

# STEM Ambassadors – New Opportunities for Engagement.

Please book now and we will contact you closer to the date to check you are still available.

We have a number of opportunities for engagement available from January 2010 onwards detailed below. Please contact us at: [ambassadors@stemteamcambridgeshire.org.uk](mailto:ambassadors@stemteamcambridgeshire.org.uk) to express your interest in any of these activities and we'll get back in touch with you closer to the date to confirm arrangements. If you are not active and none of these activities suit your interests and requirements, please contact us to suggest a talk or activity and we can source the school and opportunity for you.



## Our News

We're really pleased to announce that STEM TEAM Cambridgeshire, STEM TEAM Essex and SETPoint Herts have been awarded the contract to hold The Big Bang Eastern. This regional science fair will be held at Duxford Imperial War Museum on 16th July 2010. This event celebrates work carried out through the British Science Association CREST Award Scheme.

**Chris Styles—Inspirational STEM Ambassador, Teachers TV** <http://www.teachers.tv/video/38108>

Chris Styles, one of our fantastic STEM Ambassadors, was recently featured on Teachers TV as a STEM Career Role Model. Chris is a Senior Applications Engineer at ARM (<http://www.arm.com/>). ARM is best known for developing computer chips for mobile phones.

Chris was working with Linton Village College pupils to use microcontrollers for a number of real world applications. He hopes that using technologies the pupils take for granted will make them think about all the technology around them and perhaps consider a career in this field.

## Girl Leadership Day, 11th Nov 2009

STEM Ambassadors and members of Cambridge Association for Women in Science and Engineering ([www.camawise.org.uk](http://www.camawise.org.uk)) recently took part in an event for 450 girls from both state and independent schools across the region. The event, organised by St. Mary's School, Cambridge, finished with talks from our panel of STEM women.

*"Many many thanks for organising the magnificent final part of the day; it really was a pyrotechnic feast! What was so clearly conveyed by the speakers was their passion for what they do, the range of their jobs, the opportunity to travel and the importance of a flexible approach. I have no doubt that your panel have certainly focused the minds of many students and helped inspire the next generation of key female players in STEM."*

Thank you to all of you for your fantastic contributions during 2009. We look forward to working with you all in 2010.

We wish you a Merry Christmas and a Happy New Year.

Elizabeth, Melanie, Diana, Lucy, Jane, Janet, Denise and Ruth.

## STEM TEAM Cambridgeshire


12, Ronald Rolph Court, Wadloes Road, Cambridge, CB5 8PX, Telephone: 01223 415650

Website: [www.stemteamcambridgeshire.org.uk](http://www.stemteamcambridgeshire.org.uk) Email: [ambassadors@stemteamcambridgeshire.org.uk](mailto:ambassadors@stemteamcambridgeshire.org.uk)



## Opportunities for Engagement with STEM TEAM Cambridgeshire.


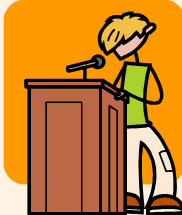
We are now booking activities for 2010. If you are interested in supporting any of these activities, please email us.

STEM TEAM Cambridgeshire Hands On activities		Careers Advice	Evaluating Material and Developing New Activities	Ambassador Training	Judging Competitions	Supporting a Particular School
Date	Venue	Time of Activity	Activity Description		Number of Ambassadors	Age of Children
Ongoing	Bottisham Village College		<b>BTEC Applied Science Course – Physics and Biology Speakers Requested</b> Bottisham Village College would like STEM Ambassadors with physics and biology backgrounds to give talks to their BTEC Applied Science Students.			14-16
Mon 11 <sup>th</sup> January	Perse Prep	08:30- 15:00	<b>STEM Activity Days at Perse Prep School</b> Two days of STEM activities at Perse Prep School for Year 5 and 6 pupils.		4	9-11
Tues 12 <sup>th</sup> January	Perse Prep	08:30- 15:00	The actual activities are still to be confirmed but will probably include our rocket workshop and bridge building.		4	9-11
Thurs 14 <sup>th</sup> January	Great Abington Primary School	08:30- 15:00	<b>Primary Robotics</b> We'll be presenting the science of robotics and building 'jitter bots'.		4	7-11
Thurs 21 <sup>st</sup> January	Thomas Deacon Academy Peterborough		<b>Women in Engineering Showcase</b> Thomas Deacon Academy is asking for female engineers to act as role models. Please register your interest if you would like to be involved.		4	14+
Wed 27 <sup>th</sup> January	St. Ivo School, St. Ives	08:30- 13:00	<b>Insight in to the World of Work</b> Careers Conference for 300 Year 9 and 300 Year 11 pupils. We need Ambassadors who can talk about their careers and opportunities in their fields to small groups of pupils throughout the event.		8	Year 9 13-14 Year 11 15-16
Fri 5 <sup>th</sup> Feb	Bunyan Centre, Bedford	Event runs from 09:30- 14:00	<b>Women into Construction and Engineering</b> ConstructionSkills are organising this Women into Construction & Engineering Event on 5 <sup>th</sup> February They would particularly like women engineers working in the fields of aeronautics, mechanics, electronics etc. to give short talks to groups of female students during the day. Please contact us and we will forward your details.			
Tues 9 <sup>th</sup> February <b>NOTE DATE CHANGE</b>	Freemasons Hall, Bateman Street, Cambridge	08:30- 15:00	<b>The Rotary Technology Tournament</b> Cambridge Rotary Club are organising a one-day D&T Challenge as part of the National Rotary Technology Tournament. Teams of 4 students are given an unseen technology challenge to solve. We need Ambassadors to help us judge final designs and teamwork.		8 	13-14

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Fri 26 <sup>th</sup> Feb	Burrough Green School	08:30-12:00	<b>Rocket Activity</b> We will be building strong structures from paper tubes and launching paper tube rockets with KS2 pupils during this morning activity.	3	7-11
Thurs 11 <sup>th</sup> March	EcoTech Centre, Swaffham Norfolk.		<b>Go4SET from EDT</b> We need Ambassadors to judge projects from pupils taking part in the EDT (Engineering Development Trust) Go4SET scheme. Successful students will be awarded a British Science Association Silver CREST Award. The following schools are taking part this year: Thomas Deacon Academy, Peterborough. Perse School for Girls, Cambridge, The Netherhall School, Cambridge, Abbey College, Ramsey.	4	13-14
12-21 <sup>st</sup> March	Throughout Cambridgeshire		<b>Careers Talks for National Science and Engineering Week</b> <b>We are still getting requests for talks during NSEW, please volunteer a talk and we will put you in touch with an interested school.</b>		
Sat 13 <sup>th</sup> March Science Saturday	Central Cambridge	4 sessions 10:00-11:00 11:15-12:15 13:00-14:00 14:15-15:15	<b>Cambridge Science Festival – Science Saturday</b> This year we'll be making 'jitter bots' and presenting the science of robotics. We would like Ambassadors on the day to help with the hands-on activity. In addition if you work in the robotics industry and can help with images or demonstrations please contact us soon.	15	All ages
Wed 17 <sup>th</sup> March	Duxford Imperial War Museum	10:00-13:00	<b>Science Connections</b> We are supporting IWM Duxford again this year running our rocket launch and a K'Nex challenge. Please register your interest now.	10	5-11
Fri 19 <sup>th</sup> March	Chesterton Community College	08:00-15:30	<b>STEM Activities Day</b> Hands-on activity day for Year 9 pupils. Possible activities running through the day include: hovercraft, bridge build, shelter and Water for the World.		



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Wed 28 <sup>th</sup> April	Project marking By email by 28 <sup>th</sup> April 2010.  Celebration Day RAF Honington, Suffolk.	09:00- 14:30	<b>Engineering Education Scheme</b> We need judges to assess engineering project reports from students taking part in the Engineering Education Scheme from the EDT (the Engineering Development Trust). Successful students will be awarded Gold CREST Awards, the most prestigious award from the British Science Association. We need Ambassadors to assess the project reports before the celebration day. We would also like Ambassadors to come along on the day to talk to the students about their projects. Ambassadors are welcome to do either or both of these! The following schools are taking part this year: The King's School, Peterborough, Thomas Deacon Academy, Peterborough The Netherhall School, Cambridge (2 teams), Cambridge Regional College.	5	16-18
Wed 5 <sup>th</sup> May	Soham Village College	08:00- 15:30	<b>Secondary Robotics</b> We need Ambassadors for a hands-on activity day for KS4 pupils. Pupils build a hexapod robot which they program with an IQ2 board to complete a maze. They also have to research what robots do and prepare a presentation.	4	14-16
Wed 9 <sup>th</sup> June Primary Day	Duxford Imperial War Museum	08:00- 15:00	<b>Duxford Science and Engineering Fair and STEM Exhibition</b> This is a fantastic opportunity to find out about, and take part in some of the activities that STEM TEAM Cambridgeshire offers to schools. It's a great experience to contribute to a large scale event and meet other STEM Ambassadors. Hands on activities to include: kites, mini hovercraft, boats, bridges and themed activities such as the science of bees at primary level	30	7-11
Thurs 10 <sup>th</sup> June Secondary Day	Duxford Imperial War Museum	08:00- 15:00		30	11-16
Thurs 1 <sup>st</sup> July	Westfield Junior School, St. Ives	08:00- 15:00	<b>Rockets and Hovercraft Activities – KS2 Primary</b> A day of hands-on activities for primary pupils, building a hovercraft in the morning and launching rockets in the afternoon.	5	7-11
Tues 6 <sup>th</sup> July	City of Ely Community College	08:00- 15:00	<b>Infrastructure Challenge Day – KS3 Secondary</b> Hands-on activity day for Year 9 pupils. Possible activities running through the day include: hovercraft, bridge build, shelter and Water for the World.	10	13-14

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Fri 16 <sup>th</sup> July 	Duxford Imperial War Museum	09:00-15:00	<b>The Big Bang Eastern</b> We're really pleased to be holding The Big Bang Eastern Regional Science Fair in 2010. This will be a fantastic day. Our Guest Speaker is Lucy Hawking, author and daughter of Prof Hawking and there will be an interactive talk by The Naked Scientists. We need Ambassadors to judge project work for the British Science Association CREST Awards and to run hands-on activities for both primary and secondary age pupils.	20 from Cambridgeshire . We will be joined by Ambassadors across the region	9-18
Tues 20 <sup>th</sup> July	Cromwell Community College, Chatteris	08:00-15:00	<b>Secondary Robotics</b> We need Ambassadors for a hands-on activity day for KS4 pupils. Pupils build a hexapod robot which they program with an IQ2 board to complete a maze. They also have to research what robots do and prepare a presentation.	3	14-16
<b>New for 2009-2010</b>			<b>Computing Science in Schools</b> The <b>Cambridge Computer Science Hub</b> has recently been established to encourage and support the teaching of computer science in schools. Initially we would like Ambassadors who have experience of computing to evaluate the new free <b>Greenfoot</b> Program at: <a href="http://www.greenfoot.org">www.greenfoot.org</a> with a view to supporting its uptake and use in schools..		13+
<b>New for 2009-2010</b>	Ely		<b>Ely Astronomy Club – <a href="http://sites.google.com/site/elyastroclub/home">http://sites.google.com/site/elyastroclub/home</a></b> Mike Stephens, one of our Ambassadors has set up an Astronomy Club in Ely. If you are working in this field and would like to give a talk or support the club in any other way, please contact us.		
<b>New for 2009-2010</b> 	Schools throughout Cambridgeshire		<b>The Great Cambridgeshire Science Debate</b> To encourage more young people to develop skills in research, critical thinking, presentation, public speaking and persuasion, STEM TEAM Cambridgeshire will be holding science debates in schools around the county next year. We'll be providing science topics for pupils to research and discuss and time with Ambassadors to learn both more about the subject itself and how to formulate an argument. <b>If you are interested in being involved working with a particular school and/or providing information on a particular topic, please let us know.</b> email: <a href="mailto:Elizabeth@stemteamcambridgeshire.org.uk">Elizabeth@stemteamcambridgeshire.org.uk</a>		