

## 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 5<sup>th</sup> 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](http://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](http://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](http://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](http://www.mei.org.uk/tam)

## CPD

2<sup>nd</sup> July 2013: Topics from FP2/3. Hartlepool College.

5<sup>th</sup> July 2013: GCSE Enrichment and Enhancement, 1<sup>st</sup> day of two. Teesside University Middlesbrough. This is a repeat of the oversubscribed course held in Jan/March in Gateshead. Second day 20<sup>th</sup> Sept.

11<sup>th</sup> July 2013: Topics from AS Core. Aimed at teachers new to the A level Mathematics course. Teesside University, Darlington Campus

October 2013: Topics from A2 Core. Venue and date tba.

## Revision Days:

1<sup>st</sup> May 2013: Core 2 Revision Day at Teesside University for all specifications

## Yr10 Events:

20<sup>th</sup> March 2013: Yr 10 Conference: *'Maths takes you further'* at Teesside University

22<sup>nd</sup> April 2013: Regional Final of the Yr10 Team Challenge at York Railway Museum.

25<sup>th</sup> June 2013: Mathsplosion at the Centre for Life Newcastle. (Two half day sessions)

4<sup>th</sup> December 2013: Maths and Music Lecture. Teesside University.

## Network Meeting:

26<sup>th</sup> March 2013: 16-18 Network Meeting, Newcastle University. 12.30 to 4.00pm

## STEP Maths Classes:

Wednesdays from 4.00pm to 5.30pm at Newcastle University until June.

## Previous Events:

### Senior Team Maths Challenge:

Two schools asked for training for the Team Challenge and a total of 23 students took part in activities to familiarise themselves with the day and also enjoy some problem solving activities.



The heat at Northumbria University attracted 29 schools and the event was won by RGS Newcastle with Emmanuel College Gateshead second and Duchess High School Alnwick third.

At Teesside University 19 schools took part, the winners being Prior Pursglove College Guisborough with Hartlepool Sixth Form College a close second and Fyling Hall School third.

The photos below show the winning teams from Northumbria on the left and Teesside on the right.



## Local CPD Events:

Last term there were CPD Days for Statistics at St Bede's School in Lanchester and a third Outstanding Lessons for Core day held at Sacred Heart in Fenham. The photo shows some of the delegates trying the materials brought by Bernard Murphy, who presents the course.



In January the first of the two day course on GCSE Enrichment and Enhancement was full and it is being repeated in the summer. Another GCSE course on Problem Solving takes place on March 1<sup>st</sup>. The first half of a Using Geogebra in A Level Mathematics took place in February, the second half day takes place in March giving teachers an opportunity to try out techniques and hopefully come back with ideas and problems. If there is demand we plan to arrange a Geogebra for GCSE Maths course next year. The STEP/AEA one day course in February attracted a delegate from Japan, such is the fame of Peter Mitchell who presented the day.



## Post 16 Network Meetings:

These have continued to grow, arranged by David Thomas and with the support of Newcastle University. At the last meeting Tom Button did a workshop on Active Learning in Yr12 and John Smith from the RGS a presentation on Challenge and Enrichment Post 16.



## Core Revision Days:

The day at Teesside in December was oversubscribed and hopefully the students did pick up some last minute tips to help with the exam in January. The photo below shows some maths aerobics to revise graph transformations.



## Other Events:

Lee Fawcett from Newcastle University delivered a talk on how maths is used to plan for environmental disasters as part of Teesside University's inspirational lectures series. This year's lecture is on Dec 4<sup>th</sup>, see above.

The Yr10 Team Challenge Heats will have taken place by the time you receive this. There are 45 teams taking part at either Northumbria or Teesside Universities with the final at the National Railway Museum in York for the heat winners in April.

STEP Maths Classes are running again this year, presented by Ryan Bannon, at Newcastle University every Wed from 4.00pm to 5.30pm. Numbers have grown considerably from an average of 7 last year to 16 this year.

## Other Information:

Do contact either Phil Moxon ([philmoxon@furthermaths.org.uk](mailto:philmoxon@furthermaths.org.uk)) or Barbara Thompson ([barbarathompson@furthermaths.org.uk](mailto:barbarathompson@furthermaths.org.uk)) if you would like more information on any of the above. We can arrange to support you and your school in a variety of ways: this year we have provided emergency tuition, in school CPD to meet a crisis and revision sessions in house.