

Forthcoming events

3-9 June 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Germany (Rheinland-Pfalz, Baden-Württemberg) and takes place in German.

Contact: Mike Storr (mick.storr@cern.ch)

Until 4 June 2007

UK

Competition: Making a Mint

Send off for a free pack of mint seeds, a balance sheet and a wall chart of growing tips. Grow your own mint and then, if you like, devise some good ideas of how to sell it and let Planet Science know your total turnover. If you are in the top 50 money earners, your ideas will be considered for a prize of £1000 of gardening vouchers (£250 for each of the four runners up).

More information:

www.planet-science.com/outthere/mint/

3-24 June 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Finland and takes place in Finnish.

Contact: Mike Storr (mick.storr@cern.ch)

7 June 2007

Rugby School, Rugby, UK

Conference: 19th Annual Meeting for Teachers of Physics in Schools and Colleges

Organised by the Institute of Physics, this is a one-day meeting for teachers of physics in schools and colleges, and for teachers in training. The main purpose is to bring together physics teachers from both state and independent schools to learn about the latest developments in physics and

physics education. Three lectures are given by leading research physicists and by physics education experts, together with a series of six hands-on workshops, discussion sessions and a teacher exchange of news and information. The meeting also provides an opportunity for equipment suppliers, publishers and awarding bodies to communicate their new products. Most participants come from England and Wales, but teachers from further afield are very welcome. Conference fee: £30 including lunch (concession for new and trainee UK teachers: £15). Contact: Chris A. Butlin, Chairman of the Institute of Physics School Physics Group (ChrisAButlin@aol.com or +44(0)1904 607 169)

14 June 2007

Technopolis, Mechelen, Belgium Conference: PENCIL Final Science Teachers' Conference

Science teachers are invited to participate in workshops and debates on how schools and science centres can come together at the forefront of science education. The conference will give concrete examples of best practice from the 14 European PENCIL pilot projects, covering a wide range of topics and student age groups. These projects have been tested and evaluated in schools, as well as in science centres and museums. Using these results, the conference offers teachers pragmatic guidelines on the

following key areas:

- The introduction of new topics in science
- New approaches to teaching and learning traditional subjects
- Building relationships between schools and science centres and museums.

Teachers will have the chance to network and exchange their experiences with colleagues from all over Europe. The working language is English and participation in the conference is free.

More information: www.xplora.org/xplora/pencilconference07/

Contact: Michael Creek:
mcreek@ecsite.net

Until 20 June 2007

Germany

Competition: Science on Stage Deutschland 'Spannung in die Schule'

Secondary-school teachers in Germany are invited to enter this year's Science on Stage Deutschland competition, 'Spannung in die Schule' (Excitement at School). Entries should consist of exciting and practical teaching ideas, school projects or activities. They may include any subjects, but should be relevant to science.

Prizes worth up to €3000 will be awarded in September 2007 by Nobel prize-winner in physics, Professor J. Georg Bednorz.

More information:
www.science-on-stage.de

Contact: info@science-on-stage.de

23 June - 17 July 2007

Göttingen, Germany

Training course: International science camp

Organised by XLAB, the international science camps are open to interested high-school students and undergraduate college and university students, about ages 17-22, from all over the world. Courses are offered in biology, chemistry and physics and held by scientists from the University of Göttingen and affiliated research

organisations. The scientists are assisted by experienced technical assistants.

More information:

www.xlab-goettingen.de

July 2007

Moscow, Russia

Workshop: Space Development, Theory and Practice

It's 50 years since Sputnik 1 was launched by the Soviet Union, so what better way to celebrate than a trip to Russia?

The Space Development, Theory and Practice workshop is run by the Youth Space Centre, part of one of Moscow's best universities. You will visit the companies that made all the groundbreaking space hardware and learn about the past, present and future of space activities. Closing date: 8 April.

More information: <http://ysc.sm.bmstu.ru>
Contact: russia@uk.seds.org

2-21 July 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Europe and the USA and takes place in English.

Contact: Mike Storr (mick.storr@cern.ch)

4-6 July 2007

European Molecular Biology Laboratory, Heidelberg, Germany

Training course: ELLS LearningLAB

The European Learning Laboratory for the Life Sciences (ELLS) is an edu-

cation facility to bring secondary-school teachers into the research lab for a unique hands-on encounter with state-of-the-art molecular biology techniques. ELLS also gives scientists a chance to work with teachers, helping to bridge the widening gap between research and schools.

The three-day course is designed to enable the participant teachers to explore a range of activities, which they can practise in the lab and then take back to the classroom.

The course is open to 20 European high-school science teachers and is run in English. The course, including course materials, catering and accommodation, is free of charge; participants are expected to meet their own travel costs.

More information: www.embl.de/ells/

Contact: ells@embl.de

10 July 2007

Madrid, Spain

Workshop: Active Learning of Physics and Chemistry

Physics and chemistry teachers of different education levels are invited to a workshop organised by the Real Sociedad Española de Química (Spanish Royal Society of Chemistry) and the chemistry didactics group at Universidad Politécnica de Madrid, about cooperative learning, conceptual maps, problem-based learning, laboratory activities, and other educational tools for active chemistry and physics learning. It is also an opportunity to discuss the European credit-transfer system used at universities. All papers presented will be published in a book. The working language is Spanish but teachers from outside Spain are warmly welcome.

More information: www.etsii.upm.es/educativa/Jornada2007.htm

Contact: Prof. Gabriel Pinto

(gabriel.pinto@upm.es)

21-25 July 2007

Ecole Normale Supérieure, Paris, France

Science festival: Festival Paris Montagne 'Sur les traces des chercheurs' (Following the footprints of research)

This annual summer science festival is dedicated to children and teenagers from underprivileged backgrounds. It takes place at the prestigious Ecole Normale Supérieure, a university at the heart of the scientific area of Paris. The science festival opens the world of science and research to its 3000 visitors, aged 9-17.

More information:
www.paris-montagne.org

22-28 July 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

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This course is for participants from Spain and takes place in Spanish.

Contact: Mike Storr (mick.storr@cern.ch)

4-28 August 2007

Göttingen, Germany

Training course: International science camp

Organised by XLAB, the international science camps are open to interested high-school students and undergraduate college and university students, about ages 17-22, from all over the world. Courses are offered in biology, chemistry and physics, and held by scientists from the University of

Göttingen and affiliated research organisations. The scientists are assisted by experienced technical assistants.
More information: www.xlab-goettingen.de

18-30 August 2007

Petnica Science Center, Serbia

Training course: Petnica International Science School 2007

The summer programme of the Petnica Science Center gathers gifted and motivated school students from south-east Europe and beyond. This intensive and stimulating course on scientific research methods includes lots of practical exercises and real research projects under the supervision of experienced science educators and professional scientists.

All students aged 17-20 are eligible.

The main selection criteria are motivation for out-of-school learning and a demonstrated interest in science. Although school grades are important, they are not the deciding factor. Open-mindedness and willingness to work are much more important.

*More information: www.psc.ac.yu/pi
Contact: pi@psc.ac.yu*

19-25 August 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Hungary and takes place in Hungarian.

Contact: Mike Storr (mick.storr@cern.ch)

22-24 August 2007

Gembloux Agricultural University, Gembloux, Belgium

Conference: Congrès des Sciences (Belgian Science Teachers' Congress)

This congress for secondary-school science teachers includes lectures in science and didactics, workshops, demonstration experiments, a textbook and science-hardware fair, plus visits to various labs, industries and places of scientific interest. The working language is French and the congress fee is €10 (or free for many teachers).

More information:
www.congres-des-sciences.be
Contact: accueil.information@fsagx.ac.be or presidence@congres-des-sciences.be

26-31 August 2007

Opatija, Croatia

Conference: GIREP-EPEC: Frontiers of Physics Education

For the first time, the GIREP (International Research Group on Physics Teaching) Seminar is organised as a joint event with the European Physics Education Conference (EPEC). Whereas GIREP traditionally gathers experts and practitioners in educational physics, EPEC is a young conference organised by the European Physical Society, which attracts the top physicists in Europe. The joint conference will bring together physics teachers from schools and universities across Europe, encouraging dialogue and the exchange of best practice in physics education.

Teachers are invited to join this conference. (Theme to be arranged, the working language will be English.)

*More information: www.ffri.hr/GE2/
Contact: ge2@ffri.hr*

1-8 September 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Germany (Bavaria, Nordrhein-Westfalen) and takes place in German. Contact: Mike Storr (mick.storr@cern.ch)

9-15 September 2007

York, UK

Science festival: The BA Festival of Science

In September, the University of York, the city of York and the surrounding area will experience an explosion of science. From excursions and hands-on family days to debates on current hot topics and unique opportunities to question the UK's top scientists, the BA Festival of Science offers something for everyone.

Schools can be involved through a programme of specifically designed activities for students of all ages, their teachers and their supporters. As Europe's largest celebration of science, it offers the opportunity to find out about latest developments in an exciting and informative way by connecting with a range of scientists, engineers, technologists, museums and businesses. There is also a strand of education events specifically aimed at science teachers.

Local UK schools will receive full details and booking information in the summer term. To make sure you are on the mailing list, email or call

the contact details below, mentioning the schools programme.

More information:

www.the-ba.net/festivalofscience

Contact: festival@the-ba.net

or telephone +44 (0)20 7019 4963

9-15 September 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16. The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Portugal and takes place in Portuguese.

Contact: Mike Storr (mick.storr@cern.ch)

14 September 2007

Universität Kassel, Germany

Workshop: English-language biology and chemistry lessons in German schools

Biology and chemistry teachers who teach in English are invited to a workshop organised by the Verband deutscher Biologen and the Vereinigung der Schulen mit deutsch-englisch bilingualem Zug in gymnasialen Bildungsgängen in Hessen. Participants who already have experience in bilingual teaching are requested to submit worksheets or teaching ideas for a joint collection of teaching materials. Teachers from outside Germany are warmly welcome. Workshop fee: €10

Contact: Matthias Bohn (mbohnnde@aol.com)

14-20 September 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16.

The courses are free of charge, and participants are expected to pay for their travel expenses and accommodation.

This course is for participants from Germany (Baden-Württemberg, Sachsen and Sachsen-Anhalt) and takes place in German.

Contact: Mike Storr (mick.storr@cern.ch)

10-12 October 2007

**European Molecular Biology Laboratory, Heidelberg, Germany
Training course: ELLS LearningLAB**

The European Learning Laboratory for the Life Sciences (ELLS) is an education facility to bring secondary-school teachers into the research lab for a unique hands-on encounter with state-of-the-art molecular biology techniques. ELLS also gives scientists a chance to work with teachers, helping to bridge the widening gap between research and schools.

The three-day course is designed to enable teachers to explore a range of activities, which they can practise in the lab and then take back to the classroom.

The course is open to 20 European high-school science teachers and is run in English. The course, including course materials, catering and accommodation, is free of charge; participants are expected to meet their own travel costs.

More information: www.embl.de/ells

Contact: ells@embl.de

31 October - 2 November 2007

CERN, Switzerland

Training course: CERN high-school teacher programme

CERN, the world's largest particle physics laboratory, organises courses for physics teachers who would like to increase their knowledge of particle physics and cosmology, who want to find out more about the world of frontier research, and who wish to bring modern physics into their classrooms. The course materials are aimed at students of ages 13-16.

The courses are free of charge, and the participants are expected to pay for their travel expenses and accommodation.

This course is for participants from France and takes place in French.

Contact: Mike Storr (mick.storr@cern.ch)

Until 30 November 2007

Italy, Austria and Switzerland

Competition: Junge Forscher gesucht! – Giovani ricercatori cercansi! (Wanted: young researchers!)

In this search for talented young researchers, young people are required to develop scientific projects on many topics, including art and music. Regional finalists, selected on the basis of a report they submit, present their project to an international jury and the public. Prizes of €1500-3000 are awarded.

The competition is open to people aged 16-20, living in South Tyrol (Italy), Trentino (Italy), Tyrol (Austria) or Grisons (Switzerland) and is held in the regional languages German and Italian.

To enter the next competition, register before 30 November 2007. The final event will take place in March 2008 at the University of Innsbruck, Austria.

More information:

www.explora-science.net/wettbewerb

Until 12 December 2007

many UK venues

Lectures: Institute of Physics Schools Lecture Series 2007

The science of light and colour is fantastically important in an enormous number of areas: from observing and understanding the universe in astronomy; to diagnosis and treatment processes in medicine; to efficient communications and signal processing in industries.

The Institute of Physics 2007 schools' lecture will be presented by Dr Pete Vukusic, a researcher and lecturer at the University of Exeter's School of Physics. He is one of the leading scientists in the world involved in broadening our understanding of how nature uses and controls the flow of light and colour.

Light Fantastic: The Science of Colour will open pupils' eyes to the basic concepts of the science of light and colour and show how technology is making the most of light's astonishing properties. This presentation will include demonstrations, hands-on activities and movie clips to help shed light on the science of colour. The lecture lasts an hour and is suitable for students aged 14-16.

More information: www.iop.org

Throughout 2007

Schullabor Novartis, Basel, Switzerland

Workshop: 'Gentechnik Erleben' (Experience Genetic Engineering)

These workshops focus on practical laboratory work, but background information is given for all experiments. Students isolate plasmid DNA from bacterial cultures and digest it with restriction enzymes. The resulting DNA fragments are separated and visualised by gel electrophoresis.

Students should already have the necessary theoretical background and be over 17 years of age. The workshops are free, are in German or English (on request) and have a maximum of 20 participants.

More information: www.schullabor.ch

Contact: gesche.standke@novartis.com

Throughout 2007

Schools and other venues in England Roadshow: Cool Seas

Run by the Marine Conservation Society, the Cool Seas Roadshow will visit 150 primary schools throughout England between September 2006 and March 2008. It entertains and educates primary/junior school children about England's spectacular marine wildlife, using life-size inflatable models of whales, dolphins, sharks, turtles, seals and porpoises in dynamic presentations given by a marine wildlife education specialist. The roadshow takes a full day at each school, and is free.

Each school that is visited receives printed materials and web-based resources, including an activity booklet and bookmark for every pupil, and a poster for every classroom. The web-based resources can be viewed here: www.mcsuk.org/coolseas The project also has funding for 37 visits to English venues other than schools, mostly in summer 2007. If you have a large and suitable audience who would like a visit from the Cool Seas Roadshow, please get in touch.

More information: www.mcsuk.org/mcsaction/education/cool+seas+roadshow
Contact: Angus Bloomfield (angus.bloomfield@mcsuk.org)

Throughout 2007

10 locations around the UK

Training courses: Science continuing professional development

The national network of Science Learning Centres, set up by the UK Department for Skills and Education and the Wellcome Trust, provides continuing professional education for everyone involved in UK science education, at all levels. With nine regional centres and a national centre in York, access to innovative and inspiring courses is within reach across the UK.

The centres not only deliver hundreds of courses, but also act as a focus for all the science learning activities in their region.

More information:

www.sciencelearningcentres.org.uk

Contact: enquiries@national.slcs.ac.uk

Throughout 2007

Glasgow Science Centre, Glasgow, UK

Free teacher visits

Teachers, classroom assistants, nursery teachers and technicians are invited to visit the Glasgow Science Centre free to explore and investigate what's on offer.

More information:

www.glasgowsciencecentre.org

Contact: +44 (0)871 540 1003

Throughout 2007

Many Scottish venues, UK

Roadshow: Science Circus

Glasgow Science Centre's outreach team brings all the fun of the science centre directly to schools and community groups throughout Scotland thanks to their lively travelling 'Science Circus'. Science Circus activities consist of amazing live science shows and interactive exhibits delivered at your venue.

More information:

www.glasgowsciencecentre.org

Contact: +44 (0)871 540 1004

Throughout 2007

Pembrokeshire, Wales, UK

Field trip: Rockpools

The Pembrokeshire Darwin Science Festival invites all primary schools in Pembrokeshire to book a rockpool ramble and identification field trip. The course is aimed at Key Stage 2 pupils (ages 8-11), takes half a day and is led by three qualified marine scientists. Cost: £250 with a bus or £170 without a bus. Maximum 30 children.

More information:

www.darwincentre.com

Contact: Marten Lewis

(M.B.Lewis@pembrokeshire.ac.uk)

Throughout 2007

Pembrokeshire, Wales, UK

Workshops: Primary school

The Pembrokeshire Darwin Science Festival offers a double workshop visit for a maximum of 30 Key Stage 2 pupils (ages 8-11) at a cost of £200. The group is split into two workshops, which run simultaneously:

- Plankton/microscopy identification workshop
- Energy workshop using dynamos, solar panels and a steam engine as hands-on props.

Also available are three 90-minute workshops, each for a maximum of 20 pupils and costing £120:

- Oil spill workshop for Key Stage 2 pupils (ages 8-11)
- Climate change workshop for Key Stage 2 pupils (ages 8-11)
- Marine litter workshop for Key Stage 1 pupils (ages 4-7).

More information:

www.darwincentre.com

Contact: Marten Lewis

(M.B.Lewis@pembrokeshire.ac.uk)

Throughout 2007

Paris Montagne, Paris, France

Science Academy

Paris Montagne runs a year-round outreach programme in all Parisian suburbs. The programme is for high-school students who are interested in sciences but not confident enough to enrol in undergraduate studies, due to social and cultural hindrances. The organisation offers students personal tutoring and the possibility to discover the world of research by meeting researchers in various fields and by carrying out their own research in real laboratories during their holidays (100 in April 2007, and many more expected in August and October 2007). The most dedicated participants in the programme are offered the chance to take part in a summer camp during the Paris Montagne science festival (21-25 July 2007).

More information:

www.scienceacademie.org

Throughout 2007

INTECH, Winchester UK

Free teacher previews

Teachers are invited to visit INTECH, the hands-on interactive science and discovery centre, free of charge or to attend a teacher preview session to discover what is available for school visits and workshops.

More information: www.intech-uk.com

Contact: Angela Ryde-Weller

(AngelaRydeWeller@intech-uk.com)

If you organise events or competitions that would be of interest to European science teachers and you would like to see them mentioned in *Science in School*, please email details, including date, location, title, abstract, price, website and contact email address, to editor@scienceinschool.org

