

LEGO® Engineering Conference

- for MINDSTORMS® Education

Friday 23rd October 2009
Wembley Stadium – Learning Zone

AGENDA

- 8:30 – 9:00 **Registration**
- 9:00 **Welcome**
Wayne Smith, Wembley Stadium Study Support Centre Manager
- Opening**
Robert Rasmussen
Tufts University Center for Engineering Educational Outreach
- 9:30 **Using MINDSTORMS® in the Primary Classroom**
Ophelia Vanderpuye, ICT AST – Oakington Manor Primary School
- Using MINDSTORMS® in the Secondary Classroom**
Kate Sim, Secondary Teacher, Monks Walk School
- 10:00 **LEGO® Academy Training – A new approach to LEGO® training in the UK**
Mikkel Vahl, LEGO Education
- 10:15 **Engaging girls in robotics – Introducing the Roberta Curriculum**
Gerry Heather, Stempoint Advisor, Bedfordshire & Luton Education Business Partnership
- 10:30 – 11:00 **Refreshments**
- 11:00 **Workshop I**
Bryan Williams & Simon Knapper
- 12:30 – 13:15 **Lunch**
- 13:15 **Workshop II**
Bryan Williams & Simon Knapper
- 14:45 – 15:00 **Refreshments**
- 15:00 **First LEGO® League – An introduction to the competition from one of the UK's leading organisers**
Chris Proctor, First LEGO League
- 15:20 **Using MINDSTORMS® in Engineering & Design Technology**
Bryan Williams, Education Consultant
- 15:40 **Using MINDSTORMS® to engage pupils in Mathematics at Key Stages 3 and 4**
Garry Redrup, Maths Teacher, John Madejski Academy
- 16:00 **How City Learning Centres (CLCs) use MINDSTORMS® to promote good practice in schools**
Stuart Swann, CLC Scheme Manager, Greenwich
- 16:20 **Conference Close**
Rob Widger, Education Manager, DACTA Ltd

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Wayne Smith

The FA Group

Wayne Smith is the current Centre Manger of The Learning Zone @ Wembley stadium. A Playing for Success Centre which works with over 1000 students every year to support key skills, through offering an innovative curriculum.

Wayne is a qualified teacher, who has worked in a variety of different settings, prior to coming to Wembley he was head of Key Stage 2 at the British School of Chicago and before that was a leading teacher in Swindon Borough, where he was also shortlisted for a UK teaching award.

Mikkel Vahl,

LEGO® Education

Prior to joining LEGO Education Mikkel Vahl was a teacher for 7 years. During his time working at LEGO Education he has participated several times in the *First* LEGO League. Mikkel is currently Program Manager for LEGO Education Academy. LEGO Education Academy offers professional development programs to teachers and educators.

Gerry Heather – B.Sc , Dip Ed, Cert.Ed , AMMI, D&T Association Consultant

Gerry Heather works for the EBP in Bedfordshire as a STEM Advisor and provides support for D&T across the county.

His background is Engineering and after joining education he worked in schools and colleges until retiring 5 years ago and joined the EBP part time.

Gerry has used LEGO MINDSTORMS in its various guises for as long as he can remember as a Systems and Control teaching aid. The FLL and Robocup have been used by his students to extend the boundaries of their performance, first as one of the UK pilot schools and then every year afterwards. Gerry carries this on with many more schools in the county as a successful programme. He demonstrates LEGO products every year at the BETT show.

For the last two years he has been the education advisor to the BLOODHOUNDSSC land speed record team with Richard Noble are currently working on using the Data Logging NXT software as a schools simulation for BLOODHOUNDSSC control systems.

He was asked to run one of the two Roberta Centres in the UK by Thorsten Leimbach last year and has been involved in running a number of courses for teachers and students within this interesting EU. programme.

Bryan Williams

Education Consultant

Bryan has considerable experience as a teacher, trainer and senior examiner.

When he first qualified Bryan taught engineering in two inner London schools before moving to Yorkshire where he worked in middle schools before secondment to the advisory service and Schools Council as a technology consultant.

After that he returned to secondary education as a head of technology and lead the process of gaining specialist technology school status. This included initiated vocationally based courses in Engineering and Manufacturing.

He now holds very a senior position with an examination body taking responsibility for Design and Technology and Engineering qualifications, both GCSE and the new Diploma.

More recently he has taken on the role of lead trainer for Engineering and Manufacturing and Product Design Diplomas for the Specialist Schools and Academies Trust, working closely with various bodies including OfQual and QCDA.

Bryan is a LEGO® Master trainer and his CPD work is mainly related to Engineering, Electronics and Systems. Running courses for the DATA Digital DT programme for secondary teachers and Lego MINDSTORMS for Primary teachers.

Garry Redrup

Maths Teacher, John Madejski Academy

Garry is aspiring to be an Advanced Skills Teacher of Mathematics at the John Madejsky Academy in Reading. He came into contact with the NXT robot just 2 years ago through Dr Ashley Green. Convinced that he may be able to use them to make Mathematics come to life and engage learners. With help from Dr Green he is developing rich activities that teachers will feel able to run and pupils will be happy to engage with.

Rob Widger

Education Manager, DACTA Ltd

Rob is the Education Manager at DACTA. He started his career as a primary school teacher. Today his time is divided between teaching people - from teachers and students to distributors and partners - how to get the most out of the LEGO Education® offering, and developing other LEGO projects. For instance, the RoboSoccer project involves collaboration with learning centres at various sports grounds (including the one at Wembley stadium) to develop a robotics package that footie-mad kids can use to play their own robot creations against each other. Rob visits schools regularly in the UK and across Europe to show teachers how to use the LEGO Education products, giving them demonstrations of the Science, Energy and Robotics products that they can integrate into their everyday teaching.