

Welcome to the November Science and Engineering Ambassador (SEA) newsletter. We are now into the second quarter of the new STEMPOINT contract and things are busier than ever! Welcome to the new set of Ambassadors who have joined in the last couple of months, our numbers are increasing dramatically and we thank you for your interest in working with schools and promoting STEM subjects to pupils.

We have now completed the cleansing of the Ambassador database ([www.stemnet.org.uk](http://www.stemnet.org.uk)) and you should now be using it regularly to update your details and record activities that you are involved in with schools. You need to have a valid disclosure and have attended induction training to be able to access your records on-line. If you have not received your username and password yet please contact us at [seas@physics.gla.ac.uk](mailto:seas@physics.gla.ac.uk) to request it.

Our list of requests from schools is growing daily so please take time to look at the list overleaf and volunteer to help if you can. We have been giving SEAS presentations to many teachers in the West of Scotland, spreading the word about the Ambassador Programme and hence we are getting many more requests. To ensure that we fulfil teacher's expectations of the SEAS Programme it is important that **we can provide Ambassadors to them as required** – we need YOUR help to do this!

### New Website

Our existing website, [www.setpointscotlandseas.org.uk](http://www.setpointscotlandseas.org.uk) will be replaced by the new website [www.stemscotland.com](http://www.stemscotland.com) by the end of November. You will be directed automatically to this new site but it is useful for you to know that we have changed! This new website covers all 4 areas in Scotland and our area can be found by clicking on the "West" button. Information will be added to these pages over the next few weeks.

The national website [www.stemnet.org](http://www.stemnet.org) gives information on a UK wide basis.



### The new 3 STEM Directories

This free resource has recently been published to provide information for teachers on schemes and activities provided by organisations from across the UK that aim to enhance and enrich the curriculum. Each activity is linked to the curriculum and is usually based around events or experiences that cannot be delivered with standard school contacts and resources. The STEM Directories are delivered in three distinct volumes: Science, Engineering and Technology, and Mathematics. The directories can be viewed online at [www.stemdirectories.org.uk](http://www.stemdirectories.org.uk) and you can order a copy of each from the website, **free of charge**.



## REQUESTS for HELP

The following requests have been made by schools and organisations. **If you can help please email us at [seas@physics.gla.ac.uk](mailto:seas@physics.gla.ac.uk) or phone on 0141 330 6396** and we can liaise with the appropriate school on your behalf. The ones highlighted in **RED** are urgent requests that the teacher needs help very soon.

Please see overleaf for more information on each of the requests listed in the table.

| SCHOOL  | DATE                       | REQUEST   |
|---|----------------------------|---|
| Calderglen Secondary, East Kilbride           | As soon as possible        | Help with KNEX Challenges in Primary Schools associated with Calderglen   |
| <b>Holy Cross High School, Hamilton</b>       | <b>As soon as possible</b> | <b>Help with KNEX Challenges in Primary Schools associated with Holy Cross</b>  |
| Harestanes Primary, Kirkintilloch             | As soon as possible        | Help with "Inventors Project"   |
| Mossneuk Primary, East Kilbride               | As soon as possible        | Help with Young Engineers Club (till March 09)  |
| Christie Park Primary, Alexandria             | As soon as possible        | Help with Young Engineers Club  |
| St Philomena's Primary, Glasgow               | As soon as possible        | Help with Young Engineers Club  |
| <b>Ravenscraig Primary, Greenock</b>          | <b>As soon as possible</b> | <b>Help with Imagineering Kits at Young Engineers Club</b>  |
| Jordanhill School, Glasgow                    | As soon as possible        | Help with Physics club for S1-S3 pupils   |
| St Mungo's Academy, Bridgeton, Glasgow        | As soon as possible        | Help with Advanced Higher Chemistry projects  |
| Bellahouston Academy, Glasgow                 | As soon as possible        | Help with 12 Advanced Higher Biology Investigations   |
| <b>Hillpark Secondary, Glasgow</b>            | <b>As soon as possible</b> | <b>SEAs required <b>urgently</b>, to give career's talk to Advanced Higher Physics and Biology classes about studying at University</b> |
| <b>St Ninian's High School, Kirkintilloch</b> | <b>As soon as possible</b> | <b>Looking for help to do mock interviews with university applicants</b>  |
| Glasgow Science Centre                        | 18th-21st November 08      | Chemists required to help with "Green Chemistry Week"   |
| St. Margaret Mary's School, Castlemilk        | 26th November, 1:15-3pm    | Opportunity to help an Ambassador who is running a Fun Maths Roadshow at the school   |
| Kilsyth Academy, North Lanarkshire            | 16th-17th December         | Help with Institute of Physics Lab in a Lorry   |
| Auchinairn Primary, Bishopbriggs              | From January 09            | Help with starting a new science club   |
| Harestanes Primary, Kirkintilloch             | From January-March 2009    | Help with Young Engineers Club  |

| SCHOOL                               | DATE                           | REQUEST  |
|--------------------------------------|--------------------------------|--|
| Jordanhill School, Glasgow           | From January 09                | Help with Energy Resources Project for S2  |
| Various schools in Scotland          | From January 09                | Civil Engineers required to give talks at schools for launch of WestPoint Bridge Competition |
| St Andrew's High School (Coatbridge) | Jan-June 2009 and Aug-Dec 2009 | Help with Coatbridge College project on Forensic Science                                     |
| St Margaret's High School (Airdrie)  | Jan-June 2009 and Aug-Dec 2009 | Help with Coatbridge College project on Forensic Science                                     |
| Doonfoot Primary, Ayr                | February/March 2009            | Help or Talk connected to "Forces" Project with P7 class. Wednesday afternoon preferable     |

### Primary schools in Calderglen & Holy Cross Clusters

We have been running the K'NEX Challenge for over 8 years now and schools are getting quicker off the mark in asking for help! Both Calderglen Secondary in East Kilbride and Holy Cross High School in Hamilton are looking for Ambassadors to help with **K'NEX** workshops and judging challenges in the associated primary schools. These activities will happen between November and December so if you can let us know as soon possible if you are able to help, we can get dates organised with the teachers. You do not need experience of K'NEX to help out, just enthusiasm!



2008 Scottish Winners –  
Heathery Knowe Primary, East Kilbride

### Harestanes Primary, Kirkintilloch



Harestanes Primary has two requests!  
From October to December 2008, the pupils will be working on an '**Inventors Project**' and the Science and Technology teacher would like an Ambassador to help in any way towards this. Examples could be talking to the pupils about inventions, helping develop their ideas, help them research patents, build models etc. If you can assist at all towards this project you will be appreciated!

The teacher also wishes to run an after school **Young Engineers' Club** for six weeks from 20th Jan – 3rd March (excluding half term holiday). Timing would be from 3 -4pm. It will be run with P6 and P7 pupils and there will be limit of 10 children to the club. If you can help with the club during this period it would again be appreciated.

### Mossneuk Primary, East Kilbride



Mossneuk Primary in East Kilbride would like to run a **Young Engineers' Club** in terms 3/4 which will be from 20<sup>th</sup> October to end of March 09. They would like an Ambassador to assist with the Club and help the pupils with their various projects. Any assistance will be appreciated.

### Christie Park Primary, Alexandria



Christie Park Primary in Alexandria would like to run a **Young Engineers' Club** in term 3 which will be from 20<sup>th</sup> October to middle of December. They would like an Ambassador to assist with the Club and help the pupils with their various projects. Any assistance will be appreciated.

### St Philomena's Primary, Glasgow



St Philomena's Primary successfully ran a **Young Engineers' Club** for 3 years, until the beginning of the academic session in 2007. Last year they were unable to run the Club due to lack of support but are keen to start it up again and enthuse the pupils in engineering related subjects. They really need a supportive Ambassador to encourage the pupils and to keep the club going. If you can help out, even only every few weeks instead of every week it would be a great help to them.

### Ravenscraig Primary, Greenock



Ravenscraig Primary would like the assistance of an Ambassador to help with a Young Engineers Club. The class teacher will be working with 10 children from Primary 6 on Imagineering Kits. When they have completed all the tasks they will start the next group of 10.

The school would have liked to have started on Friday 7th November but already we have missed this deadline. All sessions would be Fridays from 2-3pm though none on Friday 19th December - re-starting Friday 9th January.

### Jordanhill School, Glasgow

Jordanhill School would like help with a **Physics type club** for S1-S3 students. They don't currently offer extra-curricular clubs in Physics and hope that the use of an Ambassador would generate interest with the students.

In addition, as part of the S2 course, they will be doing an **Energy Resources** project in January 09. An Ambassador is requested to give a talk on current technology in this area.

### St Mungo's Academy, Glasgow

St Mungo's Academy, in Bridgeton, Glasgow, has some 6th year pupils who are about to do their Advanced Higher **Chemistry** projects. Limited equipment and lab space is a problem in the school and they are looking for help with the projects and/or equipment.

The investigations they hope to carry out are:

1. Comparing VitC levels of different branded orange juices
2. Investigation of fat contents in various burgers
3. Investigation of tannins and sulphur dioxide in red wine
4. Extraction and comparison of caffeine content in energy drinks
5. Analysis and fat content in various types of sausages
6. Quality of water -Dalmarnock -Common wealth games village site

If you can provide any help with these projects please get in touch with us.

### Bellahouston Academy, Glasgow

The Principal Teacher of Biology at Bellahouston has 12 Advanced Higher Biology students and there is little time to support them in their investigation. We are looking for a University Department which can help the students with their investigations. The pupils would come to the University to undertake these.

### Hillpark Secondary

Hillpark Secondary would like Ambassadors to talk to Advanced Higher Physics and Biology classes about studying at University. This is an urgent request as the pupils are thinking about their next stage of education and applying to universities.

### Chemists still wanted!

Green Chemistry Week for secondary pupils is scheduled for 10th-21st November and will run at the Glasgow Science Centre.

If you are interested in contributing to the week's activities please volunteer! More information can be found at [www.gsc.org.uk/chemistryweek.aspx](http://www.gsc.org.uk/chemistryweek.aspx)



### St Margaret May's, Castlemilk

One of our new Ambassadors deliver a FunMaths Roadshow to schools. She is visiting St Margaret Mary's on 26th November and has volunteered to have an Ambassador along with her to find out more about it. This would be ideal for a Maths related Ambassador to "dip their toe in the water" to visit a school and be involved, without having to run an activity themselves.

### Auchinairn Primary, Bishopbriggs

The school is starting from a very low base regards science so at this stage they have no preference as to what the specialism/focus may be, it is more important that they just start to raise the profile. They are be very flexible as to when this might happen, but a 6 week block would be ideal if possible.

### North Lanarkshire Forensic Science (Coatbridge College)

Coatbridge College is delivering a Forensic Science Programme to St Andrew's High School and St Margaret's High School in North Lanarkshire during next year. This will consist of a six-week rolling programme of activities, which will use forensics as a hook to engage and inspire young people aged 11-14 to pursue science subjects and consider the career opportunities offered in this area.

The programme will be delivered after school hours, 3.45pm – 4.45pm. It will run from January – June 2009 and then August-December 2009 and consist of

- Forensics is Fun Programme - one hour workshop each week x six weeks x 20 students
- 3 consecutive programmes per school x 2 mainstream schools

If you are interested in being involved in this project please let me know and I will give you more information.

### Doonfoot Primary, South Ayrshire

The P7 class are covering the topic on "Forces" during February and March in 2009. The teacher would like an Ambassador to either give a talk on Forces or else help with activities relating to Forces. A Wednesday afternoon suits them best.

### Lab in Lorry

The Institute of Physics Lab in a Lorry will be visiting North Lanarkshire Schools in December.

16-17<sup>th</sup> Dec, Kilsyth Academy,  
18-19<sup>th</sup> Dec – North Lanarkshire School

Training will be given before the day starts so no worries about not knowing what to do!

For more information on Lab in a Lorry please see [www.labinalorry.org.uk](http://www.labinalorry.org.uk)

## Maker Fair - McMADSAT09

One of our Ambassadors is running an event for “makers” (I am sure there are many of you out there!) during National Science and Engineering Week next year. This will be a unique event bringing together science, art, craft and engineering in a fun public forum. If you are an amateur inventor or a professional maker of amazing things, if you love tinkering, sticking, sewing, welding or gadgetry, then this is the event for you! The aim of the day is to encourage people of all ages to roll up their sleeves and become “makers”. You can also enter a project to exhibit if you have something that you have been working on at home or in the garage!

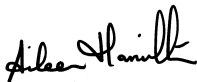
The event will be held on March 14<sup>th</sup> 2009 at the Glasgow Science Centre.

For more information please contact [mcmadsat09-makerfairglasgow@yahoo.co.uk](mailto:mcmadsat09-makerfairglasgow@yahoo.co.uk)

## Induction Training

If you have not already undertaken your induction training, the next session will be run on **Tuesday 16<sup>th</sup> December at 3:00pm** in the University of Glasgow. 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 20<sup>th</sup> January 2009 at 3pm.

Regards



Science Connects Operations Manager