



On the Right Wavelength at 'Build a Radio' Twilight Session



Over 30 STEM Ambassadors and Teachers attended a 'Build a Radio Twilight Workshop' organised by Kent & Medway STEM (KM STEM) in collaboration with IET in the "Bringing STEM Alive" Project.

All attendees were provided with instructions on how to build a radio along with some chocolate currency to spend should they need help. Just over an hour in to the session the first signal was picked up by teachers from Harvey Grammar School.

As the session went on there was frustration and determination from the other teams, radios were shared around teams and tinkered with until the coffee and cake ran out. The radio kits, instructions and twilight session have been created with the help of STEM Ambassador Philip Moffitt.

The aim now is for the teachers to set up STEM Clubs at their schools with the build a radio project of which Philip and the other STEM Ambassadors who attended the event will support with the kits provided by KM STEM's funding from The IET.

New CREST Discovery Award Launched

The CREST Discovery Award is designed to appeal particularly to teachers new to running STEM related project work; it will act as a pre-Bronze Award to build teachers' confidence in facilitating CREST Awards. To find out more please visit

www.kentandmedwaystem.org.uk/index.php/news/newspage/255

STEM Challenge Days with a Careers Focus

Kent & Medway STEM Ambassador Philip Lennard introduced STEM to 3 different schools this autumn. STEM ambassadors explained their roles and careers in STEM to students in short interviews. In groups the pupils were tasked with imagining STEM jobs which do not exist yet - the results were both scientifically accurate as well as outrageous. One activity required a certain element of patience - lying on as few balloons as possible without bursting them. Next each team were challenged to stand on a mat and halve the size of it without anyone stepping off. And then they had to make the mat half the size again! The students enjoyed the days and many remarked that they were more aware of STEM careers and where studying STEM in further education may be able to take them.



EVENTS FOR STUDENTS

What's my Line? Chemnet A-Level Chemistry Event

Date: Wednesday 23 October 2013, 4-6pm

Venue: Discovery Park, Ramsgate Road, Sandwich, CT13 9ND

Cost: FREE

4 to 5 students from KS5 from each school may attend to give them an insight into a variety of chemistry careers which have STEM at their heart. Students will question 10 STEM Ambassadors about their careers and their current role for 10 minutes in an attempt to guess their job title. The ambassadors will bring "props" with them which will be displayed on the table to prompt discussion. Students complete a guess sheet, writing down what they think the Ambassador's job title is. At the end of the session the STEM Ambassadors will reveal their job to all of the students and the winning group will be given a small prize. Limited spaces left. To book please email kentandmedwaystem@canterbury.ac.uk

RSC Chemistry Week

Date: Saturday 16- Saturday 23 November 2013 | **Venue:** Various

Cost: Grants Available

The RSC Chemistry Week is a themed week of events that is held every two years to promote a positive image of chemistry and increase the public understanding of the importance of chemical science in our everyday lives. As well as national events, activities are organised throughout the UK by the RSC Local Sections. To find out more please visit

www.rsc.org/conferencesandevents/rscevents/chemistry-week

Health and Science Master Classes for years 12 & 13

Date: October 2013- May 2014

Venue: Canterbury Christ Church University, North Holmes Road, Canterbury, CT1 1QU

Cost: £15 per student, 50% subsidised for a limited period of time.

The Faculty of Health and Social Care at Canterbury Christ Church University is running a series of 2-hour "Health and Science Master Classes".

The master classes are designed to:

- Help students put their theoretical knowledge into practice
- Complement post-GCSE curricula

Introduce students to a university experience

Offering students the opportunity to participate in health and science master classes where they can gain hands-on experience in a university setting. To find out more please visit www.kentandmedwaystem.org.uk/index.php/news/newspage/253

Chemnet: Exploring Electricity at Dungeness B Power Station

Date: Tuesday 26 November 2013, 10am-3pm

Venue: EDF Energy, Dungeness B Power Station, Romney Marsh, TN29 9PX

Cost: Free

An opportunity to visit Dungeness B power station where you can get your hands on their interactive exhibition, embark on a site tour to see their plant in operation, and see what chemistry has to do with the production of electricity. This event is suitable for students aged 16-18. To find out more please visit

www.rsc.org/ConferencesAndEvents/conference/alldetails.cfm?evid=114394



EVENTS FOR TEACHERS

STEM Teacher Ambassador Network Events

Date: Wednesday 16 October 2013 4.15-5.45pm
Venue: Hornby Visitor Centre, Margate, CT9 4JX
Cost: FREE

Date: Thursday 17 October 2013, 4.15-5.45pm
Venue: Bredgar & Wormshill Light Railway, Sittingbourne, ME9 8AT
Cost: FREE

A chance for STEM Ambassadors and teachers from Kent and Medway schools to meet. This event provides an opportunity to discuss STEM opportunities, exchange ideas and make contacts for future enrichment activities. Coffee, tea and cake will be provided. Hornby Visitor Centre and Bredgar & Wormshill Light Railway will provide a free tour and discuss how the venues support STEM activities.

To find out more and book your free place please visit www.kentandmedwaystem.org.uk/index.php/events/calendar-events

BLOODHOUND SSC Teacher Ambassador Network CPD Twilight

Date: Tuesday 29 October 2013, 4-6pm
Venue: Rowan Williams Court, Medway, ME4 4UF
Cost: FREE

This FREE to attend network meeting is for teachers to meet with Kent & Medway BLOODHOUND SSC STEM Ambassadors and learn more about the project. STEM Ambassadors support schools by:

- Contributing to a school lesson or STEM club related to BLOODHOUND SSC
- Supporting a national STEM Activity
- Presenting during a school assembly
- Supporting school visits to BLOODHOUND SSC events

To find out more and book your free place please visit: <https://bloodhoundmedway.eventbrite.co.uk>

STEM Resources.co.uk

STEM Resources is a place you can find free STEM activities, projects and other information relating to STEM. STEM Resources is run by KM STEM Ambassador Jonathan Reed. To find out more please visit www.stemresources.co.uk

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>

RESOURCES

RSC Global Experiment Chemistry Week 2013

The Global Experiment is an engaging way to take part in chemistry week. Get students to test fruit and vegetables for vitamin C using simple kitchen equipment and household items. Upload your data and analyse the results online straight away. Instructions and participation certificates available online. To find out more please visit www.rsc.org/learn-chemistry/resource/res00001280/global-experiment-instructions-2013

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 www.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

COMPETITIONS AND GRANTS

RSC Chemistry Photography Competition

Closing Date: Friday 11 October 2013

Photographic entries must show and explain: 'What chemistry means to me' - Pictures can be taken at school or in the community in which you live or the countryside and need to show what is good about chemistry, its use in society, why it is interesting, useful and exciting. Prizes (to be shared equally between the student entering and their school): 1st -£300, 2nd- £150, 3rd - £50. To find out more please visit: www.rsc.org/Membership/Networking/iyc-challenge/SERED.asp

Hot Water - Make a 50 Second Film About Water Conservation

Closing Date: Wednesday 30 October 2013

2013 is the United Nations International Year of Water Cooperation and time to make everybody aware of water and why it's so critical to everyday life. Cool it Schools are inviting young people and students between the age of 4 and 25 to make a 'bite-size' film no more than 50 seconds long. The winning films will be screened and prizes given at the Hot Water Awards taking place at the British Film Institute on London's famous South Bank on November 26th 2013.

www.coolitschools.com/competition/hot-water

Up to £500 IOP Physics & Engineering School Grants Scheme

Closing Dates: 1 November 2013, 1 February 2014 and 1 June 2014

The Science and Technology Facilities Council, the Institution of Engineering and Technology and the Institute of Physics (IOP) run a small grants scheme designed specifically for schools and colleges. 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. To find out more please visit: www.iop.org/about/grants/school/page_38824.html

CONTACT US

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Up to £200 National Science & Engineering Week Kick Start Grant

Closing Date: Friday 8 November 2013

The British Science Association has teamed up with the Department for Business, Innovation and Skills to offer a £200 grant to 500 eligible schools in the UK. Along with access to loads of free resources, activity ideas and 'how-to' guides, you'll have all the tools you need to celebrate NSEW in your school. Schools can use the grant to fund a wide range of activity, including

- Booking a science presenter
- Organising a memorable science fair
- Purchasing resources for cross-curricular activities
- Taking a class on a trip
- And much more

To find out more please visit:

<http://tinyurl.com/pnzokoz>

PA's Raspberry PI Competition- Innovate to Help the Environment

Closing date: Friday 31 January 2014

Raspberry Pi Competition challenges schoolchildren and university students from across the UK to put their technology skills, ingenuity, and creativity to the test. Their mission? To use the Raspberry Pi, a low-cost credit card-size computer - to make the world a better place. The winners of each of the four categories will receive £1000. To find out more please visit:

www.paconsulting.com/events/pas-new-raspberry-pi-competition-for-2013-14

National Engineering Competition for Girls sponsored by Rolls-Royce and EADS

Closing Date: Saturday 21 December 2013

This is a great opportunity for girls to be inspired by engineering and win some fantastic prizes! The competition, supported by Rolls-Royce and EADS, is open to girls aged 11-14 and 15-18 from across the UK to submit their ideas for 'How can engineers solve the challenges of the 21st century?' There is £2000 worth of prizes, which will be awarded at the Big Bang Fair in March 2014 and all entrants have the opportunity to get a CREST award. The deadline for submissions is 21st December 2013. To find out more please visit

www.talent2030.org/girlsengineering