



MATHEMATICAL EDUCATION ON MERSEYSIDE

Registered Charity no. 517028

ORBITER

2020
SEPTEMBER

MEM Orbiter can be downloaded free of charge from www.mathsmerseyside.org.uk

CORONAVIRUS ANNOUNCEMENT No face-to-face events are planned before Christmas. Details of how to join online events will be available on the websites in good time. All events are free.

MEM website: www.mathsmerseyside.org.uk/

LivMS website: www.livmathssoc.org.uk

Liverpool Mathematical Society



Popular Lecture:

**Simulating crowds:
before, during and after
the pandemic**

Aoife Hunt

Thursday 19th November 2020

17:00 - 18:00 ** ONLINE **



As the world's population has grown and our cities have filled with people, simulating the movement and behaviour of crowds became

more essential than ever. Not only for our safety and security, but for our enjoyment and how we experience a space. Since the start of the current pandemic, the concept of risk in crowded places is changing. It is not just a question of how to keep people safe from congestion but how to keep people spaced apart to reduce risk of transmission. Having been instrumental in the movement analysis of people in events across the world, Dr Aoife Hunt explores how maths, simulation and big data have improved our planning in the pre -and post- COVID world.

Suitable for Yr. 11 and up, and teachers

Full details of this event and more can be found at: www.livmathssoc.org.uk/

Join LivMS You can join as an individual, or your school or college can join as an institution. Membership of the Society is particularly important at this time as our funding for the future is in doubt, so please join if you can. If you are able to pay more than the standard subscription, any additional amount paid will be treated as a donation, for which the Society will be most grateful. To join, please go to www.livmathssoc.org.uk Membership is free for students.

LivMS Bursary Fund (charity no. 1156909). Bursaries up to £500 for teachers and students are available - more information at www.livmathssoc.org.uk.

At this time, the trustees will give preference to imaginative projects designed to help in dealing with the problems associated with COVID-19. **Next deadline: 31st October 2020**

The FunMaths Roadshow continues to be available as a download (not currently as a CD); payment can be deferred. Schools, having purchased the Roadshow, are free to adapt puzzles and make them available for their own students to work on at home or in small groups in school. Go to www.livmathssoc.org.uk for more information and to order.

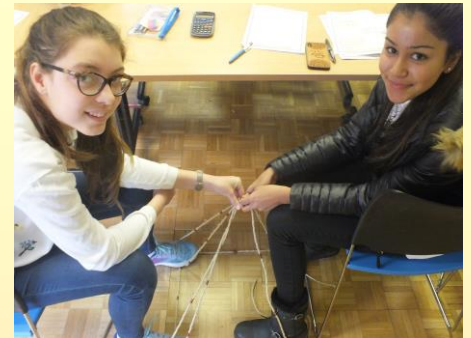
LivMS Christmas Lecture We hope to provide something **online** in December this year

Simon Singh's

lecture has been postponed to December 2021



MEM Masterclasses 2020



The usual series of Saturday Masterclasses for Y8 or Y9 pupils has been cancelled.

Please check the MEM website www.mathsmerseyside.org.uk/ for details of take-home Masterclass activities which we hope to make available from **October half-term**.

Free maths tutorials for UK students in Years 8 and 11 led by Simon Singh

- parents and teachers please nominate your students:

<https://talent-ed.uk/the-maths-masterclasses/>

Don't delay, the deadline is 9th October 2020

Looking ahead to 2021

MEM Challenge & Senior Challenge, and LivMS Open Challenge will go ahead as normal over February half-term 2021

LivMS Sixth Form Pop Maths

Quiz will go ahead either at LJMU Byrom Street as normal, **or online**, early in March 2021

MEM and LivMS are pleased to acknowledge generous financial help received during the past 12 months from P.H.Holt Foundation, Liverpool Hope University, Liverpool John Moores University, Mercer, University of Liverpool, and W.H.Smith Promotions Ltd.