P The Eternal Triangle

Feuerbach rubbing shoulders with giants such as Euclid and Euler . find a few surprises as well as results of great beauty, with lesser known names such as Morley and We shall go for a stroll through the wonderful world of triangle geometry. On our travels we shall Adam McBride

0 What? Not another Whistle Stop Tour!

resources shared will be available via drop box and most are easily adaptable for different ages and be. Be ready to complete some maths, win some prizes and enjoy working together. All the During this session will try out a variety of activities designed to engage pupils in their learning, develop their understanding and problem solving skills, and also to realise how much fun maths can abilities. Rachael Horsman

For your record

MA Bookstall

A stall will be available for delegates to see the wide range of material which is non-members to join. produced. It will be an opportunity to buy at special conference rates and also for

Come prepared!

Preview at:

http://www.m-a.org.uk/jsp/index.jsp?lnk=910

Secondary Education Mathematics The Mathematical Association Conference

MATHEMATICAL ASSOCIATION

Saturday 6th September 2014 Pathfoot Building, Stirling University

PROGRAMME

09:00-09:30	Registration and Coffee
09:40-10:20	Keynote Address: Lynne McClure
10:30-11:20	Talks/Workshops/Discussion Groups 1
11:25-12:15	Talks/Workshops/Discussion Groups 2
12:15-13:15	Lunch
13:20-14:10	Talks/Workshops/Discussion Groups 3
14:15-15:05	Talks/Workshops/Discussion Groups 4
15:10	Depart: Tea and Coffee available

IMPORTANT INFORMATION FOR APPLICANTS

No invoices will be sent – so please do not ask

address required). Fees are non-returnable. Receipt of the conference fee will book your place, and confirmation will be sent by email (email

Cheques should be made payable to The Mathematical Association and sent to:-

Marcia Murray (2014 Stirling Conference) 259 London Road Tel 0116 2210013 Leicester LE2 3BE The Mathematical Association

An application form is enclosed.

PROGRAMME

Keynote Speaker:

associated assessments change.

Lynne will explore what happens to teachers' expectations when curricula across the UK and the

Changes to the mathematics curriculum: threat or opportunity?

(President of The Mathematical Association)

Lynne McClure

lived in Scotland where she worked with beginning teachers at Edinburgh University, and led her own very successful consultancy into maths education which took her all over the world. Until last year Lynne was a Lynne was appointed as NRICH project director in March 2010. Immediately before joining NRICH, she

member of ACME, the advisory group which consults to ministers. She recently chaired the redrafting

groups for the primary and secondary English national curriculum documents for mathematics.

For programme updates visit: www.m-a.org.uk

OPENING SESSION

Find provide Feedback from the 2014 AH Maths paper, how it can help teachers better prepare pupils for the 2015 exam and the changes for the new qualification from 2016 onwards.	Caesar cipher to the RSA cipher. We will also look at some of the mathematical challenges facing cryptographers.
O) 14, 15, 16	With the advancement of computers and the ever growing need for data to be kept securely, a construction of the computers and the ever growing need for data to be kept securely.
to their result? Plus how to make a difference in your marking for feedback, prelims and evidence.	G) A brief history of cryptology
(iv) Our and INCW. INCOLOR What is the difference? What makes a difference to your learners and what can make a difference What is the difference? What makes a difference to your learners and what can make a difference	iPads to have hands-on experience. You do not need to have any experience using an iPad in a classroom, just a curiosity in how this technology can be utilised.
	College Maths Department to encourage Higher Order Thinking Skills. We will look at apps including Socrative, Explain Everything, Inspiration and others. This workshop will have a set of
This session will provide a tour of what is available.	<i>Fiona Provan</i> This workshop will look at some iPad apps and iPad based activities used in George Watsons'
M) Using the Numeracy SSLN Professional Learning Resource	F) Promoting Higher Order Thinking Skills in Maths using Apple iPads
I have seems quite relevant given that cooring is being given greater prominence at the moment, so bases 2 and 16 are important. If you would like to see how it runs and some of challenges the pupils face then come along and join in!	E) Dynamic investigational approaches to teaching and learning Calculus Alan will demonstrate one of his favourite topics: how to introduce and develop Calculus.
•	Proofs and some questions designed to make you wonder.
L) How to teach any number base in 10 minutes	Be prepared for a new mixture (as always) of tascinating items, any one of which you could fit into a class programme somewhere, sometime. Topics for this talk include Euclid s Bridge of Sighs, Card tricks and Markov Chains, Numbered Pentominoes, Polynomial Expansions, further Unusual
Auson Auate In this workshop, Alison will share some of the latest Secondary resources on NRICH and explore how they can be used in the classroom.	D) Rigour & Recreation Clive Chambers
K) Using NRICH tasks in the classroom	Stirling Conference, he'll blether about two of his biggest passions; imparting excitement about Maths to his students and sharing creative lesson ideas with other teachers from across the planet!
I feel ill and haven't time to prepare properly?	Chris Smith teaches Maths at Grange Academy, Kilmarnock. In his debut session at the MA
I am suddenly told to cover a Maths class for which no work has been set? I am driving to work and realise I haven't prepared for one class?	C) Forget Greek MythologyHere's Geek Smithology
J) What do I do if ? Fiona Allan	Using social networking, collaborative learning, ICT and others
candidates are prepared for the New No Higher Mathematics Exam.	From Twitter to Twig this workshop will look at different ways Alness Academy Maths department is trying to engage and motivate pupils from S1-S6.
Monca will present North Lanarkshire's agreed order of topics for the new CfE N6 Higher Mathematics Course. She will outline the order of topics, timings, resources, the use of assessment and revision materials which will give you a complete learning and teaching structure to ensure	B) Engaging and motivating young people in mathematics <i>Fiona Phillips</i>
I) Teaching the New N6 Higher Mathematics Course Monica Kirson	What is the Scottish Survey of Literacy and Numeracy (SSLN)? What was the national picture of numeracy and what are the key priorities for improving numeracy? Why was the SSLN Numeracy Professional Learning Resource produced and how can it be used to support numeracy development?
based on the work of Susan Wall, Malcolm Swan and Anne Watson.	Carol Copstick
During this session we will be exploring some examples of redesigning common questions to create rich tasks involving multiple representations, learner generated examples and solution methods	A) Scottish Survey of Literacy and Numeracy – What do the results tell us about numeracy across Scotland and addressing key areas for development?
H) Creating 'rich' tasks Helen Martin	Workshops/Talks/Discussion Groups

Continued overleaf