



KS5 Mathematics Enrichment Day **1st July 2008**

This day is intended for students in year 12 who are interested in taking their mathematics further by doing a mathematically related degree and who will be studying Further Mathematics AS in year 13. It is equally well suited to year 11 students who are going to study Further Mathematics in year 12. The day is intended to be interesting, fun and give students an insight into some of the many ways mathematics contributes to our lives. There will be three sessions in the day:

'The square root of -1 – we lied!'

Pat Morton – FM Centre Manager & Dr Francis Wright QMU

This is an introduction to the mathematics of complex numbers and the many ways in which they can be used in mathematics.

'Danger – Mathematicians at work!' – The Mathematics of Sports Stadiums

Dr Paul Shepherd – Bath University

As a mathematician working for Buro Happold Dr Shepherd worked on the construction of three of the largest stadiums in Europe, the O₂, The Emirates and Landsdown Road. In this interactive session he talks through some of the mathematics which he and others used to face the challenges raised by building these huge stadiums.

'The Magic of Mathematics'

Professor Peter McOwan - QMU

Maths is all around us allowing some remarkable things to happen. In this session we will explore how maths makes much of the world go round, and learn a conjuring trick or two.

There will also be an opportunity to talk to students about university life and what it is like to study mathematics or mathematically related degrees. Even more importantly there will be chance to sample the student cuisine!!

There is no charge for the day and lunch will be provided. If you would like more details please contact Pat Morton on 07914 911 051 or at patmorton.fmnetwork.org.uk. Places will be limited as this time we would like to keep the numbers relatively small so please book early. Complete the attached form and return or email to the addresses given. The day will begin about 9:30 and end about 3:30. The sessions will take place at QMU – full programme and travel directions will be sent on registration.