

West Midlands Regional Newsletter

SPRING 2013

The National Picture

Throughout the current academic year the FMSP have been active in many areas of work – from tuition, to CPD, to enrichment, to engaging with universities. All this work seeks to enthuse about mathematics and to help support and suggest study of further mathematics.

This newsletter details some national developments before going on to describe activities and opportunities in your region.

UKMT/FMSP Senior Team Mathematics Challenge Final:

On February 5th at the Camden Centre, London, 62 teams competed in the 2012/13 STMC Final. The teams had qualified from 56 regional heats involving over 1100 schools and colleges.

The overall champions were the team from Westminster School (pictured below), who have won the competition on 2 previous occasions. City of London School, Eton College and Magdalen College School Oxford were in joint second place. The poster competition, on the theme of *Sets and Logic*, was won by The Grammar School at Leeds (pictured below). This year the competition was sponsored by Rolls-Royce plc. Sarah Malik from Rolls-Royce attended the final and presented the prizes.



Westminster School



The Grammar School at Leeds

More FREE resources now available – AQA Level 2 Certificate in Further Mathematics

The FMSP provides free teacher access to comprehensive online resources for AS/A level Further Mathematics via the Integral virtual learning environment – <http://integralmaths.org>. Access also includes materials for OCR Additional Mathematics, STEP, AEA, IMPS (Integrating Mathematical Problem Solving) and AQA Level 2 Certificate in Further Mathematics. We are pleased to announce that, via sponsorship from AQA, subscription to online resources for AQA Level 2 Certificate in Further Mathematics is free for centres, and their students, for the calendar year 2013. Please see the recent news announcement about this: www.furthermaths.org.uk/fm_news.php

Extended professional development courses

The FMSP provides a range of professional development courses, such as for STEP/AEA and for Key Stage 4. It also has an extensive programme of online professional development – for more details see: www.furthermaths.org.uk/teacher_area/cpd.php. There are also extended courses that are now taking applications:

Teaching Further Mathematics enables participants to study the content of Further Mathematics from a teaching and learning perspective. The course starts in July and applications are now being taken. For more information and an application form please see: www.furthermaths.org.uk/teacher_area/tfm.php

Teaching Advanced Mathematics is designed to give teachers the skills and confidence to teach A level Mathematics effectively, focussing on subject knowledge and pedagogy. The Masters-credited course fees are £600 but **schools and colleges of participants are entitled to receive £1200 in March 2014**, in recognition of the support they provide to enable one of their teachers to take the course. For more information please see: www.mei.org.uk/tam

West Midlands Events and Updates

Autumn term 2012



UKMT Senior Team Mathematics Challenge 2012/13

Senior team enrichment at the University of Warwick

This was an introduction to the team challenge for schools new to the event.

Students were shown the styles of questions in the challenge and given hints and strategies for success.



STMC Regional Heats

Sixteen teams entered the Coventry heat held at the University of Warwick. The winners, Kenilworth school are pictured on the left.

Heats also took place in Birmingham, Malvern, Stafford, Wolverhampton and Keele.

Revision Days

University of Warwick:

December revision days for C1 and C3 were well attended with 200 and 150 students attending respectively.

Keele University:

The C1 revision day on 11 Dec 2012 was attended by approximately 80 pupils.

CPD for Teachers

- ❖ Preparing students for STEP and AEA exams
- ❖ Using GeoGebra in the classroom
- ❖ KS4 Enrichment and Extension
- ❖ Problem solving in GCSE Maths
- ❖ Teaching FP1
- ❖ Teaching Statistics
- ❖ Teaching D1

CPD events for teachers take place throughout the region in the Autumn Spring and Summer terms.

Some of those listed are repeated in different venues over the year.

Check the website for dates and venues of those still to take place!

<http://www.furthermaths.org.uk/centre/?centre=westmidlands>

West Midlands Events and Updates

Spring term 2013

Enrichment events for students in KS3, KS4 & KS5

❖ Year 10 Competitions

For the first year of what will hopefully be many, we have introduced a team competition similar to the Senior Team Challenge for Intermediate (year 10) students.

By Easter, heats will have taken place in Rugby, Solihull, Wolverhampton and Keele.

The photo shows the Rugby heat with the winning team from Myton School in the foreground.



- ❖ In conjunction with the Royal Institute, the FMSP has run **Maths Master-classes** for year 9 students at the University of Warwick. These have taken place over 6 Saturdays in February and March.
- ❖ Keele University have run day **Maths Master-classes** for students in years 8 and 11.
- ❖ **Maths and Beyond** at 'The University of Warwick'. March 20th and 21st 2013



Due to the high demand experienced for this event last year we will be holding this year's event over 2 days.
Both days will be the same.
Decide which day suits you best and bring up to 30 students along!

Hugh Hunt "Boomerangs Bouncing Balls and other Spinning things" and a selection of workshops

- ❖ **An Activity Day** for able Year 10 pupils at Keele University 26th March 2013
- ❖ **Enrichment and Ideas** for A/AS level Maths students. Keele University 26th June 2013

Presenters are Katie Steckles, Colin Wright and David Bedford. <http://bit.ly/Enrich26june2013>

Revision Days

The Mathematics Institute, University of Warwick	16 th April 2013	C2
Stafford	18 th April 2013	Edexcel C2

Problem Solving and preparation for STEP

Weekly classes are taking place at the University of Warwick throughout the Spring and early Summer terms.

