



NANAMIC Update September 2016

Welcome to the new academic year. This newsletter contains information and opportunities which we are sure will be of interest to you and your colleagues.

NANAMIC Annual Conference

This year's conference took place at Stoke-on-Trent College on Monday 11 July. The theme and keynote address were on the subject of Motivating Mathematics Learning. Reports on each of the presentations can be found on the NANAMIC [website](#).

Our conference this year included input from Stoke on Trent College and a significant number of their staff attended. We are looking for other colleges to act as host in the coming years. If you would like your college to be considered as a possible venue, please email admin@nanamic.org.uk, in the first instance, to discuss this.

The Annual General Meeting took place during the conference. The trustees and financial reports were approved and can be found on the Charity Commission [website](#).

We welcomed Ranwinder Birring, who was elected as a trustee, and we are pleased to acknowledge Peter Johnstone, Mudassar Khurshid and Peter Whitehead, who have been co-opted as committee members.

We also said goodbye to two trustees and our administrator. Fiona has been a committee member since 1998, Joan since 2001 and Lesley has been administrator since 2004. We wish to pay tribute to all three and to thank them for their input over many years.

Fiona Allan joined the committee in 1998 and served as vice-chair 2004-7. She has been a valuable member of the committee throughout this time and her knowledge of the national scene, through her work with the NCETM, has been very helpful.

Joan Ashley joined the committee in 2001 and served as secretary 2004-10. For the past few years she has been chair of the Conference and Training Subcommittee. Her work has been very 'hands on' and she has been a driving force in organising the last few annual conferences. She is continuing to be 'available' to us and we will make use of her expertise, especially in developing new resources.

Lesley Way is well known to many of you. She joined the committee as administrator in 2004 and she continued in that role until we became a CIO. We were advised that, as an employee, it would be best if she were not a trustee. However, she has continued to attend committee meetings and to provide valuable input. Lesley has decided to retire. We wish her, and her husband Cliff, all the very best for the future.

For those in London and the South East

Local Leaders of Maths Education (LLME)

South East Regional Conference

A Maths Hub Collaborative Event

Friday 23 September 2016

Holborn Bars

138-142 Holborn, London EC1N 2NQ

Context

There is already an established network across the country of SLEs, PD leads, CPD Standard Holders, MaST, LA Advisors, Maths Hub workgroup leaders, Primary Mastery Specialists and other lead professionals. This key group of “**Local Leaders of Maths Education LLME**” are all working with schools in various contexts and many (though not all) will no doubt be connecting with their local maths hub. Consequently, there is a clear need to provide ongoing support for this important group of system leaders and further develop ways of working together.

Aims

The overarching aim of the day is to support Local Leaders of Mathematics Education through:

- providing a forum for colleagues to meet and network with other Local Leaders of Mathematics;
- helping LLMEs to assess and develop further understanding of the changing landscape of mathematics education;
- exploring the mathematics-specific needs of teachers locally and nationally;
- identifying current provision and any gaps there might be in that provision, both now and likely to occur as a result of planned changes;
- developing recommendations for future provision and exploring ways of achieving these.

In addition, there will be opportunities to:

- identify and explore some of the needs of Local leaders of Mathematics Education;
- learn about relevant national and local developments in mathematics education;
- hear about the work of other Local Leaders of Maths Education through workshop sessions.

To reserve your **free place** please email mathscourses@whs.bucks.sch.uk stating your

- name
- email
- current role e.g. SLE, NCETM PD Lead, Independent Consultant
- employer/organisation

Anyone reserving a place and **failing to attend the event will be invoiced for £50**

Agenda

1000 – 1030 Tea/coffee and registration

1030 – 1040 Welcome and introductions

Julia Brown, Bucks, Berks and Oxon Maths Hub, James Coughlan, Central Maths Hub

1040 – 1120 Keynote: The challenges in Mathematics Education

Vanessa Pittard Head of Maths Education DfE

1120 – 1200 Discussion groups: The Role of a LLME

1200 – 1300 Teaching for Mastery

Debbie Morgan, Director for Primary for NCETM

1300 – 1345 Lunch and networking

1345 – 1430 Workshop session 1

1430 – 1515 Workshop session 2

1515 – 1530 Reflection

1530 – 1545 Plenary: LLME: Taking forward the challenge

Charlie Stripp, Director of the NCETM and Chief Executive of MEI

1545 – 1600 Refreshments and Close

Workshops will include the latest update on the new A level and Core Maths

Contextualising post-16 GCSE Mathematics

MEI is running this course at the National STEM Learning Centre at York on 13-14 October.

Full details are available [here](#).

A very generous ENTHUSE bursary covering the majority of the costs is available to state-funded schools and colleges in the UK.

For those who are teacher educators

You are invited to the annual conference of the Association of Mathematics Education Teachers on Saturday 15th October 2016 at the University of Manchester.

Keynote speakers are Tony Brown from Manchester Metropolitan University and Jane Jones, Chief HMI for mathematics. The conference will include workshop sessions and an opportunity for **teacher educators** to share their experiences of mathematics teacher education and the conference is open to college, university and school-based mathematics teacher educators.

Bookings are made through this [link](#).

Please note that will be invoiced for the cost of the conference rather than the conference fee being collected via Eventbrite. Therefore, the Eventbrite page will say that the conference is free. Sadly, it's not!

Qualified Teacher Learning and Skills (QTLS)

Registration is open from 1st September to 31st October for teachers wishing to obtain the QTLS status. For more details, visit the [ETF website](#).

NCETM Secondary and FE Newsletter

The latest **NCETM** [newsletter](#) can be viewed on the NCETM website. (You will need to register (free) and log in.) There is some very relevant 'stuff' in here for FE teachers. Previous issues can also be viewed on the website:

- [June](#)
- [July](#)

STEM Learning

The National STEM Centre's latest Secondary and FE Newsletter can be found [here](#).

Grant for STEM teaching of Mathematics

Grants of up to £500 towards choosing a maths activity listed in the online STEM Directories are being offered by the Royal Institution, funded by The Clothworkers' Foundation. The scheme is designed to help integrate maths enrichment and enhancement activities into school practice and to support teachers' professional development. The application deadline is **30 October**. For more information and to apply, visit the [STEM Directories website](#), or contact stemdirectories@ri.ac.uk.

A new IMA - National STEM Learning Centre initiative

Background:

The IMA Maths Careers site (www.mathscareers.org.uk) continues to go from strength to strength, seeing average visitor numbers double in the last two years, with the site now regularly attracting well over 25,000 visitors per month.

The site contains a variety of careers and mathematical based articles aimed at 11 to 19 year old students and their teachers, however there is currently only a limited amount of curriculum linked resources which are aimed at teachers for use in the mathematics classroom.

The National STEM Learning Centre (NSLC) recently launched a new-look website (www.stem.org.uk). The site contains over 10,000 quality-assured resources freely available to teachers. The new website has an increased capacity to showcase articles, blogs and opinions and also allows for the creation of themed resource collections. NSLC is looking to continue to grow its careers related content, in order to support mathematics (and other STEM-subject) classroom practitioners.

New initiative:

The National STEM Learning Centre has compiled an initial series of five collections containing teaching resources that complement a selection of interesting and informative articles found on the Maths Careers website. Each collection is designed to help teachers link a real-world idea or often overlooked career option to the mathematics national curriculum content behind them.

Details of the collections have recently featured on the Maths Careers homepage. Individual lists have been promoted by NSLC through social media, eNewsletters and on the stem.org.uk homepage.

Examples:

All five collections can be found here: <https://www.stem.org.uk/users/maths-careers>. More details can be found below:

[How mathematics helps solve murders](#). Explore how Pythagoras' Theorem and trigonometric ratios are used to analyse the shape and location of blood stains in a crime scene, helping to determine the exact location of an attack in order to piece together an accurate sequence of events.

[The maths of online dating](#). Find out how mathematics helps online dating websites to help people find true love. Your students can explore the calculations and algorithms involved, as well as investigate what makes people attractive with the golden ratio.

[Big Data Careers](#). "...the demand for Big Data staff is predicted to grow by between 13% and 23% each year..." Get your students to handle large data sets and to think analytically to help prepare them for the wealth of future statistical career options available to them.

[The secrecy scare](#). Explore factors, multiples and prime numbers while investigating the encryption methods used by governments, code-breakers and WhatsApp to keep our sensitive data safe from cyber-attacks.

[The mathematics of football](#). Investigate symmetry, 2-and-3D geometry, data analysis or speed, distance, time graphs as well as finding out how to make the perfect football, how to win a penalty shoot-out and the best way to take a throw-in.

Future plans

Given the large number of Maths Careers articles and mathematics resources in the NSLC collection, there is potential to continue to add to the series for the foreseeable future. It is hoped that the project will continue to be mutually beneficial to both organisations, and strengthen the links between the two. Ultimately, we wish to provide teachers with the additional resources they need in order to guide their students towards a STEM-related career path.

From our June newsletter

You may have missed these items over the summer, so I have included links here again.

Girls are more afraid of mathematics than boys in 80% of countries

Read more of this interesting research [here](#).

Unlocking Potential – A report into offender learning

The full report, which includes an executive summary, can be found [here](#).

Are you working with your Maths Hubs? They are not just about schools.

To find your nearest most appropriate hub visit the maths hub [website](#).

NEWS EXTRA

NANAMIC continues to be active on twitter. Please follow us @NanamicCio for the latest news, updates and events.

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