SATURDAY





Happy punters

Competition Day Two

A bright sunny day welcomed the arrival of EGMO's final paper. There was an impressive number of questions, 50% more than yesterday, making a total of more than 90 queries over both days. EGMO 2012 saw more queries than contestants. Problem 5 was the most popular amongst many of the contestants, while number 8 was considered to be the most challenging of the second day problems.

Did you know...

...that there are muntjac deer living in the Murray Edwards College gardens? You might also have seen rabbits, squirrels, cats, pheasants, jays, and many other birds. The College cat is black and white, and is called Jake.

A lovely Day of Punting

After the pressure of the exams, the girls were treated to a leisurely afternoon being punted in style along the River Cam. From the comfort of their boats, they were able to absorb the riverside views of the beautiful city of Cambridge whilst being entertained with interesting facts and anecdotes about the history of the University. Some adventurous girls were keen to try their hand at punting and soon discovered that it was significantly harder than it looked! There was much laughter and amusement as the EGMO-driven punts began to go around in circles and collide with other punts, leading to potential international chaos! For many contestants, this proved to be the highlight of the week so far!



Relaxed punters

Craft Evening

This evening here will be an evening of mathematical craft in the Dome. No experience necessary! There will be a selection of things to try. They don't take too long, so you can drop in when it's convenient (and you can still go to Dan Schwarz's talk too). Come and make something beautiful to take home with you as a souvenir.



Stylish punters

Live scores

On Saturday afternoon, contestants will go on a mathematical tour of Cambridge with their guides. When they get back, there will be refreshments in the Long Room, where the live scores will be displayed as they come in.







Don't Forget.....

Dan Schwarz is talking about Geoff Smith's famous Windmill problem from IMO 2011 at 19:30 today.



Two Puzzles

1. Does there exist a finite set X of natural numbers such that the positive integers can be expressed as a disjoint union of translates of X, but for any n>0the set {1,2,...,n} cannot be expressed as a disjoint union of translates of X?

2. There are 13 bridges connecting the banks of the River Pluvia and its 6 piers, as shown in the diagram on the left. On an extremely stormy night, each bridge has a 50% chance of being damaged by the rainfall. What is the probability that the locals can still cross the river without using any damaged bridges?



Excursion to Bletchley Park—meet at 9:15

Before World War II, Bletchley Park was the country estate of a wealthy family, who built a mansion in the middle of the park. Shortly before the outbreak of war, the British Government took over the site, to use as the home of the Government Code and Cypher School. This was all secret, so the public were not allowed to know who was working at Bletchley Park. The site had the codename Station X.

During the Second World War codes, including those generated by the Nazi Enigma and Lorenz machines, were decrypted. The mathematicians continued work that had been begun in Poland. Alan Turing, the father of computing, worked here at that time and some of the first programmable computers were built to help with the decryption. You will be given a tour of the site with some background information and history, a chance to see (and play in) the computer museum, and you will be challenged to crack some codes.

The week ahead:

Saturday

8:00 Breakfast for Leaders, Coordinators and Deputies
11:30 Brunch for Contestants
and Guides
12:00 Lunch for Leaders, Coordinators and Deputies
PM Cambridge Maths Tour
18:15 Dinner
19:30 Maths Talk—see poster
20:00 Craft Evening, Dome

Sunday

8:00 Breakfast 9:15 Get on coaches Excursion to Bletchley Park 18:00 Return to MEC 19:00 Gala Dinner (dress code: lounge suits), Dome

Monday 8:00 Breakfast Departure



An Interview with the USA Leader.....

Unfortunately, nothing that she said can be printed.

