

MATHEMATICAL EDUCATION  
ON MERSEYSIDE

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# ORBITER

September  
2004

KEEPING MATHS EDUCATION PROFESSIONALS IN TOUCH

## A new look for the new term!

### Contact us

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MEM President:  
Dr Ian R Porteous  
MEM Chairman:  
Mr Barry Grantham  
MEM Secretary:  
Mr Benjamin Margetts  
LMS President:  
Prof. Peter Giblin  
LMS Secretary:  
Mr Phil Bamber

### Quick Calendar

#### September:

- 17<sup>th</sup> Last nominations for MEM Masterclasses.
- 25<sup>th</sup> Liverpool University Maths Club commences.

#### October:

- LMS GCSE Review Meeting.

The Orbiter has a new look – throughout you'll find essential information for the term ahead. We want you – the Mathematics teachers of Merseyside - to let us know what you think!

You can contact us via email, phone or post  
Most important however is that you feel the Orbiter is your newsletter. If you have an article for us ...get in touch!

### MEM Masterclasses 2004

Autumn Masterclasses are back. The sessions are here to challenge and stimulate the minds of budding young Y8 & 9 boys and girls, who are enthusiastic about Maths.

**We still have a few vacancies,** so if you have any nominees please contact :  
Ian Porteous  
[porteous@liv.ac.uk](mailto:porteous@liv.ac.uk)

ASAP, places will be filled on a first come, first served basis.

The first session is on Saturday, 9th October, at The University of Liverpool. The subsequent four sessions will be fortnightly including Masterclasses at Liverpool John Moores University & Liverpool Hope University College.

### Liverpool University Maths Club

The club has now been running successfully for many years and is ideal for pupils of GCSE standard or above, who are keen to take on substantial maths challenges. They need to be able to attend sessions one Saturday morning per month during term time.

This term's sessions begin on the morning of Saturday, 25<sup>th</sup> September, followed by 30<sup>th</sup> October, 27<sup>th</sup> November. Undergraduates and postgraduates are involved in the club as well as academic staff. Members should arrive between 9.30 and 10.00, with an anticipated finish of 12.30. Followed by a quality sandwich lunch for everybody including any escorts pupils may have.

The Department will need to know numbers for catering, so it is essential new applicants should contact us using the application form attached ASAP.

Existing members have their membership extended automatically (unless they withdraw or do not attend for a whole term).

More details are available from:  
David Lewis  
[d.m.lewis@liv.ac.uk](mailto:d.m.lewis@liv.ac.uk)

[www.maths.liv.ac.uk/~mathsclub/](http://www.maths.liv.ac.uk/~mathsclub/)

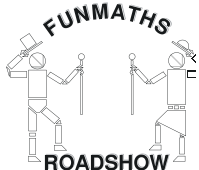
MEM is pleased to acknowledge generous financial help received during the past 12 months from:

**MERCER**

Human Resource Consulting



+The Holt Charitable Trust+W.H.Smith Promotions Ltd+  
+Liverpool Hope University College+The University of Liverpool+  
+Liverpool John Moores University+

<p style="text-align: center;"><b>Shop</b></p> <p style="text-align: center;"><b><u>Senior Challenge, 1980 – 2003 on CD</u></b> <b>£10 (p&amp;p included).</b></p> <p>A full set of questions and answers is now available with original Peter Ackerley Cartoons on CD.</p> <p>To obtain a copy please send a cheque payable to:</p> <p><b>Mathematical Education on Merseyside</b></p> <p>for the attention of Prof. Peter Giblin at the usual MEM address.</p>	<p><b>Challenge 2005/ Senior Challenge 2005</b></p> <p>Full details of the two competitions will be circulated in our January Orbiter. Names of those who will be responsible in each school will be needed quickly, so please consider this in good time.</p> <p>We welcome the submission of questions (with solutions!) please contact :</p> <p>Prof. Peter Giblin <a href="mailto:pjgiblin@liv.ac.uk">pjgiblin@liv.ac.uk</a></p> <p>or at the MEM postal address</p> <p>Volunteers for the competition committees would also be welcome.</p>	<p><b>ATM</b></p> <p>Anybody interested in local Association of Teachers of Mathematics activities or resources is welcome to contact Sue Humphreys at:</p> <p>Wirral Professional Development Centre, Acre Lane Education Centre, Bromborough, Wirral, L62 7BZ</p> <p><u>Tel:</u> 0151 346 1182</p>
<p style="text-align: center;">   <b>Funmaths Roadshow</b>  <b>Boxes 1 to 8 on CD</b>  <b>£10 (p&amp;p included).</b> </p> <p>The Funmaths Roadshow features pdf files of increasingly challenging maths problems for Y5-12.</p> <p>All that you need can be found on the CD.</p> <p>There are baseboards to be enlarged to A3 and laminated.</p> <p>Templates and shopping lists are included for additional materials.</p> <p>To obtain a copy of the CD please send the attached form with a cheque payable to:</p> <p><b>Liverpool Mathematical Society</b></p> <p>We anticipate French &amp; Welsh language versions will be available from Easter 2005.</p>	<p><b>MEM Orbiter Circulation</b></p> <p>Copies of the Orbiter are sent to Heads of Maths in every secondary school we know of in Merseyside, Cheshire, North Wales, the Isle of Man, the nearer part of Lancashire and schools and colleges with relevant specialisms.</p> <p>It also goes to every member of the Liverpool Mathematical Society, and to anyone who has expressed an interest in receiving a copy. It is not feasible to circulate all primary schools in our area, but we are happy to include any that ask to be on our list.</p> <p>We are also happy to circulate colleagues who are not from a Mathematical background, but coordinate G&amp;T programmes and would find the Orbiter helpful.</p> <p>Your full contact details with affiliation, address, post code, telephone number, email etc should be sent to Mrs Ann Newstead at the MEM address.</p>	<p><b>MEM History</b></p> <p>In late 1975 a meeting of Heads of Departments for Maths across Merseyside was held.</p> <p>As a result a decision was taken to form Mathematical Education on Merseyside as an organisation independent of any school or university. The hope was that MEM would act as bridge between HE, secondary schools, primary schools, advisors etc.</p> <p>MEM is a registered charity and has been lucky enough to have enjoyed the support of many sponsors over years including amongst our current sponsors - Mercer HR Consulting &amp; Alliance &amp; Leicester.</p> <p>MEM has a number of yearly activities to complement the work of LMS. These include:</p> <p><b>Challenge</b> for Y7 &amp; 8 - this is a set of about nine questions sent out on request in February each year. Challenge has been running since the 70's, with some 3,500 entries each year. Around 100 prizes are awarded at a prize giving held at the University of Liverpool</p>
<p><b>Going Electronic</b></p> <p>From September the Orbiter will be available online for all in pdf format. In addition all reply slips and application forms will be accessible in Word format from:</p> <p><a href="http://www.maths.liv.ac.uk/~mem">www.maths.liv.ac.uk/~mem</a></p>	<p><b>Can we get in touch?</b></p> <p>Do we have up to date contact details for you? Email, phone, fax, address etc</p> <p>Keep in touch with all the latest news</p> <p>Contact us at: <a href="mailto:orbitereditor@merseymail.com">orbitereditor@merseymail.com</a></p>	<p><b>Senior Challenge</b> for Y9 &amp; 10 – this is a natural progression from Challenge and is also sent out in February.</p> <p><b>Masterclasses</b> for enthusiastic young Mathematicians in Y8 &amp; 9. These have been running successfully since 1991.</p>

**Liverpool University Maths Club (September 2004)**

Surname \_\_\_\_\_ First Names \_\_\_\_\_

Year of Study \_\_\_\_\_ Gender **Male / Female** (Please circle)

School or College \_\_\_\_\_

Home Address \_\_\_\_\_

\_\_\_\_\_ Postcode \_\_\_\_\_

Home Telephone \_\_\_\_\_ Email \_\_\_\_\_

I am keen to be a regular member of the Liverpool University Maths Club.

I expect to stay for the sandwich lunch on 25<sup>th</sup> September **Yes / No** (Please circle)

Signature \_\_\_\_\_

Signature of  
Parent or Guardian \_\_\_\_\_

Please return to Dr David Lewis as soon as possible:

**MEM, Department of Mathematical Sciences, University of Liverpool,  
Peach Street, Liverpool, L69 7ZL.**