



BEECHWOOD TEACHING SCHOOL ALLIANCE

STEM CONFERENCE

Friday, 30th November, 2018

**Target Audience - SLT, Teachers and Leaders of
Science/Maths/Technology, KS1, 2 and 3**

The primary years are a time where students are developing a self-belief in their ability as a STEM learner. Building a solid STEM foundation through a well-rounded curriculum is the best way to ensure that pupils are exposed to math, science, and technology throughout their educational career. Young children are extremely curious and impressionable - instilling an interest at an early age could spark a lasting desire to pursue a career in any of these fields.

Course cost: £140 to schools within Hamwic Trust

£190 to other schools

Lunch and refreshments will be provided

**Venue: Chilworth Manor Hotel, Chilworth, Southampton, Hants. SO16 7PT on
Friday, 30th November, 2018**

There is plenty of parking on site at the Hotel.

If you would like to reserve a place please confirm to:

lynnefrederick@beechwoodjuniorschool.co.uk

Or

Book through the CPD link on Beechwood Teaching School Alliance website.

8.45AM to 9:15AM	Arrive and Register There is ample parking on site.
9:15AM to 9:30AM	DAVE HARRIS Introduction and welcome
9:30AM to 10:45AM	CHRIS HOYLE "Where to next for STEM & Engineeringthis is about identifying what we do best and finding more ways of doing less of it better," Chris will share practical ways for drawing young people into the everyday world of Engineering. This session will look at how Engineering is a central part of all of all our lives.
10:45AM	BREAK
11:15AM to 12.30AM	CATRIN GREEN "Making science exciting" The science curriculum has changed recently and has become even more content heavy than before. Catrin will look at how to get students to understand complex ideas and content without giving students a 30-minute lecture. She will look at using stories to excite, chunking topics and getting students to practise and think hard as well as providing ideas on delivery.
12:30PM	LUNCH will be provided
1:15PM to 2.30PM	IAN TAYLOR "Making Maths matter" Using research and a mountain of experience in maths, Ian will show techniques and methods that can help pupils develop mastery across the STEM curriculum. Using an approach called the "mastery flow model", Ian will explain how mastery helps students, of all ages to become fluent with the unfamiliar in all subjects.
2.30PM	BREAK
2:45PM to 3:45PM	DAVE HARRIS "Its all about the brain - Wonder, Curiosity and Science" Dave will use the neuroscience of learning along with a collection of interesting artefacts to show how pupils' natural interest in the world of STEM can be used to promote engagement and learning.
3:45PM to 4:00PM	Ask the Panel Dave Harris will ensure the speakers are 'on the spot' to answer any further questions you may have. No-one should leave with an unsolved problem!



Dave Harris

Dave has many years' experience of educational leadership in a number of settings and across all ages. He is passionate about getting education right - and impatient of how wrong we are getting it. The author of books on transition and school leadership, Dave knows from first-hand experience what can happen if we lose sight of the fact that we are human beings first, teachers and learners second. Dave is currently Managing Director of Independent Thinking.



Ian Taylor

Ian has led a team of 22 maths departments across a cluster of challenging schools. His philosophy has clear foundations:

- To develop inspiring and effective lesson using a model of outstanding practice.
- To ensure that children don't just learn maths but they also develop lifelong transferrable skills including career enhancing attributes such as leadership, communication and effective thinking.
- To prove that numeracy can be an exciting, enjoyable, accessible, wonderful experience open to all learners.



Catrin Green

Catrin is utterly passionate about students loving science and believes in really engaging students to think about science. With regards to KS3 and lower, creating awe is the key to spark imaginations and facilitate curiosity. Her vision of science teaching is to excite through stories and demonstrations, to teach content fully with a high level of challenge, and to subsequently develop skills such as research and analytical thinking. Her vision is very much about developing future STEM leaders and ensuring all students are engaged.



Chris Hoyle

Throughout his career Chris was an advocate of practical/applied learning and became nationally prominent in the Engineering and Applied Learning strands of the Specialist School era. The School he led at that time held both Specialisms and achieved recognition as Rolls-Royce Engineering School of the Year and as a "STEM Pathfinder" in the national project. He chaired both the Engineering Expert Panel and the Engineering Headteachers group at this time, and supported/delivered Engineering/STEM INSET for a range of groups including Science Learning Centre and the Institute of Engineers. School practice and outcomes were cited and highlighted in research and best practice done by DfE, SSAT and others at a national level.