

## Enrichment Opportunities in ACT and Region.

### JOHN CARTY

Former AMOC Director ACT - 16 years.

### **Events of the Australian Mathematics trust.**

Australian participation numbers:

AMC (350 000)

AMOC

Maths Challenge: years 3-10 (12000)

Newton Years 5 + 6 (650)

Dirichlet: Years 6 + 7 (750)

Euler Years 7 + 8 (1500)

Gauss Year 9 (800)

Noether Years 9 + 10 (500)

Polya Year 10 (250)

AIMO (Australian Intermediate Mathematical Olympiad) (800+ but looking to increase this)

AMOC Senior Contest (100)

AMO (110)

APMO (40)

Aust Maths school of Excellence (25) and IMO Selection School (25)

IMO (6)

Tournament of the Towns (currently operating in 5 cities, including Canberra, Melbourne and Perth)

- AIC (Australian Informatics Competition) (6000)- Informatics – the AIC is quite accessible to most students and does not require programming skills. It will identify those with programming potential who can then access the online training program (free) to prepare for the AIO and beyond.

AIO (250)

AIO (Australian Invitational Informatics Olympiad) (75)

Informatics School of excellence (16) and Selection school (16)

IOI (4)

Few people can or should aim to do all.

I would like to think that the **ACT** could enter at least 1000 students in the Maths Challenge.

I think we could get at least 150 into each of the Newton, Euler and Gauss.

It would be good to have these as aims for 2014.

I believe there is potential that is not being tapped.

Burgmann College runs a day for Year 10. (James Hassall is the contact).

Gungahlin College also runs a Year 10 day (Gavin Scales)

Merici used to run an Enrichment day from 1987 to 2007. This was for teams in Year 8.

Enrichment Program on Fridays at ANU, run by DSTO mathematicians and available to students who have done well (HD or better) in the AMC. This runs for 24 weeks a year and students enter the TOT as a part of the program.

John Hutchison's course (An introduction to Contemporary Mathematics) – counts towards a student's Senior studies – currently about 20 students. Runs across Years 11 and 12

ANU Year 12 Maths day - end of May – 32 schools this year – likely to rise

Zoltan's visits/program

All these are endorsed by the professional associations.

MIKE CLAPPER, the Executive Director of the AMT is very willing to visit schools or clusters of schools.

New and younger teachers coming in need to know that help and access is available.

#### Resources:

CMA

AAMT

AMT

Book sellers (but not NAPLAN sales)

#### NOTE

Extends and augments school mathematics curriculum

Enhancement of student maturity

Mixing with similar students

Detailed notes and explanations

Certificates

Opportunity