematics Ashes, where Australia was beaten so the ashes remain with the Brits.

The Australian IMO team of six students competed over two days solving three problems each day within a four-

hour period. Each problem is worth seven points giving a possible total of 42. Our team performed very strongly with all students winning medals. With two Silver and four Bronze medals, Australia was placed equal 25th out of 109 participating countries. Results of the team are below.

The Australian IOI team of four students also performed very strongly winning three Silver medals and one Bronze. Individual results of the Australian team are below.

The two IOI competitions were held on 14 and 16 August. The official IOI website can be found here ioi2016.ru.

We would like to acknowledge [Optiver](#), the official sponsor of the Olympiad program whose support has assisted the teams to participate in this fantastic event. 'One of our key beliefs at Optiver is the pursuit of excellence in a talented, well-organised team. We are extremely proud of and impressed at the level of talent on the teams representing Australia at the IMO and the IOI. Each member of the team has demonstrated passion, dedication and commitment to learning and developing themselves and they should be proud of this great accomplishment', said Martina Carr, Grad Talent Scout People Leader, Optiver.

Congratulations to all the team members.

Australian IMO Team			
Name	School	Year	Award
Michelle Chen	Methodist Ladies' College VIC	Year 12	Bronze
Iliia Kucherov	Westall Secondary College VIC	Year 12	Bronze
Jongmin Lim	Killara High School NSW	Year 12	Silver
Seyoon Ragavan	Knox Grammar School NSW	Year 12	Bronze
Kevin Xian	James Ruse Agricultural High School NSW	Year 12	Silver
Wilson Zhao	Killara High School NSW	Year 12	Bronze

Australian IOI Team			
Name	School	Year	Award
Richard Gong	Sydney Grammar School NSW	Year 11	Silver
Jerry Mao	Caulfield Grammar School VIC	Year 10	Silver
Declan McDonnell	Normanhurst Boys High School NSW	Year 12	Silver
Belinda Shi	Methodist Ladies' College, VIC	Year 12	Bronze



The Australian IMO team after the Closing Ceremony, from left: Wilson Zhao, Seyoon Ragavan, Jongmin Lim, Kevin Xian, Iliia Kucherov and Michelle Chen.



The Australian IOI team after the Closing Ceremony, from left: Jerry Mao, Richard Gong, Declan McDonnell and Belinda Shi.

Senior Contest results

Congratulations to all students who participated in this year's Senior Contest. The Senior Contest is a four-hour invitational examination and is the first of AMOC's national mathematics contests. The paper is set by the AMOC Senior Problems Committee. Typically Year 10 or 11 students are invited to enter but sometimes younger students showing great potential are also invited to enter.

This year, nearly 80 students from Australia sat the contest on August 9 and results will be sent out to schools very

shortly. The top 10% of students will be awarded Gold certificates, the next 15% gain Silver certificates, whilst other students in the top half receive a Bronze certificate. Students who get full marks for at least one question gain an Honourable Mention.

Results of the top ranking students can be found on the AMT website at www.amt.edu.au/mathematics/amocip-olympiad-program/senior-contest-results/

AIMO

Students who enjoyed the AMC are encouraged to participate in the Australian Intermediate Mathematics Olympiad (AIMO).

This four-hour examination is an open event for talented students up to Year 10 level, appropriate for those who have completed the Gauss or Noether stage, high achievers in the Australian Mathematics Competition and students who have acquired knowledge of Olympiad problem solving.

The AIMO is one of the competitions used to determine

which students are selected to a number of invitation-only events, including other mathematics competitions, enrichment classes and training schools. It gives talented students an opportunity to be recognised and to participate in activities which will enhance their enjoyment and knowledge of mathematics.

To find out more visit the AMT website www.amt.edu.au/mathematics/mcya/

Job opportunity: Program Director – ICT Summer Schools

The Australian Maths Trust (AMT), with support from Australian Science Innovations (ASI), will deliver a national program to inspire and challenge 60 students in years 9 and 10 in digital technologies and coding. The purpose of the program is to identify talented students from under-represented and/or disadvantaged groups and promote their interest in pursuing ICT pathways. The students will participate in a December or January residential program with a follow-up session in July, supported by one-on-one mentoring in the period between the residential schools.

The Program Director will lead the program and coordinate its operation. Reporting to the Executive Director of

AMT, you will be responsible for managing your team of staff, organising a teaching curriculum for the residential components of the program, and working with the mentoring consultant to establish a six-month mentoring program for each of the students. You will be supported by a program manager who will work closely with you and manage all the logistics and administration associated with the program. The successful applicant will be appointed on a part-time basis (equivalent to a 0.2 FTE) for a four-year period.

Find out more at www.amt.edu.au/job-opportunity-program-director-ict-summer-schools-0-2-fte/

Job opportunity: Marketing & Communications Officer

An opportunity exists for a Marketing & Communications Officer with the Australian Mathematics Trust (AMT). This position is ideal for a skilled and confident self-starter and strategic thinker who can also look outside the box. The Marketing and Communications Officer reports directly to the Manager, working closely with the AMT team to

manage all aspects of public relations, communication and marketing of the products/services of the AMT.

Further information and contact details can be found at www.amt.edu.au/job-opportunity-marketing-communications-officer/

Subscription

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