

## IOP London and South East E-Bulletin – December 2012

Welcome to the IOP London and South East Branch's third e-bulletin. As you know, the aim of this newsletter is to be a one stop shop keeping IOP members up to date with up and coming events and opportunities as well as what the Branch is doing in their local area.

### Keep Updated

There are a host of ways for you to find out about what your local IOP branch is doing.

On the web <http://london.iop.org>

On Facebook [www.facebook.com/ioplse](http://www.facebook.com/ioplse)

On Twitter [@IOPLSE](https://twitter.com/IOPLSE)

### L&SE Membership Questionnaire 2012

Recently you should have been contacted about filling out the L&SE Membership Questionnaire 2012. The questionnaire gives members the chance to have their say about how the Branch is run and what they would like to see in the future.

It only takes five minutes and the more members that fill out the survey the better understanding the Branch Committee will have of what people think – so if you haven't already done so please complete the questionnaire here: <http://www.surveymonkey.com/s/B9XX23G> (the deadline has been extended until 16<sup>th</sup> January 2013).

### Lecture Series (January and February)

The New Year will see the continuation of the London and South East Branch's lecture programme. The IOP strongly encourages members to bring along guests to these free public lectures. Please click on the links below for further details.

[KENT - 22 January, 7.30 p.m. - Prof. Paddy Farrell](#)

**Why do social networks perform so well? Answer: correcting errors in digital information**

[LONDON - 23 January, 6.30 p.m. - Prof. Fritz Vollrath](#)

**Unravelling Spider Silks**

**HERTS – 30 January, 7.00 p.m. – Victoria Vaccaro**

**The Secret Life of Neurons** (full details on leaflet below)

[KENT - 5 February, 7.30 p.m. - Prof. Wade Allison](#)

**Radiation and Reason: a Fresh Look at the Effect of Radiation on Life**

[London - 23 October, 7.30 p.m. - Dr David S Berman](#)

**Theoretical Physics and String Theory**

**MILTON KEYNES - 12 February, 7.30 p.m. - Prof. Paddy Regan**

**Nuclear Spectroscopy: From Natural Radioactivity to studies of the most exotic isotopes** (full details on leaflet below)

[AWE - 18 February, 7.30 p.m. - Dr Andrew Norton](#)

**Exoplanets and How to Find Them**

**LONDON - 20 February, 6.30 p.m. - Dr Steve Kane**  
**The Physics of Finance** (full details on leaflet below)

**[HERTS - 27 February, 7.00 p.m. - Prof. Malcolm Smith](#)**  
**The Inerter for Control of Mechanical Systems**

Full details of the above events and others can be found on the London and South East Branch Public Lectures Leaflet January to June 2013 [here](#).

### **L&SE Branch Newsletter**

Packed with stories about what the Branch has been up to, if you haven't had chance to see it yet then you can check out the latest newsletter [here](#).

### **Volunteering Opportunities**

**Science Career Speed Networking at Sacred Heart RC School, Southwark, London**  
<http://www.sacredheart.southwark.sch.uk/>

On Thursday 17<sup>th</sup> January from 1pm to 2.45pm the school will be holding a science careers networking event aimed at encouraging pupils to consider taking mathematics and science A-levels.

Volunteers are needed from a wide range of science-based professions to talk and be interviewed by the students about the benefits of both studying and then pursuing a career in science.

If you're interested in being involved or for further information contact [lee.crouch@iop.org](mailto:lee.crouch@iop.org).

**Lab in a Lorry comes to Somerset – January to March 2013**  
[www.labinalorry.org.uk](http://www.labinalorry.org.uk)

Lab in a Lorry is an interactive mobile laboratory, which gives young people (11–14 year olds) the opportunity to explore science through open-ended experiments. Volunteers guide the students through the experiments (optoelectronics and medicine, sound and resonance, light scattering and colours, oil and viscous liquids) and make sure everyone gets to be involved through hands-on experience.

The lorry will be touring Somerset throughout the start of 2013 with numerous dates available, so if you're in the area why not help out? For further details contact [james.bamford@iop.org](mailto:james.bamford@iop.org).

### **Internships – Employers Needed!**

[http://www.sepnet.ac.uk/employer\\_services/summer\\_internships/index.html](http://www.sepnet.ac.uk/employer_services/summer_internships/index.html)

SEPnet's Summer Funded Internships Programme 2013 is seeking employers to provide placements for physics undergraduates.

SEPnet's annual internship scheme enables employers of physics graduates access to some of the brightest minds and provides 30 students with **fully-funded bursaries** to allow them to work for 8 weeks in industry.

The scheme introduces students to the scientific workplace and is an invaluable resource for employers looking for a fresh perspective on their business challenges. Employers participating in the scheme include National Physical Laboratory, Selex Galileo, QinetiQ, the Met Office and a number of SMEs.

Internships take place from June to September with the proposed projects being selected on academic merit and the potential for students to gain commercial awareness and soft skills like communication and teamwork.

For further information interested employers should contact [veronica.benson@sepnet.ac.uk](mailto:veronica.benson@sepnet.ac.uk) or register on the following link: <http://www.surveymonkey.com/s/SEPnet-Projects2013>.