



MATHEMATICAL EDUCATION ON MERSEYSIDE

Registered Charity No. 517028

2023

ORBITER

JANUARY

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

Liverpool Mathematical Society (LivMS)



Membership of the Society is important to us, so please join if you can:

<http://www.livmathssoc.org.uk/cgi-bin/sews.py?Membership>

Popular Lectures

Thursday 02 February 2023

17:00 to 18:00PM - online

Fine Arts and Mathematics

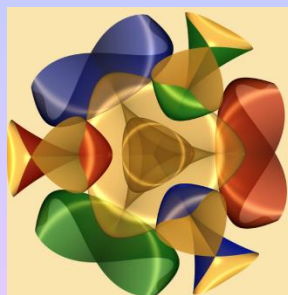
Professor Ivona Grzegorzcyk

Ivona Grzegorzcyk is a Professor at California State University.

Suitable for Year 11 up and anyone interested in Mathematics and/or Art

Registration is now open via [Eventbrite](https://www.eventbrite.com)

Full details: [here](#)



To understand the mystery and complexity of various artistic designs one has to understand mathematical rules governing their creation. We start by

exploring repetitious patterns and Escher-type geometric designs. Using symmetries and other recursive rules we study plane and 3D patterns, including fractal structures. Visualizing solutions of equations, we study beautiful images of algebraic surfaces and their properties. Please bring colour pencils, a compass and a ruler. Ivona Grzegorzcyk's Faculty webpage may be found [here](#).

Advance notice

PRESIDENTIAL LECTURE

Wednesday 17 May 2023

1700 to 1800 - venue tbc

Phi, phyllotaxis and Fibonacci

Damian Haigh
(Head Teacher, UoL Mathematics School)

[Details can be seen here](#)

MEM Challenge & Senior Challenge, LivMS Open Challenge

Copies of these **take-home competitions** for pupils in **Y7/8** (Challenge), **Y9/10** (Senior Challenge), and **Age 18 and under** (Open Challenge) will be mailed directly to Heads of Maths in all secondary schools by 31 January 2023, and can be **downloaded** from the websites below. They should be made available to pupils over **February half-term 2023**. Participation is **FREE**.

Further details at www.mathsmerseyside.org.uk/ and www.livmathssoc.org.uk/



MEM Y8/9 Masterclasses

The 2022 Series was held face-to-face with 59 pupils attending at 4 venues on 4 Saturdays. Demand for places was very high and pupils who were unable to get a place were directed to the LivMS website:

[FunMaths Roadshow Home Activities](#)

Advanced Maths Support Programme (AMSP)

Core Maths Winter Festival talks (online)

<https://amsp.org.uk/event/8254/>

No prior experience or knowledge of [L3 Core Maths](#) is required.

All sessions are free but you should **register in advance**

Thursday 26 January 2023 4:15PM

Modelling & Estimation #10635

Saturday 28 January 2023 9:30AM

Infographics #10636

Wednesday 01 February 4:15PM

Realistic Maths #10637

<https://amsp.org.uk/event/8254/>

LivMS Sixth Form Pop Maths Quiz

The 19th annual Pop Maths Quiz will take place both online and face to face at Liverpool John Moores University Student Life Building on

Saturday 11 March 2023

10:00AM to 2:00PM tbc.

Put the date in your diaries and keep an eye on the LivMS website for updates: www.livmathssoc.org.uk/

LivMS FunMaths Roadshow

This very popular resource is available as a download in English and Welsh versions. For more details and to order go to www.livmathssoc.org.uk/ and click on **FunMaths Roadshow**.

A selection of these activities for use at home can be downloaded (free!)

Contact MEM

www.mathsmerseyside.org.uk/

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Kerrie Evans

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LivMS Bursary Fund

The next deadline for applications is **31 January 2023**, when we expect to award bursaries of between £50 and £300 (in exceptional circumstances, up to £500). For further details go to

www.livmathssoc.org.uk

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