

Welcome to the December newsletter for STEM Ambassadors. We are almost at the end of Term 2 and it is going scarily fast! In November we had the launch of Go4SET so welcome to all the new companies who have joined the Ambassador programme to help with this. There has also been lots of other events where Ambassadors have helped eg Chemistry Days at the Glasgow Science Centre, F1 in Schools, Determined to Engineer project, Skills Scotland careers event etc so a big thank you to everyone who has helped out. Schools are gearing up for all sorts of Christmas concerts etc but we still have a couple of Ambassador requests for this month so please have a look at the list overleaf and see where you can help. There is also an event in early January so we need to know before Christmas if you can help us to let the organisers know numbers.

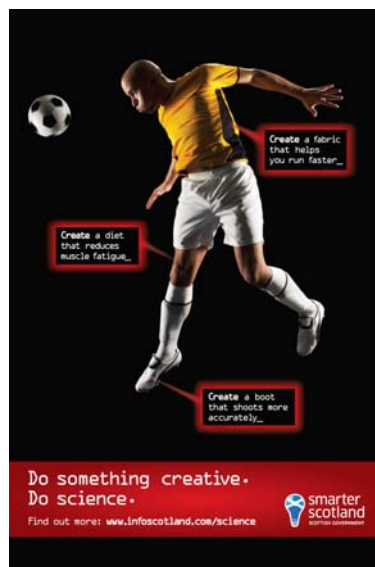
Thank you for all your support in 2009 and I wish you all a Merry Christmas and a Happy and healthy 2010 when it comes. Hope you all enjoy a good festive break and manage to get some time off your work and studies!



Do Something Creative. Do Science.

The Scottish Government is again undertaking significant marketing activity from this month to promote science to S1-S4s primarily, extending the campaign, "Do Something Creative. Do Science" that ran earlier this year. The last round of the campaign was more careers-based, targeting S5-S6s. This time round, while messages about science careers are still valid, the Scottish Government would like to have more of a focus on showing the relevance of early secondary science, where it can lead but also why it is relevant even if you don't want to study science beyond school. Showing the inherently creative and fun nature of science is also an element of the campaign.

Science Connects will be co-ordinator 4 careers events in Ayrshire and Lanarkshire schools (see over for details) but we will also be taking delivery of a lot of marketing materials for this campaign such as A3 posters, A5 postcards with campaign artwork on one side and periodic table/human organs/electromagnetic spectrum on the other side, Lapel stickers, Pens, Keying torches etc. If you are going into a school and would like some of these materials to take with you, please contact Alan in our office at a.kerr@physics.gla.ac.uk.



REQUESTS for HELP

The following requests have been made by schools and organisations. **If you can help please email us at ambassadors@physics.gla.ac.uk or phone on 0141 330 6396** and we can liaise with the appropriate school on your behalf.

SCHOOL / EVENT	DATE	REQUEST
All Saints Secondary, Glasgow	7 th -18 th Dec 09	Looking for Ambassadors who are involved in design and construction of bridges to talk to S3 pupils.
Gourock Primary School	As soon as possible	Help with new Young Engineers and Science Club
St Joseph's Primary, East Renfrewshire	Tues or Thurs afternoons January 2010	Help with project on sound linked to hearing and making instruments
Hermitage Academy, Helensburgh	11 th -15 th January 2010	Event to raise awareness of Core Skills in work. Activity provided by Business Dynamics
Bannerman High School, Glasgow	January 2010	Looking for help with Science lessons
Douglas Academy, Milngavie	January 2010	Talks on modern chemical techniques
St Mungo's Academy, Glasgow	January 2010	Help with Advanced Higher Physics projects
St Conval's Primary, Glasgow	January 2010	Talk to pupils about Bridges and Clyde water foundation
Christie Park Primary, Alexandria	Tuesdays 3-4pm starting 26 January 2010	Help with Young Engineers and Science Club
Clober Primary, Milngavie	January 2010 or later	Help with topics from P1 to P7 –see detail overleaf
Glasgow Academy, Glasgow	January 2010	Help with Bronze and Silver Crest Awards starting Jan 10.
Marr College Troon	Jan/Feb 2010	Ambassadors required for speed networking at careers event
Irvine Royal Academy	Jan/Feb 2010	Ambassadors required for speed networking at careers event
Braidhurst High, Motherwell	Jan/Feb 2010	Ambassadors required for speed networking at careers event
Carluke High School	Jan/Feb 2010	Ambassadors required for speed networking at careers event
Paisley Grammar	Jan/Feb 2010	Ambassadors required for talks to S2 pupils on careers
Bearsden Academy	3rd Feb 2010	IET Faraday Challenge Day
Lockerbie Academy	4th Feb 2010	IET Faraday Challenge Day
Auchenharvie Academy	5th Feb 2010	IET Faraday Challenge Day
Killermont Primary.	Feb/Mar 2010	P2 Activities relating to senses and how

Bearsden		they can keep us safe. Also P6-7 Activities relating to Earth in Space in April 2010
Glasgow Science Centre	10 th , 11 th , 12 th March 10	Looking for Ambassadors to provide ECO related workshops at ECO days.
Knightswood Primary, Glasgow	15 th -19 th March 10	Looking for help with National Science and Engineering Week projects
Hutcheson's Grammar School, Glasgow	May 2010	Looking for advice/inspiration for a Biology/Maths Day from anyone who has worked with bees.

All Saints Secondary, Glasgow

All Saints Secondary School is having a Scottish themed week with all 3rd year pupils, between **7th and 18th December**. The Technical department is planning to teach pupils about Scottish engineering, particularly bridge building as this is one of the tasks they are going to set. Teachers would be delighted if a civil engineer or someone involved in the design or construction of bridges can speak to the pupils between these two dates.

Another area they will be looking at will be the Tay Bridge disaster and defects that might cause a bridge to collapse, as well as the Forth Road Bridge. The age group is 13 and 14 year olds who are currently working on Standard Grades.

If you would like to help with this request please contact us as soon as possible due to the short timescale involved.

Gourock Primary, Inverclyde

Gourock Primary has started a new young Engineers and Science Club and would appreciate any help at all that an Ambassador can give.

If you would like to help, even once a month, please get in touch with us.



St Joseph's Primary, East Renfrewshire

Would like an Ambassador to help with a project on sound linked to hearing and making instruments.

Hermitage Academy, Helensburgh

Hermitage Academy in Helensburgh is running an event with an organisation called Business Dynamics from 11th - 15th January inclusive. It is a Core Skills Programme which is designed to raise awareness of Core Skills in work and life-problem solving; such as communication skills and teamwork. This event will have a very similar structure as Business Awareness events which Business Dynamics currently run, but it is aimed at 3rd years and is delivered over two separate sessions lasting an hour each - exactly the same session but two different groups. Business Dynamics will provide the activity and all materials so there is very little work to do in terms of preparation.

Volunteers need to be confirmed before Christmas since there is very little time after the schools go back so please let us know as soon as possible if you can help with this.

Bannerman High School, Glasgow

Bannerman High is looking for help in general S1-S3 Science initially. An Ambassador with knowledge or experience of Curriculum for Excellence in science would be helpful. If you would like to be involved in initial discussions with the science dept as to how this can be rolled out please get in touch with us.

Douglas Academy, Milngavie

The Chemistry Dept at Douglas Academy would like to request an Ambassador to talk to the Advanced Higher students about modern chemical techniques in chemistry that are part of their Unit 3 AH course. The modern chemical techniques that are discussed are spectroscopy, NMR, X-ray diffraction. It may be quite useful if the students could get an opportunity to see such machines. If you can help out please get in touch with us.

St Mungo's Academy, Glasgow

The Physics Department at St Mungo's have a number of pupils doing Advanced Higher Physics and they would appreciate some help with their investigation projects. If you can help out please get in touch with us.

St Conval's Primary, Glasgow

Pupils at St Conval's Primary will be covering the topic of Bridges of the Clyde in January. They will be using materials from a website called Clyde waterfront education. They have requested a visit from the ICE Bridges to Schools team, but if any Ambassadors with experience in this area would like to visit the school and talk to the pupils before this visit takes place, please get in touch with us.

Christie Park Primary, Alexandria – Young Engineers and Science Club

Christie Park Primary plan to start up their Young Engineers and Science Club again after a successful stint last year. The teacher would like to run the club after school on a Tuesday, from 3pm-4pm, starting on 26th January for 4 to 6 weeks. She would love to have the assistance of a STEM Ambassador to come along and help her at the club.



The club is interested in taking part in next year's National Science and Engineering Week (12-21 March 2010), of which the theme is "Earth" and will be working on projects related to this during the 6 weeks. Please contact us if you would like to become involved in the club and help out.

Clober Primary, Milngavie

Clober Primary is very interest in the Ambassador Programme and has not used the services of Ambassadors before. The teachers have been busy identifying areas where Ambassadors can

help their classes and have compiled the following list of requests:

If you can provide talks or workshops on the following topics from January 2010 onwards, please let us know

- P1 - Understanding Earth and Space - Planets
- P2 - Understanding Earth and Space - Stars and Constellations
- P4 - Gases, Solids and Liquids
- P5 - Solar System - Earth, Sun and Planets. Dealing with temperature, position and atmosphere.
- P6 - Understanding Energy - Electrical and Sound
- P7 - Understanding Energy - Gravity and Weight

Marr College, Irvine Royal Academy, Braidhurst High, Carluke High

All 4 of these schools will be taking part in career events as part of the "Do Something Creative. Do Science campaign" in Jan/Feb 2010. We are looking for a group of Ambassadors for each school to take part in a speed networking event. Pupils will be aligned to groups and each group will spend 10 mins with an Ambassador to find out more about their career/job etc. We ran similar events last year and had 4 or 5 Ambassadors at each school. If we can get 6 Ambassadors for each school this year it will be great.



Dates are not confirmed for these events yet but let us know if you are interested in taking part and we will let you know the date as soon as possible. If you can let us know your line of work and employer (or otherwise) it helps us sort out the groups.

Paisley Grammar, Renfrewshire

Paisley Grammar is intending to host a career event for S2 pupils in January/ February and details have yet to be confirmed. If you are interested in talking to S2 pupils about a career in science or engineering please let us know and we will send you more information as we receive it.

IET Faraday - Bearsden Academy, Lockerbie Academy, Auchenharvie Academy

The IET Faraday inspires students in the world of science, engineering and technology and encourages students to become involved in it. Every year, the IET Faraday investigates different aspects of science and engineering to highlight the diversity and excitement of this high technology profession.

The **IET Faraday Challenge Days** are held at schools around the UK and give student teams the opportunity to research, design and make solutions to genuinely tough engineering problems. This year's theme is Urban Evolution and is an exploration into the technologies that support sustainable urban living.



Pupils from Lenzie Academy who won IET Faraday Challenge 09 at the Big Bang in London in March 09

You are most welcome to attend a Challenge Day in the following schools:

Bearsden Academy	3rd Feb 2010
Lockerbie Academy	4th Feb 2010
Auchenharvie Academy (Ayrshire)	5th Feb 2010

It will give you the opportunity to meet students and help us to enthuse and engage the engineers of the future. It will also give you a taste of the work currently being done by the IET to engage students in science, technology, engineering and maths (STEM) subjects and careers.

You might like to take a look at the Faraday Challenge Final Film, which was produced at the Big Bang Fair, to give you an idea of what to expect at the Challenge Days. Visit <http://faraday.theiet.org/urbanevolution/challenge/>

If you are interested in attending, please get in touch with us.

ECO Days at the Glasgow Science Centre

The West of Scotland STEM Partnership group, in conjunction with the Glasgow Science Centre run a series of ECO days in March every year. The planned Eco-Days 2010 aim to expand upon the success of previous years. Pupils have the opportunity to experience interactive workshops and other activities offered by a range of organisations. The content of the days covers aspects of all sciences but there will be a strong emphasis on topics such as renewable energy, regional impacts of climate change and new materials.



If you or your organisation would like to offer a workshop for 1,2 or all 3 of the ECO days please get in touch with us. Ideally workshops should accommodate up to 33 pupils and run for between 30 minutes to an hour. Running perhaps twice a day, you will require to have at least 2 leaders per workshop.

Knightswood Primary, Glasgow

Knightswood Primary school in Glasgow is currently planning to organise a science week within the school starting the 15th of March 2010. They are looking for Ambassadors who would be happy to lend their expertise to try and captivate their young learners.

If you have an activity or outreach you could provide to Knightswood during their science week please get in touch with us.

Other information of interest to Ambassadors...

British National Space Centre Awards



“Space for All” is a new community sponsorship award scheme from the BNSC, and the first round of funding is now open.

Organisations and individuals are invited to apply for funding for innovative projects that promote the UK space programme, and inspire the use of space as a focus for learning in schools and colleges.

Applications are welcome from anyone including academic or research institutions (including schools, universities, research councils, BNSC Partners), charities and companies (including not-for-profit). Individuals wishing to apply should partner with a local organisation to support their application.

For this first round of funding, up to £5,000 is available per project with a total fund of £30,000.

Projects can be aimed at specific audiences and may include: sponsorship of events; delivery of curriculum enrichment activities; delivery of activities to promote careers in the space sector, preparation of plans for long term projects, development of web or social media outreach content.

For more information please visit <http://www.bnsc.gov.uk/12197.aspx>

UK Resource Centre for Women

The UKRC has many events and opportunities for women in science, engineering and technology.

Get SET for Coaching in Scotland and in the South East

GetSET Women Coaching was launched in November. This service is aimed at working women tackling work-based issues relating to their career development. This could be securing a promotion, getting established at management level or dealing with issues caused by working in a male dominated workforce. It is hoped that up to 50 women will be assisted in the two pilot areas – Scotland and the South East, between now and the end of March.

Visit www.getsetwomen.org/html/getset-women-coaching for more information.

Induction Training

If you have not already undertaken your induction training, the next session will be run on **Tuesday 12th January at 2:30pm** in the University of Glasgow. This is an additional session to cope with the high demand we have had for new Ambassadors training. If you would like to register for this induction please email or call us and we will reserve a place for you. The training will last around 1.5 hours and will enable you to complete your disclosure form also. The next training after this will be Tuesday 23rd February 2009 at 3pm.

If you have many employees at your place of work who are interested in becoming Ambassadors we can organise for induction training to be delivered on-site. We require a minimum of 10 people for this training however. Please get in touch if you are interested in discussing this.

Thank you once again for all your efforts and please take a good look at the requests on offer and see where you can help out. Please remember to record your activity at www.stemnet.org.uk!!

A very Merry Christmas when it comes
Regards



Science Connects Operations Manager