

The Yorkshire Branch of the Mathematical Association - Programme 2014 - 2015

Those meetings labelled *Room 9.301, Physics Research Deck* take place at the University of Leeds. See the back page for details.

Saturday
11th Oct 2014
2pm for 2.30

The Retiring President's Talk - Liz Meenan

Around the World in 80 Tiles

*Room 9.301, Physics
Research Deck*

Mathematics is seen in designs everywhere. Join us on a mathematical tour of the world and learn how to make your own tiles via paper-folding techniques.

Thursday
6th Nov 2014
7pm for 7.30

Richard Elwes – University of Leeds

Knot Maths

*Room 9.301, Physics
Research Deck*

The mathematics of knots is surprisingly deep, with applications from quantum physics to biochemistry (via shoelace-tying, mountain-climbing, and crochet). At its core is a deceptively simple question: how can we tell whether or not two tangled loops of string are really two copies of the same knot? In this session we'll see why this question is so difficult and meet a few of the mathematical tools people have developed to attack it.

Thursday
4th Dec 2014
7pm for 7.30

Tim Devereux and Alan Slomson – YBMA

"Christmas Quiz and Buffet!"

*Room 9.301, Physics
Research Deck*

A sociable evening of brain-frazzling questions, quirky mathematical prizes with seasonal food and drink. Cajole your colleagues to come and enjoy themselves.

Thursday
12th Feb 2015
7pm for 7.30

Alan Slomson - YBMA President

Crossnumbers in the Classroom

*Room 9.301, Physics
Research Deck*

Crossnumbers can be used in the classroom to encourage pupils to practice mathematical skills, logical thinking and problem solving, in a format which many find attractive. The session will discuss the various possibilities and provide some useful tips for devising crossnumbers. It will be a "hands on" session, with those present working in groups to create their own crossnumber.

Wednesday
25th March 2015
2.30pm

W P Milne Lecture for Sixth Formers

Simon Singh

The Simpsons and Their Mathematical Secrets

*University of Leeds
(Rupert Beckett
Lecture Theatre,
Michael Sadler
Building)*

Everyone knows that The Simpsons is the most successful show in television history, but few know that its gang of mathematically-gifted writers have used the show to explore everything from calculus to geometry, from pi to game theory and from infinitesimals to infinity. Simon Singh, author of Fermat's Last Theorem, Big Bang and The Code Book, discusses his latest book and explores the mathematical ideas that have been smuggled into The Simpsons. D'oh!

Saturday
25th April 2015
1.30pm for 2.00

Study Session

Puzzles and Challenges – Ideas for your Classroom

*Room 9.301, Physics
Research Deck*

Join us to have a go at a selection of UKMT and FunMaths Roadshow puzzles. They are a great way to develop mathematical thinking, discussion, and problem solving. The resources have had excellent feedback from schools – why not try them out in your classroom?



Followed at 4.00pm
by...

The YBMA AGM (at the same venue)

Saturday
6th June 2015
3pm for 3.30

The Summer Meeting

Dr Peter M. Neumann – MA President

*University of Leeds,
Parkinson Building
SR (B.09)*

How hard can mathematics be?'

This talk will be based on a new masterclass developed for Y10 children. The idea is to show the students how much harder it is to factorise numbers than to multiply them, and lead them into the beginnings of the subject called computational complexity.

Where to find us

The majority of our meetings this year will be held at the University of Leeds in Room 9.301, Physics Research Deck, E.C.Stoner building (temporarily Maths MALL 1 for 2014/2015). Use Entrance 3 on the north side of the E.C.Stoner building. In case of any difficulty on the day, please phone: 07807 669 497.

The university is well signed from all major routes into Leeds. *For internet maps and satellite navigation the postcode is LS2 9JT.* The best entrance to use if travelling by car is the one located on the A660 (Woodhouse Lane).

Enter the campus immediately next to the Parkinson Building (the large white building with a tower) and follow the road round to the left past the entrance barrier. Shortly after a speed bump you follow the road into a left turn.

After 100m the road bears right and after a further 50m downhill you can turn right under the 'building on stilts' where you may park. Alternative parking is available opposite the building on stilts.

Enter the E.C.Stoner Building using **Entrance 3 on the north side of the building**, then follow the signs.

A map is available from the YBMA website
<http://www.ybma.org.uk/program.php>.

The University charges £5 for parking on a Saturday unless you are attending a University event. Please have this YBMA programme with you to show at the barrier, though we cannot guarantee that they will waive the charge.

The Yorkshire Branch of the Mathematical Association

Programme for 2014/2015

- Most meetings this year are held at the University of Leeds unless stated otherwise. Please see the back page for more details.
- Refreshments are usually available before the meetings start.
- Membership of the Branch costs £5.
- Non-members are welcome to attend meetings though a charge of £1 will be made on each occasion to help to cover expenses.
- Members are reminded that their names and addresses are stored electronically. If they do not agree to this, they should contact the Secretary immediately.

President

Alan Slomson

Secretary

RG (Bill) Bardelang

Treasurer

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