

Anthony Harradine problem-solving workshop in Auckland September 28th and 29th

The Auckland Mathematical Association (AMA) is thrilled to announce that Anthony Harradine and Dr Anita Ponsaing will present a day-and-a-half workshop on Friday September 28th and Saturday September 29th (last day of term 3 and the first day of the holidays).

Any of you who have been to one of Anthony's workshops or presentations in the past will know that he is an inspirational mathematician and presenter. His passion and workshops focus on problem solving. His MathsCraft workshops have become very popular in Australia and are now run under the umbrella of The University of Melbourne. We are very fortunate that the Melbourne university has also gifted us Dr Anita Ponsaing's time.

AMA together with ACEMS (ARC Centre of Excellence for Mathematical and Statistical Frontiers) will be jointly hosting a workshop for secondary maths teachers on MathsCraft (problem solving). There is an opportunity for 12 schools from the Auckland region to send two teachers each to the full day session on Friday and for those teachers to bring up to 3 students from the school to the half day session on Saturday.

MathsCraft does not involve using mathematics in doing craft activities as a similarly named programme presents. It is problem solving. The programme has been developed steadily over the last 7 or so years, starting life at Prince Alfred College in Adelaide where Anthony works. It is now 'living' under the ACEMS banner as its main outreach initiative. You can find more about this by checking out the link <https://acems.org.au/mathscraft>.

MathsCraft's bi-line is "Doing mathematics like a research mathematician."

MC is based upon couple of basic premises:

- a) students generally engage with problems that require them to draw upon content-knowledge that they should have learned some years previous.
- b) solutions to problems evolve from independent student thought, followed by student-student conversation, student-mathematician conversation.

During the workshop, we will be presented with problems to solve that will prompt independent thought and fuel conversations, we will also see how the 'leaders' behave to build a productive and efficient environment in which students can develop their problem solving abilities and confidence.

Registration:

- There will be the opportunity for 12 Auckland schools to participate in the workshop.
- Each of the 12 schools will send 2 teachers on both Friday and Saturday and also up to 3 students on the Saturday morning.
- The cost will be \$120 per teacher. Schools will be invoiced by the AMA for the cost of the workshop. There is no cost for the students.
- The workshop will be held from 9am to 3:00pm at Epsom Girls Grammar School on Friday September 28th and continued from 9am to 12:30pm at the University of Auckland Epsom Campus on Saturday September 29th.
- Morning tea will be provided on Friday and Saturday. We recommend that you bring your own lunch on Friday as there are limited opportunities to purchase food in the vicinity.
- Register through this link: <https://goo.gl/forms/qWGIEXHaqCbriENh1> or by completing the attached registration form and emailing it to aklmathsassn@gmail.com
- AMA will confirm your registration as soon as possible and will inform unsuccessful applicants.
- Any questions about the workshop should be sent to aklmathsassn@gmail.com