



SCHOOLS

UPDATE

**SPRING
2016**



The Big Bang @ Discovery Park

Around 1000 students enjoyed The Big Bang @ Discovery Park which took place on Friday, March 18 at Discovery Park, with the aim of inspiring students to take up STEM subjects.

The format of the day ensured every student had a range of 'hands-on' experiences including interactive exhibits and workshops, talks run by STEM Ambassadors from local companies and organisations. Read more by visiting:

www.kentandmedwaystem.org.uk/index.php/events/report/755



Maths and Science Come Alive!

22 STEM Ambassadors visited more than 20 secondary schools in Kent and Medway region. They organised a carousel of enrichment and enhancement activities in STEM subjects.

They engaged with half/ whole year group of Year 7 and 8 students in 2 hours of activities.

To read more please visit:
www.kentandmedwaystem.org.uk/index.php/events/report/750



**NATIONAL WOMEN
In ENGINEERING DAY**

23 June

National Women in Engineering Day Thursday 23 June 2016

The Women's Engineering Society (WES) is calling on schools to organise events to celebrate National Women in Engineering Day. There is **FREE resource pack for teachers to help them organise an event.**

Anyone can get involved and help encourage girls and women into engineering careers: whether you host an engineering-based event for young people, recruit a female engineer to speak at a local school, or simply tweet about NWED, we can all unite to break down gender barriers and increase diversity and equality in the engineering sector.

Kent & Medway STEM encourages schools to request female STEM Ambassadors to support activities on this date. For more information, visit www.nwed.org.uk and request a resource pack.

What are you doing for National Women in Engineering Day?

Kent & Medway STEM and Greenwich University, Engineering Department is organising the following event to raise the profile of science and engineering and celebrate the achievements of women in engineering:

**NWED Support twilight Session
Wednesday, 11 May 2016
Greenwich University, Medway
Campus
4:00pm to 6:00pm
Cost: FREE**

For more information please visit:
www.kentandmedwaystem.org.uk/index.php/news/news-article/758/

To book your place please email kentandmedwaystem@canterbury.ac.uk



Chemistry at Work

Thursday 23 or Friday 24 June, 2016, FREE

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

Following the success of previous years Kent & Medway STEM is once again organising a Chemistry at Work event 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 chemistry plays in their job. This is a great opportunity to encourage students to consider Chemistry at higher education and/or as a career. This event is suitable for Year 9/10 students. To read about last year's event please visit: www.kentandmedwaystem.org.uk/index.php/events/report/637/

Register interest for groups of 15 students email:

kentandmedwaystem@canterbury.ac.uk There is limited availability and we will be offering this to the first schools who apply.

To book your place: chemistryatwork2016.eventbrite.co.uk

I'm a Scientist, I'm an Engineer and I'm an Astronaut Get me out of here

Date: 13 – 24 June 2016

Online Competition

Cost: FREE



ARE YOU INVOLVED? IF NOT REGISTER NOW!

Teacher registration deadline: 25th April

For more information please visit :

www.kentandmedwaystem.org.uk/index.php/news/news-article/757



A Conference for A-Level Students

Event: Future Opportunities in Ecology and Environmental Management

Date: Wednesday 13 July 2016 - 10.00am - 2.30pm

Venue: University of Greenwich, 10 Stockwell Street, London SE10 9BD

Cost: FREE

This event is aimed at Year 12 students who are about to make their UCAS selections.

For more information:

www.kentandmedwaystem.org.uk/index.php/events/more-information/749/

Book your place: www.ecology-and-environmental-conference.eventbrite.co.uk

EVENTS FOR TEACHERS

BBC Micro:bit Support Twilight Session

Monday 23 May 2016 - 4.30pm - 6.00pm

Canterbury Christ Church University, Hall Place Enterprise Centre

Cost: FREE

STEM Ambassadors and Teachers are invited to attend a FREE Networking Session focused on the use of micro:bit. This session will cover:

- An opportunity for hands-on experience using the BBC micro:bit
- Explore subject-specific resources to support the micro:bit in the classroom, in science or design & technology
- Learn about the BBC Make it Digital initiative and the wide range of resources and projects available for the BBC micro:bit
- Understand how to manage the BBC micro:bit in the classroom

By the end of the session you will be able to:

- Make your micro bit control images by physical action

Monday 23 May 2016 | 4.30pm - 6.00pm

Canterbury Christ Church University, Hall Place Enterprise Centre

Wednesday 13 July 2016 | 4.30pm -

6.00pm

Canterbury Christ Church University,
Medway Campus

Tea, coffee & cake provided. Please bring your own laptop

Email:

kentandmedwaystem@canterbury.ac.uk
for more information



COMPETITIONS & GRANTS

Full details of how to access of the competitions and grants below and more can be found at the Kent & Medway STEM Website:

www.kentandmedwaystem.org.uk/index.php/resources/secondary-competitions-and-grants

BBC micro:bit Model Rocket Car Competition

Bloodhound has just announced an exciting competition using the BBC Micro: Bit sponsored by Microsoft. The competition is open to aged 11-16 secondary school students.

To get your school ready to take part pre-register with your local race HUB through www.microbitmodelrocketcar.com to receive allocation of free rocket car kits for your participating teams.

Tomorrow's Engineers EEP Robotics Challenge 2016/2017

Applications close: Monday 4 July 2016

Applications are now open for secondary schools to apply to take on a robotics challenge that will involve KS3 student teams in 'space missions'. Teamwork, robots, design, research, fun and loads of LEGO® are all part of the mix, as are real-world challenges, teacher support and some great prizes. Schools apply with a written application of no more than 500 words on why they should be selected (closing date 4 July 2016). Selected schools get LEGO® MINDSTORMS® Education EV3 resources, regional teacher training, online support and tutorials as well as input from STEM Ambassadors and volunteers. Schools can register an interest at robotics.tomorrowsengineers.org.uk/What-is-the-challenge/

The proposed time table is:

- Teacher training days (one full day for one or two teachers): Beginning of 2016/2017 academic year
- Regional heats: February and March 2017
- National final: March 2017 at The Big Bang UK Young Scientists & Engineers Fair

New Intermediate Biology Olympiad

The Royal Society of Biology has just launched a new Intermediate Biology Olympiad, now open for teachers to register their students. The competition is open to Y12 students in England and Wales, The online paper will consist of multiple choice questions, which will be set on topics students are likely to have covered at GCSE and in their first year of A level. The Intermediate Biology Olympiad will take place on **Wednesday 22nd June**. One hour will be allowed for students to complete the paper.

The Bright Idea Challenge

Deadline for Entries: April 29, 2016.

Shell is inviting students to participate in two national initiatives. The Bight Ideas Challenge and Make the Future London, a four day festival of ideas and innovation. There are resources for teachers to download and run the challenge and opportunities to win up to £5000 for your school. For more information please visit our website -

www.stemnet.org.uk/the-bright-ideas-challenge

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:

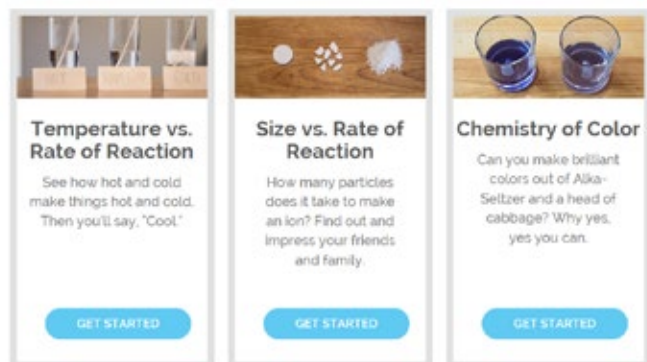
kentandmedwaystem@canterbury.ac.uk

The STEM Club Network: is an affiliation network. It is completely free to join for all secondary schools in the UK and will grant you full access to the STEM Clubs Network website and the support that they offer.

Take a look at the STEM Clubs Activity Sheet for quick start ideas.

Looking for something to do in your stem club, well look no further! The alkasetzer site has some brilliant activities to do. There are easy ones and some that are more challenging. Let us know how you get on!

www.alkasetzer.com/science-experiments



IOP School Grants Scheme

Closing date: Wednesday 1st June or Friday 1st November 2016

Grant: Up to £600

For more information: www.iop.org/about/grants/school/page_38824.html

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

The Ernest Cook Trust Grants Programme

Closing Date: Thursday 31st July 2016

Grant: Up to £4,000

The Ernest Cook Trust offers land-based learning for young people. The trusts run a small grants programme for state schools wishing to encourage young people interest in the countryside or the environment, the arts or in science.

They welcome applications where schools would like to undertake a project which meet the Ernest Cook Trust objectives and require a small amount of funding for the project to take place. For more information:

ernestcooktrust.org.uk/grants/how-to-apply

Scientific Outreach Grants

The Society is looking to support scientific outreach activities that communicate the excitement of molecular bioscience to young people and the community.

Applications for sums up to £1000 are available to assist with the direct costs associated with an event and expenses incurred (e.g. transport and/or teacher cover).

There are two rounds of applications per year, in September and April.

To see full terms and conditions of the grant and for application details visit

www.biochemistry.org/Grants.aspx

Institute of Mathematics Education Grant Scheme

Individuals in secondary schools and Colleges of Further Education in the UK can apply for a grant to help with the costs of running or attending an educational activity relating to mathematics.

Grants will be made up to a value of £600.

To find out more about the grant, terms and conditions and how to apply visit

www.ima.org.uk/about_us/support_and_grants/education_grant_scheme.cfm

Teacher CPD Grant

The scheme provides opportunities for mathematics teachers to attend training relating to specifically mathematical.

Grants will be made up to a value of £400.

There are four rounds of applications per year, in August, November, January and April.

To find out more about the grant, full terms and conditions and for application details visit

www.lms.ac.uk/grants/teacher-cpd-grants



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