



## Chemistry At Work Goes Off With A Bang!

Kent & Medway STEM in collaboration with The Royal Society of Chemistry organised 'Chemistry at Work' on the 12th December at Community College Whitstable. Year 9 students were introduced to their local chemical industry.

They had demonstrations on how the science they are learning at school is used by a variety of people in their work. Eight presenters all representing a wide range of companies made it a very successful event!

*One student said 'I loved the STEM activity day because it was so interactive which made it really interesting. It was a good learning experience teaching us how science applied to our daily lives and how it can be dangerous. We Watched demonstrations and took part in workshops. I enjoyed the day immensely!'*

We are very grateful to everyone who contributed to this day for all their hard work.

To find out more as well as look at the feedback from the students please visit

[www.kentandmedwaystem.org.uk/index.php/events/stem-event-info/290/](http://www.kentandmedwaystem.org.uk/index.php/events/stem-event-info/290/)

**Chemistry at Work**  
**1st - 2nd of July 2014, CCCU,**  
**Canterbury | Cost: Free**

There will be interactive presentations from various local companies as well as STEM ambassadors showing students the part the chemistry plays in their job. If you would like to register your interest email

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

# 'What's My Line Competition' at Discovery Park Sandwich

10th December 2013

This is an activity that allows students to gain insight into the wide range of careers that involve science, technology, engineering and maths.

Ambassadors from a range of STEM professions were asked to bring 'props' or tools of their trade to prompt discussion and help demonstrate their occupation. Students had 5 minutes to question ambassadors about their careers and their current role in an attempt to guess their job title.

At the end of the session the STEM Ambassadors revealed their job role to all of the students and the winning group were given a small prize.

If you would like put an event like this at your school please get in touch at [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk)



## EVENTS FOR STUDENTS

### Special Sixth Form event coming up in March

**Date:** 7th March

**Venue:** The Royal Institution

To explore how Greek mathematicians and philosophers have shaped modern mathematics and the world around us.

The event is free but booking is essential.

Please see [www.rigb.org/whats-on/events-2014/march/greek-legacy-2014](http://www.rigb.org/whats-on/events-2014/march/greek-legacy-2014)

### Health and Science Master Classes for years 12 & 13

**Date:** October 2013- May 2014, **Cost:** FREE

**Venue:** Canterbury Christ Church University, Medway Campus

2-hour Health and Science Master Classes, for more information: [www.kentandmedwaystem.org.uk/index.php/news/newspage/253/](http://www.kentandmedwaystem.org.uk/index.php/news/newspage/253/)

### Space Careers Event – Year 10 & 12 students

**Dates:** Monday 16th & 30th June 2014 – Year 10 | **Venue:** National Space Centre, Leicester, **Cost:** Free

For Information: [www.nationalspaceacademy.org/about/industry-links](http://www.nationalspaceacademy.org/about/industry-links)

### Free National Grid Engineering Experience

**Date:** 24th – 28th March 2014  
7th – 11th July 2014

Venue: National Grid Training Centre, Newark  
Sponsored and hosted by National Grid, this opportunity boosts knowledge of engineering and the future of energy and is ideally suited for students studying STEM subjects at A level and beyond seeking to gain real-life work experience in this dynamic sector.

To apply and for more information:

[www.smallpeicetrust.org.uk/index.php?option=com\\_content&task=view&id=544](http://www.smallpeicetrust.org.uk/index.php?option=com_content&task=view&id=544)

### East Kent College STEM Fest for Kent and FE Colleges

**Date:** 19th March

**Free Engineering Challenge for Year 7 & 8 students:** 10:00 to 2:00pm

**Free Electrical Circuitry Challenge for FE College Students:** 12:00 to 4:00pm

This is the first ever STEM festival held at East Kent College. With an opportunity to test your skills by entering the competition and first prize winning £500, teams of 5-6 wanted, and with only ten spaces available it is first come first served- you would not want to miss this. For booking and more information: [www.kentandmedwaystem.org.uk/index.php/events/calendar-events](http://www.kentandmedwaystem.org.uk/index.php/events/calendar-events)



## EVENTS FOR TEACHERS

### Teacher Network event: Make a vacuum cleaner!

**Date:** Tuesday, 25 February 2014, 4:00 to 6:00  
**Venue:** Skinners' School, St John's Road, Tunbridge Wells, TN4 9PG

We will be discussing how to get involved in IET Projects include making radios, motors, voice changers, speakers, using conductive paint, Making a working mini vacuum cleaners. No skills in electronics are needed. To register interest in this FREE training event email [kentandmedwaystem@canterbury.ac.uk](mailto:kentandmedwaystem@canterbury.ac.uk)

### Big Bang Fair 2014

**Date:** Thursday, 13th March-Sunday, 16th March 2014 - Times TBC  
**Venue:** The NEC, Birmingham, West Midlands B40 1NT  
**Cost:** FREE

The UK's largest celebration of science, technology, engineering and maths for young people returns to The NEC, Birmingham, in March 2014. Free tickets are available via [www.thebigbangfair.co.uk](http://www.thebigbangfair.co.uk) from October 2013

## RESOURCES

### BP Free Science Resources

All the online resources are free to use for UK teachers, linked to the curriculum, and highly interactive. There are over 280 videos, animations, online experiments and worksheets available to view.

The BP Educational Service provides free videos, online experiments and activities to help teach Science subjects at Key Stage 3 and Key Stage 4; teachers' notes and worksheets are included. To find out more please visit <http://bpes.bp.com/>

### Free Teaching Resources from Resources4Schools

Resources4schools is a free teaching resource portal full of free teaching plans, presentations, games, apps, posters, revision guides and much, much more so why not come and check us out?

Thousands of free resources are across the entire curriculum and for all age ranges. To find out more please visit [www.resources4schools.co.uk](http://www.resources4schools.co.uk)

### New Maths Resources!

To help encourage more girls to study and enjoy maths, STEMNET sought out six diverse and inspirational female STEM Ambassadors to talk about the importance that maths plays in their role on an 'every day' basis.

To access the resources, visit [www.stemnet.org.uk/real-life-maths](http://www.stemnet.org.uk/real-life-maths).

### Jobs in Technology & Engineering

Information for students considering careers in Technology & Engineering including a search engine and more information about different types of engineering career pathways. To find out more please visit: <http://engineering-jobs.theiet.org>

### Tomorrow's Engineers

As you may already know Tomorrow's Engineers produce a range of materials which can be downloaded and requested by teachers via the website:

[www.tomorrowsengineers.org.uk/Careers\\_resources/Individual\\_resources/](http://www.tomorrowsengineers.org.uk/Careers_resources/Individual_resources/)



## COMPETITIONS AND GRANTS

### **The Bill Bryson Prize 2014 (5-18 years old)**

**Date:** Entries may be submitted online from January 2014 until Monday 31st March 2014.

**Cost:** Free

"Where is the art in science? Where is the science in art?". For more information and rules:

[www.rsc.org/Education/events-and-competitions/bill-bryson-prize/index.asp](http://www.rsc.org/Education/events-and-competitions/bill-bryson-prize/index.asp)

### **Beat the Flood Challenge (ages 7-14)**

**Date entries in by** 30th April 2014

**Cost:** Free

You have to design and make a model of a home able to withstand the effects of flooding... For more information:

[www.practicalaction.org/beattheflood](http://www.practicalaction.org/beattheflood)

### **Global Transport Challenge for 11-14 year olds**

**Date:** Entries to be in by midday on Monday 2nd June 2014

**Cost:** Free

Your challenge is to come up with a future luxury global transport concept and create an advertising campaign for it. You can enter on your own or in a group of four, you can email your entry (up to 4mb) to: [faradayengineer@gmail.com](mailto:faradayengineer@gmail.com) for more information and rules:

<http://faraday.theiet.org/stem-activity-days/competition/index.cfm>

### **20th March is the first national Demo Day**

The British Science Association are seeking passionate teachers and technicians to pledge to give any demo to their students. Those who pledge will receive discounts on equipment from Timstar. Need some ideas for what demonstration to do?

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

#### **CONTACT US**

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## EVENTS TO WATCH OUT FOR THIS TERM!

March is one of the busiest months of the year for STEM Ambassadors. If you are planning to get involved in any of the following events, Kent & Medway STEM Ambassadors are available to visit your school FREE OF CHARGE to give career talks, STEM subject talks and support mock interviews, STEM clubs, lessons, challenges and many more.

**To book one or for more information please contact**

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

### **National Science and Engineering Week**

will run from 14th - 23rd March 2014.

This national event involves a vast array of activities and initiatives in schools and communities up and down the country.

### **NHS Healthcare Science Week 2014**

will run alongside National Science and Engineering Week and focuses specifically on careers within healthcare that pupils may not be aware of.

### **Smallpeice Trust Girls Engineering the Future**

The Smallpeice Trust has launched Girls Engineering the Future, working with year 10 girls to broaden their career ambitions in engineering.

For more information:

[www.girlsengineeringthefuture.org.uk](http://www.girlsengineeringthefuture.org.uk)

### **STEM clubs**

STEM clubs give you the opportunity to do something different from your normal classroom activities.

If you are looking for guidance on setting up a club or developing an established one please email: [STEMclubs@brighton.ac.uk](mailto:STEMclubs@brighton.ac.uk)