



East Kent College's First Ever STEM Festival

Wednesday 19th March 2014

This event was aimed specifically at Year 7 and 8's in secondary schools as well as Further Education student and gave all concerned the opportunity to take part in a challenge which tested their skills to the limit.

East Kent College new engineering building was a great space to hold this event. Prizes were given to 6 teams with Sandwich Technology School and Mid Kent College being awarded £500 as 1st prize in their category!

For more information on the day and other winning teams please visit:

www.kentandmedwaystem.org.uk/index.php/events/stem-event-info/320/

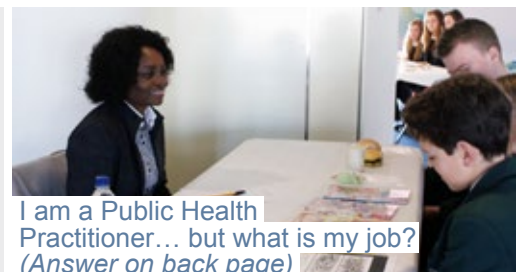
Have you thought of using STEM Ambassadors to help your students with career options?

Kent & Medway STEM are developing a range of ambassador usage models which give a range of activities that can be undertaken by ambassadors in school. With 700+ ambassadors there will be one suited to most STEM subjects and careers.

Model 1: Guess My Job? 45 – 60 minutes

This session typically covers:

- Guess my Job? How many questions till the job role is identified
- A day in my life as '...' Presentation
- Routes into my Profession



To find out more about this and other models please email kentandmedwaystem@canterbury.ac.uk

EVENTS FOR STUDENTS

Medical Physics and Radiography Lecture, Free

Wednesday 25th June 2014, 2:00 to 3:30pm
Canterbury Christ Church University,
Canterbury, CT1 1QU
Email:

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

This event is aimed at A-level students to give them an insight in to careers in medical physics. The key speaker will be Dr. Aruna Jago-Brown, Senior Lecturer, Canterbury Christ Church University, whose specialist field is Nuclear Medicine and Medical Physics. Dr Jago-Brown's areas of interest and research are Radio pharmacy and therapy using I-131 for Thyroid ablations. At this session there will also be STEM Ambassadors giving 'A Day in the Life of ...' Presentations about their job roles within medical physics.

Chemistry at Work, Free

Tuesday 2nd July 2013, 9:30am to 3:00pm
Canterbury Christ Church University,
Canterbury, CT1 1QU
Email

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

Kent & Medway STEM at Canterbury Christ Church University are again hosting Chemistry at Work, after the very successful events held in 2013, 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/or as a career. Suitable for Year 9 & 10 students.

Futures Day 2014, Free

Friday 18th July 2014, 9.30am-5.30pm
Show Centre, ETPS Road, Farnborough,
Hampshire, GU14 6FD

[**www.farnborough.com/Content/FUTURES-DAY-18-JULY-2014/11_84/**](http://www.farnborough.com/Content/FUTURES-DAY-18-JULY-2014/11_84/)

Futures Day at Farnborough International Airshow 2014 has been designed to give groups of young people aged 11 – 21 a chance to see the exciting career opportunities available in the dynamic sectors of Aerospace and Defence. Groups from schools, universities and youth associations can experience the exciting prospects available and motivate them in their study of STEM subjects.

University of Birmingham Higher Education Insight Residential, Free

Wednesday 27 to Friday 29 August 2014, Free
Closing Date: Monday 16 June 2014

[**www.birmingham.ac.uk/undergraduate/advice/west-midlands-schools/summerschools/higher-education-insight.aspx**](http://www.birmingham.ac.uk/undergraduate/advice/west-midlands-schools/summerschools/higher-education-insight.aspx)

Higher Education Insight is a new residential for Year 12 students from England and Wales. It will provide them with the opportunity to live and learn at the University of Birmingham; one of the country's leading universities.

Celebrate World Space Week 2014

Saturday 4th to Friday 10th October 2014

[**www.kentandmedwaystem.org.uk/index.php/news/newspage/328/**](http://www.kentandmedwaystem.org.uk/index.php/news/newspage/328/)

Imagine an entire week of Space-themed activities to enhance learning. Join educators and space enthusiasts around the world to celebrate World Space Week- the largest public space event in the world, with over 1400 events in more than 80 countries.

EVENTS FOR TEACHERS

Polymer Study Tours 2014, Free

Sunday 29th June to Wednesday 2nd July 2014 - London Metropolitan University,
Holloway Road N7

[**www.iom3.org/content/pst**](http://www.iom3.org/content/pst)

Four day residential courses for secondary teachers of science and design technology designed to improve their knowledge and understanding of the aspects of the curriculum related to polymers.

This event brings together teachers from both disciplines in an informal environment to exchange views on the teaching of this cross curricular subject. All accommodation, meals, refreshments and transport between venues is included.

COMPETITIONS AND GRANTS

Global Transport Challenge for 11-14 year olds

Closing Date: Monday 2nd June 2014

Prize: £200 for school, Amazon vouchers for students

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

This challenge is to come up with a future luxury global transport concept and create an advertising campaign for it. Students can enter on their own or in a group of four; entry can be emailed directly to: faradayengineer@gmail.com

The Rolls-Royce Science Prize

Closing Date: Monday 26th May 2014

Prize: £120,000 worth of prizes

www.kentandmedwaystem.org.uk/index.php/news/newspage/326/

The Prize recognises and rewards excellence in Science teaching across the full spectrum of teaching, from special education needs to high ability pupils. It also promotes innovative and sustainable strategies for teaching science which addresses a specific need in the schools or colleges and at the same time contributes to teachers' continuing professional development.

The Great British Space Dinner: Design a Meal Fit For an Astronaut

Closing date: Monday 30th June 2014

www.gov.uk/government/news/the-great-british-space-dinner

The UK Space Agency, in collaboration with the British Nutrition Foundation and the European Space Agency, have launched an exciting challenge for pupils. Students are asked to create a meal for British ESA astronaut Tim Peake's visit to the International Space Station. The meal will need to be healthy and tasty, be easy for Tim to eat in space and showcase food from the UK.

BioArtAttack

Closing date: Friday 22nd August 2014

Prize: Stop motion kit & BioNet membership

www.societyofbiology.org/get-involved/biologyweek/bioartattack

This is a chance to get young people thinking about the biology that is in the world all around them, as well as exploring the possibility of communicating a scientific message through an artistic output. The Society of Biology are inviting individuals or groups of young people to make a biology-themed art collage, model or sculpture and submit their project to the competition by taking time-lapsed videos, or a series of photographs to illustrate the process of the artwork being created.

The Big Bumble Bee Discovery

Closing date: Ongoing summer project

Prize: School visit from Dallas Campbell

<http://jointhepod.org/experiment-zone>

Join the pod is working with The British Science Association and The Centre of Ecology & Hydrology to run The Big Bumblebee Discovery which will gather data through July and August. They want to test the hypothesis that the diversity of bumblebees is affected by their immediate surroundings and the wider landscape. Students are needed to get involved as citizen scientists. They have lots of curriculum-linked teaching resources to make running the experiment easy.

IOP School Grants Scheme

Closing date: Sunday 1st June or Saturday 1st November 2014

Grant: Up to £500

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 of the scheme 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 2014

Grant: Up to £4,000

<http://ernestcooktrust.org.uk/grants/>

For schools wishing to encourage young people's interest in the countryside and the environment, the arts or aiming to raise levels of literacy and numeracy can apply for funding to the Ernest Cook Trust (ECT).

Microbiology in Schools Fund

Closing Date: 2 months prior to event

Grant: Up to £1,000

www.sgm.ac.uk/en/grants-prizes/education-outreach-funds.cfm/microbiology-in-schools-fund

Grants can be used to support a range of microbiology-related projects. These might include, but are not limited to: organising a visit to or from a working microbiologist, running a school science week activity, supporting microbiology activities in an out-of-school science club, buying materials and equipment to support a microbiology activity or a class visit to a microbiology laboratory.

National Women in Engineering Day

Monday 23rd June 2014

Info: www.nwed.org.uk

Resource: www.wes.org.uk/resources

The Women's Engineering Society (WES) is calling on schools to organise events to celebrate, and have produced a resource pack for teachers to help them do so.

Apps For Good

www.appsforgood.org/public/teach-apps-for-good

Apps for Good aims to build the next generation of problem solvers and digital makers. Their free course for 10-18 year olds "ticks the box" of the new computing curriculum but does much more - it equips students to research, design and make digital products and take them to market.

Discover Materials with IOM3

www.iom3.org/sas

The Institute of Materials, Minerals and Mining (IOM3) Schools Affiliate Scheme (SAS) aims to provide support and resources which enrich the teaching of the materials topics in the 11 to 19 curriculum, provide teachers with the knowledge and understanding necessary to teach these areas with confidence and enthusiasm and provide links to members, organisations and universities that can provide additional support.

Success at School - Exploring Careers

www.successatschool.org

A new website, Success at School, has been launched for exploring careers. The aim is to inform teachers who can then inform students, rather than being directly student-facing.

Careers Information - Institute of Acoustics

www.ioa.org.uk

The Institute of Acoustics have launched a new website which for the first time has a careers section aimed at young people looking to make university/careers choices.

Future Morph – Updated

www.futuremorph.org

There are additional fantastic facts, a 'What might you be?' game for students and lots of great STEM careers resources to order and download.

Get your students interested in Chemical Engineering

www.whynotchemeng.com

Providing free teaching resources for secondary schools such as their Top Ten Flash Bang Demos and The Process of Sugar Making. Free careers literature including posters, leaflets and careers packs, plus a network of chemical engineers across the UK and Ireland who visit schools to attend careers events or give presentations can be accessed on the site.

Crest Awards

www.kentandmedwaystem.org.uk/index.php/secondary/info-page/52/

CREST is a project-based awards scheme for the STEM subjects. It links the personal passions of students to curriculum-based learning. UCAS endorse CREST Awards for inclusion in students' personal statements – they're well regarded, high-quality and a tangible recognition of success.

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

CONTACT US

STEM Administrator

Faculty of Education

Canterbury Christ Church University

North Holmes Road

Canterbury | Kent | CT1 1QU

Tel: **01227 782662** | Email: kentandmedwaystem@canterbury.ac.uk

Ambassadors: ambassadors@canterbury.ac.uk

Answer from front:

Health Visiting Implementation Plan Team

Development Lead