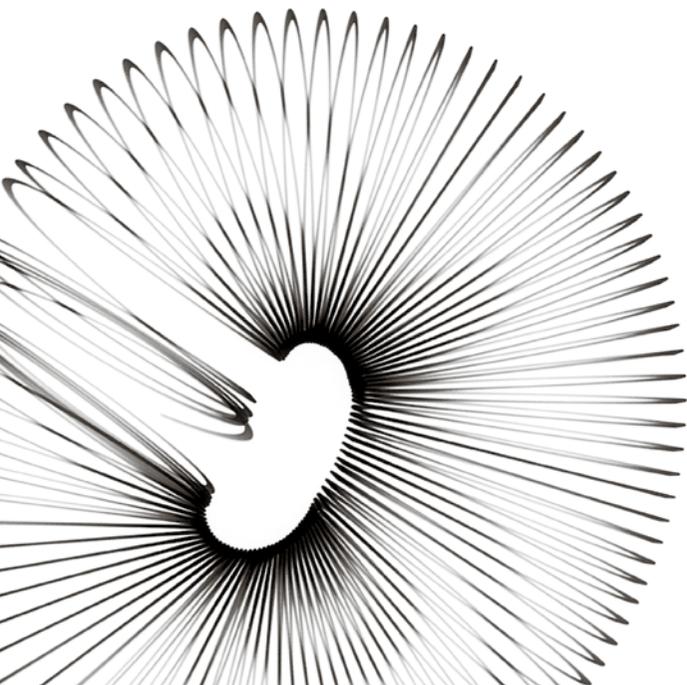


**Science**  
LEARNING CENTRES



# Secondary/Post-16 Science Support Autumn 2012



# Welcome to the Science Learning Centre East Midlands

## Secondary/Post-16 Support Autumn Term 2012

Welcome to the Autumn Term Secondary update which outlines our programme offering the very best continuing professional development (CPD) across the region.

This update outlines our provision for the forthcoming autumn and early spring terms but we also offer a broad range of services for individual staff, schools, departments or technician groups. This includes CPD needs analysis, subject specific audits, general science education advice and mentoring as well as designing tailor made bespoke CPD sessions of any length.

For an increasing number of our secondary schools and colleges we regularly provide departmental bespoke CPD as well as tailoring suites of twilight sessions aimed at specific needs. Whatever colleagues' needs are for science education we can offer advice and support so please contact us to find out more.

We also have a range of techniques aimed at measuring the **impact** of CPD and this is an important aspect of our work.

A local secondary teacher who recently attended one of our face to face sessions commented:

**"The session pushed my own understanding which was exactly what I wanted. I now want to push the understanding of my students too – that's pretty exciting."**

Please call us directly to book a place or to find out more about our activities on **0116 252 3771**.

**Our team look forward to welcoming participants to our sessions very soon.**



*Sue Bull*

**Sue Bull**  
Director



*Claire Simpson*

**Claire Simpson**  
Deputy Director

## Secondary Support Services

Our support for secondary schools and colleges includes a bespoke or tailor made service where, working alongside schools or colleges, we can develop CPD specially designed for staff. The CPD can be of any length from a few hours to a whole day and be completely tailor made to meet needs. We will develop ideas and identify and liaise with a high quality trainer who will then deliver what is needed, when needed!

However, we can deliver much more than CPD and we have a range of support options and packages available to suit all needs and budgets.

For example:

- Does the school/college need to work on providing exciting contexts & strategies for students?
- Does the school/college need to improve student's practical and technological skills?
- Does the school/college need help to differentiate and personalise the science curriculum?
- Does the school/college require strategies for assessment and management of learning in order to raise attainment in science?

If this is the case then we are best placed to help!

Our design and deliver 'packages' of support can incorporate face-to-face sessions as well as ongoing mentoring and coaching throughout the year. Our offer is much wider than the CPD sessions found in this leaflet so please contact us to find out more.



## Face to Face Support

### CPD out of School or College

One of the benefits of coming out of school or college to attend CPD is the opportunity to network with other colleagues from across the region, share good ideas and be able to spend time fully focused on an aspect of work.

### CPD Support in School or College

Much of the CPD in our programme can be run in school or college for staff. This can be a very cost effective way of ensuring they have access to the very best science CPD costing from £85 per person! Support within school or college can be beneficial by providing opportunities for groups of staff to work collaboratively.

We are also in a position to organise CPD for both clusters and families of schools as well as technician groups. Bringing staff together facilitates sharing of ideas and good practice.

## East Midlands: Find out more

**Please contact us to find out more about our activities, request literature and more information, to enquire about bespoke opportunities or to make a booking.**

Science Learning Centre East Midlands  
University of Leicester  
School of Education  
21 University Road  
Leicester LE1 7RF

**Tel:** 0116 252 3771

**Fax:** 0116 252 5772

**Email:** [slcem@le.ac.uk](mailto:slcem@le.ac.uk)

## RSC Developing Expertise in Practical Chemistry For newly and recently qualified chemistry teachers

EMC12359

[www.slcs.ac.uk/go/net/12359](http://www.slcs.ac.uk/go/net/12359)

This session is specifically aimed at supporting newly and recently qualified chemistry teachers of 11-18 year olds. Participants will have the opportunity to improve their confidence and expertise in using a variety of practical activities to enhance teaching and learning in chemistry. Participants will also try out and evaluate a variety of practical activities and demonstrations. Relevant health and safety aspects will be introduced and then integrated throughout the day. All attendees will receive £50 worth of RSC resources as a result of attending the day.

**Session fee:** £50

**Date:** 17 Oct 2012

**Venue:** University of Leicester

## Triple Science: Physics

£150\* (see below) 

EMC12486

[www.slcs.ac.uk/go/net/12486](http://www.slcs.ac.uk/go/net/12486)

This session is intended for teachers that have experience of teaching physics at KS4 and would benefit from support in effective teaching and learning of the triple science extension modules. A range of modules from across the awarding bodies will be considered, and participants should be familiar with the content of their extension modules before taking part.

**Session fee:** £0 or £160\* (see below)

**Date:** 17 Oct 2012

**Venue:** University of Nottingham

**Date:** 17 Jan 2013

**Venue:** University of Leicester

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*



## NQT Twilight 'Conference'

£150 

EMC12040

[www.slcs.ac.uk/go/net/12040](http://www.slcs.ac.uk/go/net/12040)

This series of twilight sessions, held in either Nottingham or Leicester, provides an opportunity for NQTs from across the region to share their experiences of the first few weeks of their teaching career and further develop key aspects of science teaching. Topics covered will be drawn from a range of subject knowledge and pedagogical ideas including strategies to enhance teaching and learning, developing ideas in How Science Works, assessment and effective practical work and is likely to include some or all of the following:

- Developing literacy
- Assessment for Learning
- Interactive Teaching
- Health and Safety
- Questioning skills
- Using models in science
- Behaviour for Learning

There will also be the opportunity to provide ongoing support and development to NQTs and colleagues in their first few years of their careers. There will be three twilight sessions and each will include a training element tailored to participants' interests and needs.

**Session fee:** £160 (includes all sessions)

**Dates:** 07 Nov 2012, 21 Jan 2013 and 04 Mar 2013 (2.30pm-5pm)

**Venue:** University of Nottingham

**Dates:** 22 Nov 2012, 06 Feb 2013 and 19 Mar 2013 (4pm-6.30pm)

**Venue:** University of Leicester

## Active Approaches in A Level Chemistry

£150/£275 

EMC12089

[www.slcs.ac.uk/go/net/12089](http://www.slcs.ac.uk/go/net/12089)

This session, for teachers and lecturers reasonably confident in their subject knowledge, will provide opportunities to explore the acknowledged benefits of active, collaborative and 'minds-on' approaches to learning at advanced level. A range of strategies, tools and resources will be explored and there will be ample opportunity to work in collaboration with other participants to develop teaching and learning approaches covered during the day, with a focus on A level topics and enhancing the experience for post-16 students.

**Session fee:** £160 (or £295 with optional online element)

**Date:** 07 Nov 2012

**Venue:** University of Leicester

*(Optional 1 day online at £135 with additional £125 Impact Award is available for this session. Please advise at time of booking if you wish to opt for this.)*

## Essential Skills for New Science Leadership

£400



EMC12041

[www.slcs.ac.uk/go/net/12041](http://www.slcs.ac.uk/go/net/12041)

This three day session (2 days face-to-face and one day online) seeks to address the needs of teachers who are new to subject leadership. Day one will focus on developing a team and evaluating the new department. Day two will focus on the leadership of change and will enable participants to plan for the next steps in departmental development. During and between the sessions participants will have opportunities to share ideas with other new subject leaders using the online forum.

**Session fee:** £430

**Date:** 08 Nov 2012 and 06 Feb 2013

**Venue:** University of Leicester

## Effective Preparation for Examinations

£150



EMC12321

[www.slcs.ac.uk/go/net/12321](http://www.slcs.ac.uk/go/net/12321)

Many students struggle to pass science exams that are important for their future prospects in diverse careers. Learning how to organise and summarise a large body of information, appreciating the value of practical work, and understanding timing and exam technique, should underpin successful preparation for exams and produce the confidence and independence required when taking exams. This CPD session will support teachers in developing effective strategies for supporting students as they prepare for exams.

**Session fee:** £160

**Date:** 09 Nov 2012

**Venue:** University of Leicester

## RSC Chemistry for Non-specialists KS4

£525



EMC12063

[www.slcs.ac.uk/go/net/12063](http://www.slcs.ac.uk/go/net/12063)

These 4 day CPD sessions enable participants to explore their understanding of chemistry and develop the confidence, flair and enthusiasm to teach chemistry at KS4. Participants will develop important skills to illustrate key ideas and phenomena through practicals. It identifies topics that challenge students' conceptual understanding of chemistry, provides strategies to tackle them and examines the effectiveness and impact of practical work. Links to contexts and career opportunities are made throughout. The days will also respond to individual needs – offering a personalised learning experience.

**Session fee:** £250

**Dates:** 12 and 13 Nov 2012, 15 Jan 2013 and 22 Mar 2013

**Venue:** Repton School, Derbyshire

## Physics for Non-specialists: An Introduction

£400



EMC12085

[www.slcs.ac.uk/go/net/12085](http://www.slcs.ac.uk/go/net/12085)

This three day session (2 days face-to-face and one day online) will focus on introducing a number of key physics principles and will provide opportunities to explore and refine understanding, to develop skills and update strategies for teaching physics. Through a blend of face-to-face and online support, the subject knowledge necessary to support effective teaching will be covered, as well as the use of stimulating practical activities and demonstrations to excite and enthuse students. ICT-based resources will also be explored.

**Session fee:** £430

**Dates:** 13 and 14 Nov 2012

**Venue:** Moulton School, Northamptonshire

**Dates:** 18 and 19 Mar 2013

**Venue:** University of Leicester

## Introducing Assessment for Learning to Raise Standards in Science

£400



EMC12026

[www.slcs.ac.uk/go/net/12026](http://www.slcs.ac.uk/go/net/12026)

This three day session (2 days face-to-face and one day online) offers subject specific advice on how to interact more effectively with students. It emphasises moving from levelling student work to using assessment as a tool to enhance and promote learning (including ideas that can easily be taken away and used). Day one focuses on Assessment for Learning (AFL) techniques, enabling students to be aware of their learning and how to make progress. Day two extends these strategies and passes ownership of learning to students through peer or self assessment.

**Session fee:** £430

**Date:** 14 Nov 2012 and 27 Feb 2013

**Venue:** University of Leicester

## Masterclass for A Level Physics

£150



EMC12296

[www.slcs.ac.uk/go/net/12296](http://www.slcs.ac.uk/go/net/12296)

This one day CPD session, for post-16 teachers and lecturers confident in their subject knowledge, discusses the wider implications and applications of physics and explores tools for teaching and learning that will broaden and deepen their 'repertoire' of practical activities and teaching approaches. A significant feature is the exploration and use of electronic technologies including free modelling software, video analysis tools and apps. There is ample opportunity to try out these technologies and discuss ways in which they can be used to enhance existing practice.

**Session fee:** £160

**Date:** 16 Nov 2012

**Venue:** University of Leicester

## Enhancing Literacy Skills in Science

£150



EMC12530

[www.slcs.ac.uk/go/net/12530](http://www.slcs.ac.uk/go/net/12530)

This one day session will support participants in responding to the increased literacy demands in examinations and help to provide students with the skills to be effective, independent learners. Developing effective writers is underpinned by a range of literacy skills, including making good use of talking and reading. Participants will have the opportunity to reflect on their current practice and to consider further developments of their teaching. A range of strategies that can be easily implemented into teaching will be introduced.

**Session fee:** £160**Date:** 20 Nov 2012**Venue:** William Farr CE School, Welton**Date:** 28 Jan 2013**Venue:** University of Leicester**Date:** 05 Feb 2013**Venue:** Bilborough College, Nottingham

## Practical Work in Physics

£150



EMC12019

[www.slcs.ac.uk/go/net/12019](http://www.slcs.ac.uk/go/net/12019)

This session will enable teachers and technicians of physics to explore ideas for teaching topics across the physics curriculum and develop an understanding of how practical work can be made more relevant and effective. Hands-on opportunities will explore interesting and creative approaches to new and familiar practical techniques using a range of resources, publications and ICT applications, including those produced by the Science Enhancement Programme. To gain the maximum benefit from this day, technicians should attend with a teacher from their school.

**Session fee:** £160**Date:** 21 Nov 2012**Venue:** University of Leicester**Date:** 06 Feb 2013**Venue:** Wrenn School, Wellingborough

*Please note that the Impact Award for technicians is £100 if attending with a teacher from their school.*

## Raising Attainment in Triple Science

£150\* (see below)



EMC12485

[www.slcs.ac.uk/go/net/12485](http://www.slcs.ac.uk/go/net/12485)

During the day participants will consider some key strategies for improving student performance. This session has been specifically designed for science departments that have no or little experience in delivering triple science.

**Session fee:** £0 or £160\* (see below)

**Date:** 28 Nov 2012

**Date:** 07 Mar 2013

**Venue:** University of Leicester

**Venue:** University of Leicester

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*

## Managing Effective Practical Work in Triple Science

£150\* (see below)



EMC12490

[www.slcs.ac.uk/go/net/12490](http://www.slcs.ac.uk/go/net/12490)

This session is for teachers who are new to teaching triple science with a particular interest in developing their use of practical work, as this can be a barrier to the effective delivery of triple science. Participants will develop the confidence and ability to improve students' learning by supporting understanding of assessment, how it can be managed and where to find engaging practical activities. Participants will explore issues, reflect on the impact on their teaching and develop ways of confidently using practical work to develop learning.

**Session fee:** £0 or £160\* (see below)

**Date:** 03 Dec 2012

**Date:** 15 Mar 2013

**Venue:** University of Leicester

**Venue:** University of Leicester

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*

## Keep it Safe! Health and Safety in Practical Science for New Teachers (Formerly CLEAPSS Health & Safety – New Teachers)

EMC12102

[www.slce.ac.uk/go/em/emc12102](http://www.slce.ac.uk/go/em/emc12102)

Science teaching has a very good health and safety record. Nevertheless, science teachers must comply with health and safety legislation as there are many hazardous chemicals, living organisms, pieces of equipment and procedures in use in school laboratories. There are many pitfalls to trap the unwary, particularly newly-qualified science teachers. As well as knowing how to work safely, new teachers also have to develop the skills needed to run a successful practical lesson. What this means will be covered as well as suggestions and tips based on new CLEAPSS publications.

**Session fee:** £160

**Date:** 04 Dec 2012

**Venue:** University of Leicester

## Cognitive Acceleration in Science Education

£150



EMC12324

[www.slcs.ac.uk/go/net/12324](http://www.slcs.ac.uk/go/net/12324)

Cognitive Acceleration through Science Education (CASE) is an intervention strategy which has been shown to produce significant improvements in examination results in science and other subjects. This training, and the resources developed to support the programme, assist teachers in challenging learners to think more deeply and use enhanced thinking skills in a wider context. The CASE materials have been structured to enable trained teachers to engage and challenge their students. CASE can transform the thinking processes of both learners and teachers.

**Session fee:** £160

**Date:** 07 Dec 2012

**Venue:** Sherwood E-ACT Academy, Nottingham

## Triple Science: Biology

£150\* (see below)



EMC12488

[www.slcs.ac.uk/go/net/12488](http://www.slcs.ac.uk/go/net/12488)

This session is intended for teachers that have experience of teaching biology at KS4 and would benefit from support in effective teaching and learning of the triple science extension modules. A range of modules from across the awarding bodies will be considered, and participants should be familiar with the content of their extension modules before taking part.

**Session fee:** £0 or £160\* (see below)

**Date:** 10 Dec 2012

**Venue:** University of Leicester

**Date:** 22 Jan 2013

**Venue:** University of Nottingham

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*

## Microbes, Maths and Technology

EMC08116

[www.slcs.ac.uk/go/em/emc08116](http://www.slcs.ac.uk/go/em/emc08116)

This exciting hands-on accredited (from the Society for General Microbiology) session makes use of modern molecular biotechnology in the classroom to investigate food production and spoilage, microbial growth and DNA manipulation. Throughout the day ICT will be used to generate real-time results to allow for statistical analysis.

**Session fee:** £80 (members of SGM), £100 (non members)

**Date:** 11 Dec 2012

**Venue:** University of Leicester

## Practical Work in Chemistry

£150 

EMC12094

[www.slcs.ac.uk/go/net/12094](http://www.slcs.ac.uk/go/net/12094)

This session will enable teachers and technicians of chemistry to explore a range of ideas for teaching topics across the chemistry curriculum and develop an understanding of how practical work can be made more relevant and effective. There will be hands-on opportunities to explore interesting and creative approaches to new and familiar practical techniques using a range of resources, publications and ICT applications, including those produced by the Science Enhancement Programme. It is recommended that, in order to gain the maximum benefit from this day, technicians should attend with a teacher from their school.

**Session fee:** £160

**Date:** 11 Dec 2012

**Date:** 26 Feb 2013

**Venue:** William Farr CE School, Welton

**Venue:** University of Leicester

*Please note that the Impact Award for technicians is £100 if attending with a teacher from their school.*

## Identifying and Inspiring Your Students in Triple Science

£150\* (see below) 

EMC12489

[www.slcs.ac.uk/go/net/12489](http://www.slcs.ac.uk/go/net/12489)

This CPD session has been developed to help teachers effectively identify appropriate triple science students from KS3 data. It will also examine ways of motivating students, enriching their triple science learning, and allow teachers to investigate STEM career resources so that they can draw on these to inspire students to study science.

**Session fee:** £0 or £160\* (see below)

**Date:** 13 Dec 2012

**Date:** 04 Mar 2013

**Venue:** University of Leicester

**Venue:** University of Leicester

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*

## Teaching Assistants Training

EMC12075

[www.slcs.ac.uk/go/net/12075](http://www.slcs.ac.uk/go/net/12075)

This day provides teaching assistants with a background in popular experiments frequently encountered in the KS3 and KS4 science curriculum as well as an introduction into the role of practical work in learning science. Participants will cover key areas of science with relevant concepts and skills being explored during the day. Throughout the sessions participants are given advice and have the opportunity to ask questions about practical science and how students can be best supported in lessons.

**Session fee:** £120

**Date:** 18 Dec 2012

**Venue:** John Cleveland College, Hinckley

## Triple Science: Chemistry

£150\* (see below) 

EMC12487

[www.slcs.ac.uk/go/net/12487](http://www.slcs.ac.uk/go/net/12487)

This session is intended for teachers that have experience of teaching chemistry at KS4 and would benefit from support in effective teaching and learning of the triple science extension modules. A range of modules from across the awarding bodies will be considered, and participants should be familiar with the content of their extension modules before taking part.

**Session fee:** £0 or £160\* (see below)

**Date:** 20 Dec 2012

**Venue:** University of Leicester

**Date:** 16 Jan 2013

**Venue:** University of Leicester

*\*Please note that participants from schools supported by the Triple Science Support Programme will not be charged a session fee and are not eligible for an Impact Award. Please contact us to confirm eligibility. For other schools the session fee is £160 with an Impact Award of £150.*

## Masterclass for A Level Chemistry

£150 

EMC12297

[www.slcs.ac.uk/go/net/12297](http://www.slcs.ac.uk/go/net/12297)

This one day CPD session, for post-16 teachers and lecturers confident in their subject knowledge, discusses the wider implications and applications of contemporary chemistry and explores some tools for teaching and learning that will broaden and deepen their repertoire of practical activities and teaching approaches. A key feature is the exploration and use of electronic technologies, including in-class video production. There is ample opportunity to try out these approaches and discuss ways in which they can be used to enhance existing practice.

**Session fee:** £160

**Date:** 11 Jan 2013

**Venue:** University of Nottingham

## Mathematics in Science Teaching

£150 

EMC12299

[www.slcs.ac.uk/go/net/12299](http://www.slcs.ac.uk/go/net/12299)

This session explores the use and failure to use mathematics in science. It looks at typical weaknesses in mathematics that hinder students' ability to understand and solve scientific problems and at pedagogies that can be used to address these difficulties. Teachers who struggle with teaching mathematical aspects of science will come away with easy to apply classroom strategies. Simple examples using software for visualisation of equations and use of scientific data will be shown and some mathematical science resources for schools explored.

**Session fee:** £160

**Date:** 31 Jan 2013

**Venue:** University of Leicester

## Physics for Non-specialists: Taking it Further

£400



EMC12066

[www.slcs.ac.uk/go/net/12066](http://www.slcs.ac.uk/go/net/12066)

This three day session (2 days face-to-face and one day online) will focus on extending key physics principles and will provide opportunities to explore and refine understanding, to develop skills and update strategies for teaching physics. Through a blend of face-to-face and online support, the subject knowledge necessary to support teaching will be covered as well as the use of stimulating practical activities and demonstrations to excite and enthuse students. ICT-based resources will also be explored.

**Session fee:** £430

**Date:** 06 and 07 Feb 2013

**Venue:** George Spencer Academy, Nottingham

## Active Approaches in A Level Physics

£150/£275



EMC12090

[www.slcs.ac.uk/go/net/12090](http://www.slcs.ac.uk/go/net/12090)

This session, for teachers and lecturers reasonably confident in their subject knowledge, will provide opportunities to explore the acknowledged benefits of active, collaborative and 'minds-on' approaches to learning at advanced level. A range of strategies, tools and resources will be explored and there will be ample opportunity to work in collaboration with other participants to develop some new teaching and learning activities appropriate for A level topics and post-16 students.

**Session fee:** £160 (or £295 with optional online element)

**Date:** 27 Feb 2013

**Venue:** University of Nottingham

*(Optional 1 day online at £135 with additional £125 Impact Award is available for this session. Please advise at time of booking if you wish to opt for this.)*

## Science for Gifted and Talented Students

£150



EMC12037

[www.slcs.ac.uk/go/net/12037](http://www.slcs.ac.uk/go/net/12037)

This session raises awareness of the importance of supporting Gifted and Talented (G&T) students in science by providing opportunities to consider current practice and how this can be enhanced within normal teaching. It includes strategies for identifying G&T and techniques for enhancing teaching and learning, including higher order thinking skills. The day will provide a number of stimulating activities designed to engage, challenge and inspire. Participants will have the opportunity to share best practice and develop new ideas and activities.

**Session fee:** £160

**Date:** 28 Feb 2013

**Venue:** Bishop Grosseteste University College, Lincoln

## Practical Work in Biology

£150 

EMC12012

[www.slcs.ac.uk/go/net/12012](http://www.slcs.ac.uk/go/net/12012)

This session will enable teachers and technicians of biology to explore ideas for teaching topics across the biology curriculum and develop an understanding of how practical work can be made more relevant and effective. Hands-on opportunities will explore interesting and creative approaches to new and familiar practical techniques using a range of resources, publications and ICT applications, including those produced by the Science Enhancement Programme. To gain the maximum benefit from this day, technicians should attend with a teacher from their school.

**Session fee:** £160

**Date:** 12 Mar 2013

**Venue:** University of Leicester

*Please note that the Impact Award for technicians is £100 if attending with a teacher from their school.*

## Active Approaches in A Level Biology

£150/£275 

EMC12091

[www.slcs.ac.uk/go/net/12091](http://www.slcs.ac.uk/go/net/12091)

This session, for teachers and lecturers reasonably confident in their subject knowledge, will provide opportunities to explore the acknowledged benefits of active, collaborative and 'minds-on' approaches to learning at advanced level. A range of strategies, tools and resources will be explored and there will be ample opportunity to work in collaboration with other participants to develop some new teaching and learning activities appropriate for A level topics and post-16 students.

**Session fee:** £160 (or £295 with optional online element)

**Date:** 13 Mar 2013

**Venue:** University of Leicester

*(Optional 1 day online at £135 with additional £125 Impact Award is available for this session. Please advise at time of booking if you wish to opt for this.)*

## CLEAPSS Reduced and Micro-scale Chemistry

EMC12101

[www.slcs.ac.uk/go/em/emc12101](http://www.slcs.ac.uk/go/em/emc12101)

Practical procedures for students using conventional equipment are often time-consuming and left out of teaching, consequently lowering students expectations of secondary school science. Small-scale chemistry is quick, saves on chemicals and offers variety in presentation. The day covers indicators, precipitation, salt preparation, reaction kinetics, iron/sulfur reactions, working with toxic gases and carrying out small-scale vigorous reactions.

**Session fee:** £160

**Date:** 20 Mar 2013

**Venue:** University of Leicester

## Masterclass for A Level Biology

£150



EMC12298

[www.slcs.ac.uk/go/net/12298](http://www.slcs.ac.uk/go/net/12298)

This one day CPD session, for post-16 teachers and lecturers confident in their subject knowledge, will discuss the wider implications and applications of biology and explore some tools for teaching and learning that will broaden and deepen their 'repertoire' of practical activities and teaching approaches. A feature of the day is the exploration and use of electronic technologies. There will be ample opportunity to try out these approaches and discuss ways in which they can be used to enhance existing practice.

**Session fee:** £160

**Date:** 21 Mar 2013

**Venue:** University of Leicester

## Science Without Walls

£150



EMC12337

[www.slcs.ac.uk/go/net/12337](http://www.slcs.ac.uk/go/net/12337)

An exciting opportunity to access contemporary science continuing professional development from participants' schools. This series of six one-hour video conferences with leading scientists will update and inspire participants' science teaching. Each conference will include a presentation from a research scientist, discussion between teachers and the scientists and educational input from the Science Learning Centre. By using video conferencing participants will be able to ask questions, discuss and share their teaching experiences on the selected topic.

**Session fee:** £160 (for all six video conferences)

**Date:** Contact us for more details

**Venue:** Via video conference

## STEM Study Visits

### Expedition Iceland 2013

£300



EMC12295

[www.slcs.ac.uk/go/net/12295](http://www.slcs.ac.uk/go/net/12295)

Study visits to sites of STEM interest are organised to complement contemporary science sessions. Each event aims to enhance subject knowledge and understanding about applications of science and involve working with experts in the field. Study visits are also useful for checking out the potential of a site for a possible school or college visit and becoming familiar with resources that can be used in school or college.

We are currently planning a new 'Iceland Expedition' further details of which will be available once confirmed. It is likely the expedition will comprise an introductory twilight session, Friday to Sunday training and planning weekend, project confirmation twilight session and 7 days in Iceland during the summer half term 2013. If interested and to be kept informed, please contact us on 0116 252 3771.

## Consultancy Support for Triple Science

This suite of sessions gives schools supported by the Triple Science Support Programme the opportunity to request additional support with an adviser beyond their allocated direct support.

A school can request consultancy on any relevant area including those from the list below. Support materials for these areas have been developed specifically as part of the programme.

### Curriculum Models for Triple Science (Consultancy)

EMC12491

[www.slcs.ac.uk/go/net/12491](http://www.slcs.ac.uk/go/net/12491)

### Making the Case for Triple Science in School (Consultancy)

EMC12492

[www.slcs.ac.uk/go/net/12492](http://www.slcs.ac.uk/go/net/12492)

### Managing the Process of Developing Triple Science (Consultancy)

EMC12493

[www.slcs.ac.uk/go/net/12493](http://www.slcs.ac.uk/go/net/12493)

### Coaching and Mentoring Teachers for Triple Science (Consultancy)

EMC12494

[www.slcs.ac.uk/go/net/12494](http://www.slcs.ac.uk/go/net/12494)

### Teaching Specific Aspects of Individual Awarding Body Specifications (Consultancy)

EMC12495

[www.slcs.ac.uk/go/net/12495](http://www.slcs.ac.uk/go/net/12495)

**Session fee:** £0 (for supported schools)

**Date:** By arrangement

**Venue:** In school



## National Science Learning Centre

For participants interested in a residential, intensive CPD experience, the National Science Learning Science Centre, located in York, also offers an extensive programme of professional development. The sessions cover a wide variety of topics and are led by experienced practitioners who have expertise in science teaching, leadership and supporting change in classroom practice.

Sessions are held at the National Science Learning Centre which is a state-of-the-art facility situated on the campus of the University of York. The Centre features the highest specification teaching laboratories, teaching rooms, auditorium and the National STEM Centre, which houses the UK's largest collection of STEM (science, technology, engineering and mathematics) teaching and learning resources.

To find out more about the National Science Learning Centre and the sessions which are run at the Centre please visit [www.slcs.ac.uk/go/national](http://www.slcs.ac.uk/go/national)

To find out more about the National STEM Centre including the online eLibrary of over 4,000 free resources please visit: [www.nationalstemcentre.org.uk](http://www.nationalstemcentre.org.uk)

## ENTHUSE Award – Making Professional Development Affordable



Teachers, teaching assistants and technicians from state funded schools, academies or colleges in the UK may be eligible to receive an ENTHUSE Award to contribute towards costs of participation on sessions at the National Science Learning Centre.

For more information about the ENTHUSE Award and how to apply please visit [www.slcs.ac.uk/go/nat/enthuseaward](http://www.slcs.ac.uk/go/nat/enthuseaward)

## Impact Awards IMPACT AWARD

We are delighted to offer Impact Award bursaries, on behalf of the Department for Education, for many of our sessions – look out for the Impact Award icon in this brochure.

Anyone involved in science education from a state funded school, academy or college may be eligible for an Impact Award to contribute towards the cost of attending sessions at any of the regional Science Learning Centres. Schools, academies and colleges involved in bespoke CPD at a Centre or CPD for a cluster of schools may also be eligible.

For further information about Impact Awards and eligibility criteria please contact us or visit: [www.slcs.ac.uk/go/net/impactawards](http://www.slcs.ac.uk/go/net/impactawards)

## The national network of Science Learning Centres: Go Anywhere!

In addition to the Science Learning Centre East Midlands, there are eight other regional Science Learning Centres located across England and the National Science Learning Centre located in York.

The Centres provide an exciting, innovative and comprehensive programme of high quality continuing professional development that covers primary, secondary and post-16.

The extensive programme of support includes coverage of subject knowledge, scientific enquiry, effective and creative use of practical work, leadership skills, key elements of relevant science curriculum and for the delivery of triple science. Science Learning Centres can also work to develop CPD which meets the needs of individual schools or clusters of schools, including delivering sessions at a venue to suit you.

There is nothing to stop you attending a Centre outside your area if it is more convenient to visit one of the other Centres.

- **North West**
- **North East**
- **Yorkshire & the Humber**
- **West Midlands**
- **East of England**
- **South West**
- **South East**
- **London**
- **National**



## How to Book: Secondary Sessions

Please fill out the booking form below clearly and either send it or fax it to us. Please note that places are limited and are allocated on a first come first served basis.

Session Title: .....

Venue: .....

Date: .....

## Participant Details

Title: .....

First Name: .....

Surname: .....

Email: .....

School Name: .....

School Address: .....

.....

Postcode: .....

School Tel: .....

I do not wish to receive emails/written communication (delete as appropriate) regarding other sessions



### Find us on Twitter and Facebook

The national network of Science Learning Centres is a joint initiative by the Department for Education and the Wellcome Trust.

The Science Learning Centre East Midlands is run by the University of Leicester with a number of satellite centres across the region.

**Science**  
LEARNING CENTRES

