



## News

# Kent and Medway Schools Enjoy Free Science and Maths Enrichment Activities

Chaucer Technology School, Greenacre School, Marlowe Academy, Queen Elizabeth Grammar School, Spires Academy, St John Fisher Academy, The Abbey School, Ursuline College and Whitstable Community College all had the opportunity of the free enrichment and engagement activities run by Kent & Medway STEM Ambassadors using innovative ways with carousel of activities to promote STEM.

Over 15 STEM Ambassador's visited each school for two one hour sessions facilitating up to 80 Year 7 and 8 students. The activities included James Bond Maths, Physiology and Anatomy and Degeneration, Designing Rollercoasters, Shipwreck/Airplane-Crash Themed Maths, Olympic & Ostrich Evolution Science as well as Jelly Cells.

Unsurprisingly one of the most popular activities was labeling eukaryotic organisms using jelly and sweets (pictured). These sessions were offered to local schools via an email invite.

If you would like to be considered for future sessions please email us with your up to date contact email address at

[kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk)

### Chemistry @ Work

**Tuesday 9th & Wednesday 10th July 2013,  
Canterbury Christ Church University  
CT1 1QU, Free**

Kent & Medway STEM at Canterbury Christ Church University are again hosting Chemistry @ Work after the successful events of 2012 on behalf of Royal Society of Chemistry.

There will be interactive presentations from various local companies as well as STEM ambassadors showing students the part the chemistry plays in their job.

This is a great opportunity to encourage students to consider Chemistry at higher education and as a career. This event is for Year 9 & 10 students. There are 20 spaces for schools to bring 15-20 students each day. If you would like to attend please email [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk) to reserve a space.

### Success at Kent & Medway STEM Teachers FREE CPD Training Sessions

So far this year we have already run five free training sessions for teachers. In January we held a Circular Economy session in collaboration with the Ellen MacArthur Foundation. Engineering in a Box was attended by ambassadors who will all be receiving a box of resources and £50 to help them take the interactive engineering activities into schools.

In February we ran 3 National Science Engineering Week Twilight sessions where we gave out free resources, demonstrated activities, and shared ideas for NSEW March 2013 activities. If you feel like you are missing out on invites to these free CPD training sessions then please email us your up to date contact details to

[kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk)

## COMPETITIONS, CHALLENGES & GRANTS

### Get Set Demonstrate!

from the British Science Association  
Closing Date: Monday 1st April 2013

The British Science Association are seeking videos of high-impact demonstrations from teachers and technicians. Nominate Teachers & Technicians in your school to win prizes.

[www.britishscienceassociation.org/get-set](http://www.britishscienceassociation.org/get-set)

### Energy Bits, Video Challenge

Closing Date: Free Registration Closes on Monday 15th April 2013

Key Stage: 3, 4 & 5

Does your school have some interesting energy projects to show and share? Energy Bits invite students from 9 European countries to shoot a short video. There are three award categories and with winners videos broadcast on several national television stations across Europe. The Award Ceremony will be held in May 2013 hosted by the European Commission in Brussels.

[www.ebitsvideo.com](http://www.ebitsvideo.com)

### What a Waste Poster Competition

Closing Date: Wednesday 17th April 2013

Key Stage: 3

The British Science Association have teamed up with EDF Energy's the Pod to challenge 5-14 year olds to design a product that is made partly, or entirely, of waste materials. Prizes include two Kindle Fire HDs and one overall winner will win a day of outreach from the Science Museum for their school. [www.britishscienceassociation.org/national-science-engineering-week/what-waste](http://www.britishscienceassociation.org/national-science-engineering-week/what-waste)

### Google Science Fair

Closing Date: Tuesday 30th April 2013

Key Stage: 3, 4 & 5

Google's online science competition is open to young people aged 13 to 18 from around the world. The grand prize is a 10 day trip for the winner on the National Geographic Endeavour to the Galápagos Archipelago. Other prizes include Google scholarships, a custom Lego mosaic, Google Goodie bags, and National Geographic subscriptions.

[www.google-sciencefair.com](http://www.google-sciencefair.com)

### The Bloodhound Project

Design Andy Green's Helmet Competition

Closing Date: Friday 10th May

The Bloodhound Project is asking students to use their imagination and creative flair, to design a helmet for Bloodhound SSC driver, Andy Green, to wear on some of his runs both in the UK and South Africa. The winners will be invited to attend one of the Bloodhound SSC test runs and their schools/colleges will receive a visit from the Bloodhound Education Team.

[www.bloodhoundssc.com/helmetdesign](http://www.bloodhoundssc.com/helmetdesign)

### IET Diamond Scholarships

Closing Date: Thursday 27th June 2013

Aimed at students starting university in the autumn of 2013 who achieve 3 'A's at A Level, or 3 'A' grade Advanced Highers or 5 'A' grade Highers and are due to start on an IET accredited BEng/ MEng engineering or technology degree course in September/October 2013 automatically receive £1,000 per year of their study.

[www.theiet.org/diamond](http://www.theiet.org/diamond).

## UPCOMING EVENTS

### RAEng Designed to Inspire

**April 29th – 1st May 2013, RAEng, London, SW1Y 5DG, FREE plus £50 travel bursary.**

Aimed at encouraging A-level students of all backgrounds to transition into engineering careers. These free 2-hour sessions will give students the opportunity to hear from successful UK engineers from a range of backgrounds. [www.raeng.org.uk/events/pdf/Designed\\_to\\_Inspire.pdf](http://www.raeng.org.uk/events/pdf/Designed_to_Inspire.pdf)

### Big Bang Fair South East

**Tuesday 2nd July 2013, The Hawth, Crawley, RH10 6YZ, FREE.**

Open to all young people aged 9-19 and their teachers. Exhibition floors will be filled with over 70 interactive stands that will give students the opportunity to meet professionals from industry and academia, giving them an insight into careers in STEM.

[www.thebigbangfair.co.uk/SouthEast/nearme.cfm](http://www.thebigbangfair.co.uk/SouthEast/nearme.cfm)

### STEM Leaders Awards: Special Awards 2012/13

**Closing dates: May & June 2013**

Sponsored by various organisations with prizes attached. Awards open to Primary (5-11), Secondary (11-16) and Advanced (17-19) levels include:

School science Special Leaders Award

**Closing date 3rd May 2013**

IET Special Leaders Award **Closing date 3rd May 2013**

Bloodhound SSC Special Leaders Awards

**Closing date 28th June 2013**

To find out more please visit:

[www.leadersaward.com/index.php/features](http://www.leadersaward.com/index.php/features)

### IOP School Grants Scheme

**Closing dates: Jun or Nov 2013**

**Key Stage: 3, 4 & 5**

The Science and Technology Facilities Council, the Institution of Engineering and Technology (IET) and the Institute of Physics run a small grants scheme. The aim of the scheme is to provide schools with grants of up to £500 for projects or events linked to the teaching or promotion of physics or engineering.

For projects taking place in the autumn term 2013

**Closing date 1st June 2013**

For projects taking place in the spring term 2014 – **Closing date 1st November 2013**

To apply and for more information please visit: [www.iop.org/about/grants/school/page\\_38824.html](http://www.iop.org/about/grants/school/page_38824.html)

### For Teachers

#### Heads of Science Conference

**Monday 25th March 2013, Kent Science Resource Centre, ME9 8GU, £75**

This event is for Heads of Science in Kent and Medway (or representative) and aims to update subject leaders and science teachers with developments that are affecting the teaching and learning of science. The event offers practical leadership, teaching, and learning strategies to help improve the quality of science provision. For a booking form and full details please see: [www.kentandmedwaystem.org.uk/index.php/news/newspage/158/](http://www.kentandmedwaystem.org.uk/index.php/news/newspage/158/)

#### National STEM Centre: New and Aspiring Leaders of Mathematics in Secondary Schools

**9th to 11th May 2013 and 12th to 13th September 2013 £1,400 - with an ENTHUSE Award of £1,000 on successful completion of the course**

An intensive two part residential professional development course for teachers new or aspiring to lead a mathematics department in secondary schools. If you would like to book onto this course please email [enquiries@nationalstemcentre.org.uk](mailto:enquiries@nationalstemcentre.org.uk) with New and Aspiring Leaders of Mathematics in the subject heading.

#### Teacher & STEM Ambassador Networking Event

The next networking events are due to be held in May 2013 and will introduce teachers to STEM Ambassadors. Set in great locations you will have the opportunity to meet a number of ambassadors representing a wide range of STEM industries and will have a chance to share ideas. If you are interested in attending then please let us know by emailing [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk) and we will keep you up to date.

## Book a meeting with Kent & Medway STEM

### Kent & Medway STEM are a FREE service

We are delighted to say that 88% of Kent & Medway Schools have engaged with STEM Ambassadors over the last 12 months. STEM Ambassadors have visited schools to support STIXX Challenges, STEM Futures Days, Curriculum Enrichment Activities, STEM Leaders Awards & Careers Days. However, there are still 13 schools that are missing out on our FREE support. If you haven't spoken to us for a while contact us at: [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk) to arrange a FREE school visit to discuss your bespoke STEM needs.

## Request STEM Ambassadors

### Borrow STIXX Machines, K'nexions Kits and The Incredible Machine for FREE

We have over 700 Approved STEM Ambassadors across Kent and Medway working in STEM industries that are all willing to visit schools for FREE.

If you would like to know more about requesting STEM Ambassadors please email us at [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk) and we will send you a short form to fill out.

Visit [www.kentandmedwaystem.org.uk](http://www.kentandmedwaystem.org.uk) and follow us on Twitter [@KentMedwaySTEM](https://twitter.com/KentMedwaySTEM)

To keep up to date with competitions and events follow us on Twitter and check out our website where we post all the information regularly. Visit our easy to navigate website where you will find:

- Secondary
- Competitions & Grants
- Free Scheme Providers Resources
- Charged Scheme Providers Resources
- Professional Bodies

## Ambassadors

Why not take a look at the Kent & Medway STEM Ambassadors and Ambassador Career Case Studies pages? Case Studies are interviews with real ambassadors telling you who they are, what they do, and why they are STEM Ambassadors.

## FREE RocketSTEM Magazine



RocketSTEM is a free online magazine for Teachers, Pupils and Parents. The publication blends space history –

past, present and future – with interviews, career paths, astronomy lessons, aerospace and astronomy news, museum features, NASA technology spinoffs, puzzles, games, quizzes, lesson plans and other educational resources, along with easy-to-follow explanations of the mathematics and physics of all things to do with aerospace and space travel. To view the first issue of the magazine please see the website [www.rocketstem.org/issue\\_1\\_january\\_2013/](http://www.rocketstem.org/issue_1_january_2013/)

## British Science Association: National Science & Engineering Week

### It's never too late to get involved

The British Science Association website is full of great teaching resources.. It doesn't matter if you've missed official NSEW (March 15th-24th) as there is always a wealth of ideas and downloads available for you to use and have your own Science & Engineering Lesson, Day or Week when it suits you! You could even request STEM Ambassadors support to enrich the activities.

Start planning today with the help of: [www.britishecienceassociation.org/national-science-engineering-week](http://www.britishecienceassociation.org/national-science-engineering-week)

## Become a Kent & Medway STEM Teacher Case Study

If you are a teacher who has frequently had STEM Ambassadors visit your school, we need you! We are looking for teachers to answer a few questions via email interview telling everybody how the presence of STEM Ambassadors at your school has been enjoyed by your students and fellow teachers. You may have already see our STEM Ambassador & Career Case studies on the website, we are hoping to add some Teacher Case studies to our website to encourage more ambassadors to volunteer and more teachers to request ambassador visits. If you would like to help please email us at [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk)

## Follow us on Twitter

### [@KentMedwaySTEM](https://twitter.com/KentMedwaySTEM)

Tweet us or follow our twitter page where we upload the latest competitions, challenges, grants, resources, photographs and events [www.twitter.com/KentMedwaySTEM](http://www.twitter.com/KentMedwaySTEM)

## CONTACT US

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