

Institute of Physics Teacher Network: London Area Summer 2009 Newsletter

Have you passed this round?

London Network news

A-level teachers' Day

19th March, IOP headquarters, W1
Dr Damian Pope, from the
Perimeter Institute, Ontario,
Canada gave an 'inspirational'
talk on 'The Mystery of Dark
Matter'. He also took us
through the free kit on offer
and, most importantly,
answered many questions from
the 35 teachers who attended.

After lunch there was a choice
of two engaging hands-on
workshops. 'Using electron
beam tubes' was led by Robert
Strawson (an IOP network
Coordinator) and a team from
the manufacturers, UK 3B
Scientific. Frances Green led a
workshop based on everyday
resources, 'All Day Physics:
breakfast, dinner & tea'.

The day ended with
'Nanotechnology – what's all
the fuss about?', a lecture by
Prof Richard Jackman, London
Centre for Nanotechnology,
UCL. Both lectures were
webcast – see links from the
London IOP webpage.



Whitton day April 1st

Twelve non-specialist teachers
of physics in the Whitton area
enjoyed a one-day programme
run by Frances Green, which
included the 'All Day Physics:
Breakfast, dinner and tea'

IOP Institute of Physics

Physics Teacher Network

**A national network to
support all those who teach
physics in schools.**

Together we work two days a
week as London's Teacher
Network Coordinators.

Our main aims are to

- Establish ways for London
physics teachers to
communicate.
- Support non-specialists
teaching physics at KS3 and
especially KS4.
- Set up university and
industry contacts that help
with physics education and
encourage students to
continue studying physics.

There are over 400 secondary
schools in the London area.

**We therefore try and work
with *clusters* of schools.**

Peter Campbell

pcampbell@nuffieldfoundation.org

Frances Green

frances.green656@gmail.com

workshop plus some more
formal sessions about teaching
electricity, forces and
momentum.

Free software

HyperPhysics

A free web resource based at
Georgia State University.
Especially useful for non-
specialist teachers of physics.
Online tutorials cover a wide
range of physics topics,
organized through extensive
concept maps.

[http://hyperphysics.phy-
astr.gsu.edu/hbase/hph.html](http://hyperphysics.phy-astr.gsu.edu/hbase/hph.html)

Teacher events CPD

London Teacher Network **Free one-day CPD for non- specialist teachers of physics**

Practical workshops &
discussion, focussing on KS3
and GCSE Physics.

Workshops include

- Teaching electricity
- Teaching radioactivity
- All day physics: breakfast,
dinner and tea!
- Engaging students with the
electromagnetic spectrum

Choose *one* of 4 venues.

Monday 6 July – Trinity Catholic
High School, Woodford Green,
IG8 0TP

Wednesday 8 July – Burntwood
School, Wandsworth SW17 0AQ

Friday 10 July – St Gregory's RC
Science College, Kenton HA3
0NB

Tuesday 14 July – Sydenham
School, Lewisham SE26 4RD

Further details & registration.
[Enter code **LNC08244**]

[www.sciencelearningcentres.
org.uk/WebPortal.aspx?page
=5](http://www.sciencelearningcentres.org.uk/WebPortal.aspx?page=5)

IOP Physics Update

10 - 12 July 2009

University of Birmingham

For practising teachers of
physics and science.

- lectures on innovations in
physics & the curriculum.
- 'hands-on' workshops: try
new equipment & develop
new skills.

Contact: Leila Solomon

Tel: 020 7470 4800

Email: leila.solomon@iop.org

More **Teacher events CPD**
over...

Teacher events CPD continues

Science
LEARNING CENTRES



London SLC courses

NEW Science Additional Specialisms Programme (Physics)

Would you like to teach physics with confidence at GCSE and Advanced level?

Sponsored by TDA, this course is for Biology & Chemistry teachers in maintained schools, with QTS, who have completed their induction period.

You will be released from school every Monday during 2009-10, to develop your physics and physics teaching knowledge & skills.

A £200 Impact Award is available for the courses below:

Science Newswise

Tuesday 9 June 2009

CLEAPSS: Radiation Protection Supervisor

Training Tuesday 9 Jun 2009

STEM Subjects Working Together, Embracing the Big Picture

Wednesday 17 Jun 2009

Masterclass in A-Level Physics

Friday 3 Jul 2009

Learning in Museums for KS3 and KS4

Thursday 9 Jul 2009

Further information:

www.sciencelearningcentres.org.uk/?page=5



The Association for Science
Education

ASE South East Area Science & CPD Conference

Guildford, Friday 26 June 2009

Details: www.ase.org.uk

Royal Society Summer Exhibition

Tues 30 June – Sat 4 July 2009

Over 20 interactive exhibits covering pioneering research topics, from how fluorescent fish could provide better understanding of human disease to how new space missions could help unlock the history of the universe. Go and quiz the scientists and engineers.

<http://royalsociety.org/event.asp?id=8256&month=6,2009>

Events for students

IOP Schools lecture 2009

‘How to explore the Universe: a tale of telescopes, time travel and extra-terrestrials’

Royal Institution

Monday 6 Jul 2009, 11:00 & 13:30

Contact: Olympia Brown

OBrown@ri.ac.uk

Queen Mary, Uni of London

Thursday 9 Jul 2009, 10:30 & 14:00

Contact: Laura Jackson

l.f.jackson@qmul.ac.uk

Grants

The Royal Astronomical Society gives grants for events, exhibitions or other activities related to 2009 International Year of Astronomy.

www.astronomy2009.co.uk/index.php/funding-mainmenu-65

Make accessing URLs simple.

Bookmark the IOP Teacher Network London webpage, so you can download electronic copies of this Newsletter.

www.iop.org/activity/education/Teacher_Support/Teachers_Network/London/page_5267.html

Teaching resources

‘Environment in your pocket’ 2008. free

A handy distillation of around 60 key data series, published annually by Defra. This issue focuses on climate change.

<http://www.defra.gov.uk/ENVIRONMENT/statistics/eiyp/>

Colliding Particles

Excellent film series & KS4 teaching resources. Show ‘how science works’ by following a team of research physicists involved with the new Large Hadron Collider (LHC) at CERN. Episode 4 looks at some theoretical work and gives an update on last year’s LHC ‘incident’.

www.collidingparticles.com/

Mystery boxes

A clever analogy to explain how science works. One of many resources available free from the Science Museum’s *Talk Science* website.

www.sciencemuseum.org.uk/educators/whats_on_for_teachers/talkscience.aspx

Contribute

The Autumn 2009 issue will be published in September. Please contribute

- forthcoming events
- useful teaching resources
- report of a classroom activity or school event.

Send copy by Friday 4th Sept to

Frances Green

frances.green656@googlemail.com

Information on the many services available from the IOP Education Department:
www.iop.org/activity/education/index.html

A level Teachers' Day Photos

