

EDUCATION SERVICES CONFERENCE 2017

THURSDAY 29 JUNE 2017
9.00AM – 3.30PM

THE TOMLINSON CENTRE
QUEENSBRIDGE ROAD, E8 3ND

Inspiring future scientists: the successful elements

KEYNOTE SPEAKERS

Jane Turner

National Director: Primary Science Quality
Mark, University of Hertfordshire

Prof Averil Macdonald OBE,
DSc, D.Univ, CPhys, FInstP, FRSA
Emeritus Professor, University
of Reading

CHAIR

Dr Jane Keeley

Headteacher,
Haggerston School

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CONFERENCE OVERVIEW

WHY THIS CONFERENCE?

Science is in the spotlight.

Ofsted is currently focused on a broad and balanced curriculum that helps pupils acquire knowledge, understanding and skills in all aspects of their education, including scientific learning.

Its report, 'Maintaining Curiosity: a survey into science education' and the subsequent HMCI findings from May 2016 highlighted that practical work enthuses and inspires students.

This conference will provide opportunities for practitioners to learn from each other and improve science provision in their schools.

It is also an opportunity for education professionals to work together to share practice and consider ways that the school science experience can inspire and motivate them to be the scientists of the future.

Academics, subject specialists and practitioners will share their joint expertise through a range of presentation and workshops.

AREAS OF FOCUS WILL BE:

- Sharing practice across KS2 and KS3 to achieve better 'science transition'
- Learn about active approaches to teaching and learning
- Learn about outstanding practice taking place in schools
- Approaches to effective assessment in science
- Opportunities and inspiration for pupils to develop key skills and scientific enquiry
- How to build STEM into your curriculum
- How to increase the number of girls pursuing STEM careers
- How to promote inclusive practice into science education

WHO SHOULD ATTEND?

- Headteachers
- Heads of Science
- Assistant/Deputy Headteachers
- Science Leads and aspiring Science Leads
- Science Teachers

PROGRAMME

09.00 **Registration, refreshments and networking**

09.20 **Welcome and chairs opening remarks**

Dr Jane Keeley, Headteacher,
Haggerston School

09.30 **Primary Science: Updating on the national perspective, Ofsted, innovation and testing.**

Jane Turner, National Director
Primary Quality Mark and Science Curriculum
expert: Standards Testing Agency

Jane will draw on her recent work on English policy initiatives and evidence from over 600 schools that achieved a Primary Science Quality Mark this year, to evaluate the national picture of primary science: the issues both national and local, exciting innovations in individual schools and from UK wide organisations, and inspection and assessment expectations and findings. It's not all doom and gloom: there is plenty to celebrate!

10.20 **Q&A**

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www.hltconferences.co.uk

10.30 **'People like me'**

Professor Averil MacDonald, Chair in Science engagement, University of Reading

Just 13% of science, technology, engineering and maths workers are women (Women in Science and Engineering), despite 30 years of spending time, money and effort trying to encourage under-represented groups, particularly girls, to choose STEM careers.

Professor Averil Macdonald will talk about the myths and the fact about why these groups don't study STEM subjects and she will introduce the revolutionary new approach – 'People Like Me' – which is making the difference.

11.20 **Q&A**

11.30 **Coffee break**

11.45 **Workshop session 1** (*Please see pages 6–10*)

12.45 **Lunch and an opportunity to speak to science practitioners**

13.45 **Workshop session 2** (*Please see pages 6–10*)

14.45 **Ask the Panel**

An opportunity to discuss what issues your schools are facing with the experts. Panel to include, Professor Averil Macdonald, Dr Jane Turner, Dr Jane Keeley and Kate Roberts

15.15 Closing remarks and close of conference

WORKSHOPS

Delegates will have the opportunity to book onto two workshops of their choice. One for the 11.45am session and one for the 13.45pm session. All workshops will be repeated.

1. Have they got it? Assessing conceptual understanding in primary science – without tests

Run by **Jane Turner**, National Director: Primary Science Quality Mark, University of Hertfordshire

(Audience – Primary Schools)

The new National Curriculum for KS1 and 2 Science is clear about what children should be taught to know, understand and do in science. Primary teachers are using many different strategies for assessment for learning, ensuring that children's prior understanding is built on and next steps identified, alongside skill development. Increasingly teachers arrive at summative judgements by using evidence from a range of formative classroom activities. However, teachers report concerns in knowing the meaning of the NC statements and what evidence they need to confidently make a judgment that a child has achieved the statement. How can you be sure that a child has 'got it'? This workshop will share work done by a group of ASE members to break down the NC statements into clear descriptors and develop short, fun activities for teachers to use with small groups of children where they just want to check 'have they got it?'.

2. The virtues of Outdoor Science Learning

Run by **Bob Cooper**, Project Lead for Coaching Science Scholars to Success: An LSEF Project, Science Learning Centre Consortium Central England, University of Hertfordshire

(Audience – Primary Schools)

This is a very hands-on session of practical science experiences for teachers, covering the six areas of scientific investigation in the new curriculum. It is guaranteed to build teachers' confidence in taking science lessons outside, encouraging them to offer more hands-on outdoor science lessons for primary children. Participants will explore how to use their outdoor areas, whatever they may be, for child-led investigations.

Bring a coat, sensible shoes and also an umbrella to play with!

3. The Skills!

Run by **Hackney Teaching Schools**

(Audience – Primary Schools)

Science leads from our Hackney Teaching Schools will showcase a variety of activities covering key scientific skills. They will share innovative activities to enthuse and engage pupils providing them with opportunities to develop their scientific enquiry skills. There will be a carousel of hands on activities to explore, experience and take away to easily implement back into your classroom.

WORKSHOPS

4. Recognising unconscious bias and risks in teaching

Run by **Averil MacDonald**, Emeritus Professor, University of Reading

(Audience – Primary and Secondary Schools)

You'll never teach the same way again! unconscious bias is so entrenched in our behaviour that it's easy to assume that our highly professional approach to students and teaching is totally fair and all students gain equality of opportunity from our lessons. In this session you will look critically at a number of teaching practices and see how our normal approaches can disadvantage some groups. With this insight teachers can make a significant difference to the achievement levels of under-represented groups in our disciplines.

5. Maths in Science

Run by **Melanie Ellis**, Lead Teacher, Science Swavesey Village College

(Audience – Secondary Schools)

With increased mathematical demands of the new GCSE science courses, the need for collaborative working has never been greater. This workshop explores effective strategies for cross curricular planning and developing a common approach to introducing and developing the mathematical principles so that students can apply them in a scientific context.

6. Approaches to Science learning and practical work

Run by **Jo Allen**, Senior Teacher and Head of Science, Blanche Nevile School for Deaf Children.

Jessica Tratt, Head of Science,
The Norwood School

Mhairi Stewart, Subject Leader Science,
The City Academy, Hackney

(Audience – Secondary Schools)

With more content, more depth, limited pathways and change in delivery and assessment of practical work, inclusive science education has become a real challenge. Learn how different schools are adapting their teaching and learning strategies to address the needs of SEN learners, meeting the demands of a linear curriculum with its challenges of long term learning and focus on practical skill development.

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SPEAKER BIOGRAPHIES

Jane Turner

Jane's background is in primary teaching. She is the director of the Primary Science Quality Mark award programme, based at the University of Hertfordshire where she is a principal lecturer and researcher in the School of Education.

Jane has written and contributed to several influential primary science and early years' education publications and research projects. She works as an advisor to the DfE, the BBC and the learned bodies on primary science assessment and curriculum.

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Averil Macdonald

Averil sits on the Women's Business Council reporting to BEIS on the success of the Government's Strategy for Women in Science and is also a Director of the Cheltenham Festivals. She has been a Trustee of the National Museum of Science and Industry, the National Media Museum and the National Railway Museum and previously sat on the Science and Technology Facilities Council Advisory Panel for Science in Society and the Council of the Institute of Physics.

She is the UK representative on the European Physical Society Forum for Physics in Society and the UK representative on the EU Helsinki Group which advises the EU Commission on diversity in research and scholarship.

Averil's drive is in encouraging girls into science and in advancing women's careers in science as she believes it is essential that women have the full opportunity to demonstrate their skills in all spheres.

INFORMATION

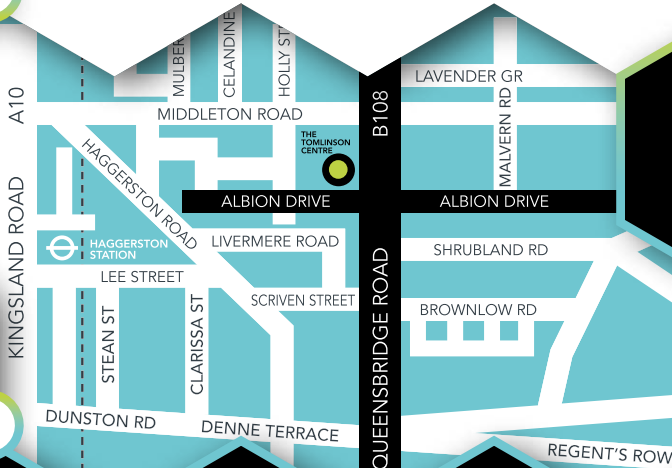
HOW TO FIND US

The Tomlinson Centre is within walking distance of Haggerston Overground station. It is less than one mile from the City, conveniently located between Shoreditch and Dalston. It is serviced by several bus routes passing through Kingsland Road (A10). It is less than five minutes walk from the nearest bus stop.

There are some pay-and-display parking bays close by the centre, in Albion Drive and Middleton Road but the number of spaces is limited. The nearest car park is on Bentley Road, which is an approximately eight minute walk from the centre.

For more information please visit

www.thetomlinsoncentre.co.uk



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marketing@learningtrust.co.uk or post to
 HLT Marketing Services, 4th Floor, 1 Reading Lane,
 London, E8 1GQ.

DELEGATE REGISTRATION DETAILS *(one delegate per form)*

Full name _____

School/Organisation _____

Job title _____

Email _____

Telephone _____

Mobile _____

You will be able to attend two workshops. These will be allocated on a first come, first served basis.

Please select a first, second and third choice.

WOKSHOPS	CHOICES		
	1	2	3
1. Have they got it? Assessing conceptual understanding in primary science – without tests	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. The virtues of Outdoor Science Learning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. The Skills!	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Recognising unconscious bias and risks in teaching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Maths in Science	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Approaches to Science learning and practical work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

By selecting the YES box, I agree my attendance and acknowledge that an invoice of £ £210+VAT (published price) or at a discounted price with a valid promotional code will be sent to me. YES

Signed _____

Date _____

You can also contact us on
020 8820 7474/7254

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**BOOKING
 FORM**

Continued from previous page

QUESTIONS AND SPECIAL REQUIREMENTS

Are there any issues you are currently facing in your school/organisation regarding arts education that you would like to discuss at the conference?

You are invited to let us know what these concerns are here.

Do you have any access requirements? Please leave blank if not.

Do you have any dietary requirements? Please leave blank if not.

INVOICE DETAILS

PO number (if applicable)

Organisation name

Organisation registration number/URN

Contact name

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HOW DID YOU FIND OUT ABOUT THIS CONFERENCE?

Email Mail Flyer Twitter LinkedIn Web advert Referral

CONFIRMATION

Conference places will be confirmed on receipt of your booking form. A set of joining papers will be sent at least one week prior to the event.

Terms and conditions

Please visit www.hltconferences.co.uk

Booking/Payments

All bookings made prior to the conference is a binding agreement to guarantee the delegates attendance. Payment at time of booking is not necessary. Once your booking has been made an email confirmation and a receipted invoice will be sent. Invoices shall be payable within 30 days

of date of issue. All payments should be made via BACS transfer. Where the delegate wishes to pay by cheque, this should be made payable to 'London Borough of Hackney' and sent to the address on the invoice.

Data Protection

London Borough of Hackney is the data controller for the purposes of the Data Protection Act 1998. If you do not wish to be notified about future Hackney Learning Trust conferences and events, please indicate by placing a cross in the box

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