



Making the most of mathematical talent

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TRANSSPORT & PARKING
The Haden Freeman Concert Hall is in the Royal Northern College of Music. It is less than ten minutes walk from Oxford Road station. The main entrance to the building is on Booth Street West, not Oxford Road. Coaches can drop off and pick up students at the entrance, but will need to find coach parking elsewhere. There is a map at www.rncm.ac.uk

To confirm your booking you will need to send your cheque to us with the booking form (overleaf) within three weeks of your provisional booking.

provisional bookings:

You can provisionally book seats by e-mailing info@mathsinspiration.com or by telephoning Elaine Standish on 020 8693 9259 with your name, address, the event (Manchester), and the number of seats you would like. We only accept bookings from schools or colleges. There is an upper limit of 33 seats per school (including teachers) for

BOOKING

Maths Inspiration

For Sixth formers and Year 11s

At the Haden Freeman
Concert Hall, Manchester

Friday 30th November 2007

Mark Lewney, David Spiegelhalter,
John Roberts, Claire Ellis

...reveal that Mathematics does
have a life beyond A Levels

1pm - 3.45pm

£5 per head (1 adult free per 10 students)

Places are limited, so book early!

www.mathsinspiration.com

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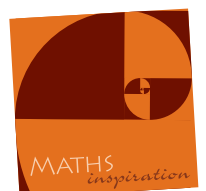
What the teachers said last year:

"There is a new spring in our
Maths lessons!"

"It really inspired the students
and the teachers"

"So important to see maths out
of exam context"

"Thank you for yet another
superb show"



Maths Inspiration

For Sixth formers and Year 11s

Chaired by **Claire Ellis**

David Spiegelhalter:
The Subtle Science of Uncertainty

Do you know what you will be doing tomorrow? What about in ten year's time? Living with uncertainty can be unsettling, whether it concerns future exam grades, passing the driving test, or your football team's battle with relegation. David Spiegelhalter will try some probability tricks (which have a chance of going wrong) and give examples of risky behaviour to help you understand, and even enjoy, your own uncertainty.

John Roberts: *The Maths of Rollercoasters*

Rollercoasters are designed for fun, but the maths behind them is deadly serious. In this talk, internationally renowned rollercoaster engineer John Roberts looks at the history of rollercoasters and the engineering calculations that have gone into designing some of the world's leading rides. In short, it's all about maximising the thrill while minimising the nosebleeds.

Mark Lewney: *The Maths of Rock*

Rock guitarist and rising media star Mark Lewney explains the maths of rock using riffs from Vivaldi to AC/DC and shows how string vibrations might lie at the heart of the Big Questions about the universe. In this mind-expanding lecture, Dr. Lewney explains mathematical vibrations with the help of props as diverse as an air-bazooka, a bullwhip and his custom Ibanez electric. This introduction to Superstring Theory shares the excitement of grand scale, cutting edge maths.

Who's who?

David Spiegelhalter has always been fascinated by the feeling of not knowing what is going to happen. He therefore rejoices under the title of the University of Cambridge Winton Professor of the Public Understanding of Risk. He likes walking, talking, and does not buy lottery tickets.

John Roberts is based in the Manchester office of Jacobs, an international engineering firm. He is one of the UK's leading theme park engineers, with projects including the London Eye, and the 'Big One' at Blackpool Pleasure Beach. He is also a visiting professor of Engineering Design at Manchester University.

Mark Lewney has a PhD in guitar acoustics from Cardiff. He was the first winner of *FameLab*, a national competition to find the new faces of science communication. Mark has appeared on CBBC's *Xchange!* (as the "Rock Doctor"), Channel 4 and BBC Radio 4.

Claire Ellis has been involved with Maths Inspiration from its first event back in 2004. Her degree was in Genetics, and for two years she was responsible for the schools Enigma project. She spent the last year in Guatemala studying the mathematical systems of the Mayans (among other things).

Booking form: Manchester

Please complete and return this form to:

Maths Inspiration, 18 Colwell Road, London SE22 8QP

I would like: Seats

No. of Student Seats: x £5 = (£) (A)

No. of Free Adult Seats:
(1 adult seat free for every 10 pupils)

No. of Paying Adult Seats: x £5 = (£) (B)
(eg 25 pupils with 4 adults means 2 paying adults)

I enclose a cheque made payable to
'Maths Inspiration' for (£) (A + B)

Name:

School:

School Address:

Telephone Number:

Email Address:

