Friday Booked Courses

BC25 Forensic Science: Forensic Ecology
Kimberlee Moran, Forensic Outreach
0930-1030 £15
Forensic Ecology and Environmental Profiling are new additions to the forensic family and provide excellent exercises for the Applied Science GCSE. Learn more about these techniques, take part in a practical exercise, and discuss lesson plans ideas.
Discipline: Teaching & Learning
Target audience: 14-16

BC26 Introducing Mind Mapping®: A Key to Success
Dr Gareth Morris, Gareth Morris Associates
0930-1030 £20
An exciting and colourful workshop in which we explore the way in which your brain really works and how you can use it to your best advantage! Learn how to unlock your true creative and learning potential and make the most of your mind. You will see how Mind Friendly Mapping Techniques will help to improve creativity, thinking skills, enhance memory, and generally improve learning ability for everyone - and make learning fun too!
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16, Post 16, Advisors

BC27 IOP: SPT14-16 Prevision (repeat)
Ian Lawrence, Institute of Physics
0930-1030 £free
The SPT materials are being extended for teachers of the 14-16 age groups. Aimed at those who will be supporting the development of such teachers, the workshop will introduce you to ways of working with these materials with teachers. This is one of the three strands that make up the core of SPT14-16, exemplifying the new approaches to showing how physics goes about its business, and how these resources will be made available and the advantages of embedding them in an on-line environment.
Discipline: Teaching & Learning, Curriculum Development, Research
Target audience: 14-16, Advisors, Physics

BC28 IOP: Teaching Physics Using Youtube and Hollywood
Mike Melling, Institute of Physics Teacher Network
0930-1030 £free
Youtube is a fantastic resource to show clips to illustrate specific physics principles and also to inspire by showing physicists at work. Hollywood has also provided parts of films that are based on solid physics (and lots which are not). This course will show the best that can be used for developing understanding in physics.
Discipline: Teaching & Learning
Target: 11-14, 14-16, Post 16

BC29 IOP: Construction of Compressed Air-Powered Rocket Launcher for Primary Teachers
Terry Horsman, Institute of Physics
0930-1130 £free
If you haven't yet got your own (free!) IoP Rocket Launcher, come along and be guided through the construction (no previous experience of pipe-work necessary: honestly!) – you'll take it away, having fired your very own cardboard rocket at least 50 metres (range) and/or 20 metres altitude. This kit provides massive fun, and is applicable to all levels of the Curriculum, from KS1 ('Pushes & Pulls') to KS5 (A-level project work): you're limited by your own imagination and creativity only!
Discipline: Teaching & Learning
Target audience: 5-7, 7-11

BC30 My Job Is Murder! Forensic Activities for Schools
Philip Morton, SciChem & Staffordshire University, Professor John Cassella, Dr Roger Summers, Staffordshire University, Sarah Bullivant, SciChem
0930-1230 £30
New to forensics, want to spice up your biology lessons, or just looking for science week or open day inspiration then this is the workshop for you!! There's been a murder, analyse the evidence and solve the case! Confronted with a crime scene to investigate you will be guided through key forensic techniques which can be replicated in the classroom by Staffordshire University Lecturers and experts in the field, given hands on experience with; hair and fibre analysis, fingerprints, footwear, blood and more!!
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16, Post 16, Technician, Advisors

BC31 And If It Doesn't Work, It's Physics
Geoff Auty, School Science Review, Chris Embrey, Lucton School, Leominster
1100-1300 £5
Practical work in physics is often regarded as difficult. Should we avoid demonstrations or class practicals for fear of failure? This session will show more than two dozen effective practical items from various areas of physics. Many have been described in the ASE's School Science Review (SSR). We promise to include items which are often regarded as difficult. This follows similar sessions at recent ASE conferences but with many different items.
Discipline: Teaching & Learning
Target audience: 11-14, 14-16, Post 16, ITE, Technician, Advisors

BC32 Crime Scene Science Workshop
Elena Setterfield, CSI Educators (International)
1100-1300 £15
I will teach you hands-on, successfully school used practical tasks that are inexpensive but give maximum learning of forensic science techniques. Including blood spattering and analysis; toolmarks and blood swipes; analysing fingerprints using magnetic powder technique; using superglue to uncover latent prints; analysing and collecting hairs and fibres; casting tyre, shoeprints, teethmarks using plaster of paris. Trace evidence from pocket searches, shoe scraping and iron flame tests. Crime scene preparation, recording, observing and packaging evidence. Includes photocopyable booklet. Excellent value course.
Discipline: Teaching & Learning
Target audience: 14-16, Post 16

ASE/BERA Research Conference

Following on from the success of the last two years' conferences the ASE Research Committee and the Science Education Special Interest Group of The British Educational Research Association have teamed up again to arrange a two day conference on Friday 8 and Saturday 9 January considering science education research carried out by members.
We have a rich mix of papers which aim to inform delegates on specific issues and to engage in debate about the classroom/ research interface. The sessions, each of which last half an hour, tackle primary and secondary science education research questions.
In this part of our Annual Conference, the presentations were peer-reviewed for quality in research terms and we again intend to produce a proceedings after the Conference. Do come for the whole day, or for those parts that interest you. It is easy to dip in and out as you wish.

John Oversby & Neil Herrington, ASE Research Committee

BC32 Crime Scene Science Workshop

Friday 1100-1300

Friday 8 January Booked Courses continued

BC33 How to Make Personalised Learning Manageable in Your Teaching
Martin Reece, Emma Goodwin, Richard Barber, Elise Hamilton, LASI, Northamptonshire County Council
1100-1300 £25
Personalised learning is about providing the best learning experiences for every individual. We will consider what PL means in relation to the whole school and beyond and then focus on the role of the class teacher within effective PL. We will consider a range of techniques to make PL manageable in your lessons. We will cut through the jargon and get to the heart of planning effective lessons to meet the needs of each and every one of your students.
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16

BC34 Teaching: Teaching Models to Teachers
Jonathan Scott, Severn Vale Sch/Gloucs Triple Sci. Network
1100-1300 £25
This workshop will give you all the skills necessary to deliver a 1 hour CPD session on teaching models to a group of teachers. You will learn an effective way to introduce alternative teaching models for science lessons and be provided with interactive resources to make each model explicit. Delegates will receive a booklet and CD ROM containing all necessary resources to deliver this…except the toast.
Discipline: Teaching & Learning
Target audience: 11-14, 14-16, Advisors

BC35 Making the Most of Creative Talent
Dr Gareth Morris, Gareth Morris Associates
1130-1230 £20
We are all naturally creative, but as we develop and learn in life many of us lose our natural creative flair. What is it that made Leonardo da Vinci such a genius? And why was Albert Einstein declared the genius of the 20th century? In this course we explore some of the mental blocks that we develop which prevent our natural creative genius from shining. With simple approaches we can regain our natural creative ability starting with this course!
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16, Post 16, Advisors

BC36 Science on a Shoestring!
John Evans, Janine Carter, Lynne Pebworth, Sue Cooper, Oxfordshire County Council
1130-1230 £25
Take a collection of household bits and pieces and use them to teach exciting and innovative science. This workshop develops the skills of problem solving and creativity. We will explore open-ended activities that can be used to develop personal learning skills inherent in the new science curriculum. Inspire your students of any age!! Participants will receive a free copy of our publication Challenging Tomorrow's Scientists.
Discipline: Teaching & Learning, Curriculum Development
Target audience: 7-11

BC37 IOP: "What Happens Next? "Experiments for All (Primary)
David Featonby, Institute of Physics
1130-1300 £free
A selection of physics experiments suitable for primary schools, which can be used with all ages to enhance learning and thinking and discussion skills. Experiments will be presented, then "paused" and students asked to predict the outcome. Participants will have access to a list of experiments, and be able to experience the puzzlement of "what happens next?" themselves. Different strategies for presenting these experiments will be suggested. An Institute of Physics Teacher Network Workshop.
Discipline: Teaching & Learning
Target audience: 5-7, 7-11

BC38 TTS Workshop: Alien Adventures: Science, Technology and Fun
Hellen Ward, Canterbury Christ Church University, Keith Remnant, Putting Learning First, Richard Wildgoose, TTS Group.
1400-1500 £20
In this session you will learn how to make bubble bath, as well as take part in a number of challenges taken from the context of aliens on earth. An Alien Adventure CD with teacher notes, and "Talking Head" will be provided for the participants to use in their own school. The link is made between science and technological understanding with fun activities that allow learners to see a real reason for learning science, in a challenging context.
Discipline: Teaching & Learning
Target audience: 5-7, 7-11, Advisors

BC39 Designing Memorable Lessons
Dr Gareth Morris, Gareth Morris Associates
1400-1500 £20
How many of us wish that we had a better memory? Frequently the reason that we do not remember information is because of the way in which it is presented. Through better design and structure of lessons we can improve the ability to recall information dramatically. In this session we shall explore memory rhythms and look at how to design lessons for effective teaching, as well as illustrating techniques to enable scientific information to be remembered easily.
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16, Post 16, Advisors

BC40 Science Museum Learning: Supporting Inspirational Primary Classroom Science
Libby Burkeman, Science Museum, Maria Hogan, Science Museum/Science Learning Centre London, Sam Spicer, Science Museum
1400-1500 £10
A taster of the Science Museum's inspirational hands-on resources developed to support classroom teaching and clubs. Tried and tested with teachers around the country, this session will offer a chance to explore some of our free, curriculum-linked science and STEM activities for yourself.
Discipline: Teaching & Learning
Target audience: 0-4, 5-7, 7-11

BC41 Tomorrow's Leaders Today: The STEM Leadership Qualification
Chris Williams, Centre for Lynne Bianchi, Centre for Sci Edu, Sheffield Hallam University
1400-1500 £15
The STEM Leadership Qualification (SLQ), developed by the Centre for Science Education (Sheffield Hallam University) in collaboration with Edexcel, sets out to develop leadership skills and capabilities through contexts in STEM. With six units to complete over 130 guided learning hours, youngsters from 11 years can embark on their journey to gain a BTEC certificate at either Level 1 or Level 2. Delegates will receive an introduction to the qualification and be able to take away with them a CD with details of how to get started.
Discipline: Teaching & Learning, Curriculum Development
Target audience: 11-14, 14-16

BC42 Electronics for Beginners
Rik Whittaker, Dr David Ward, The STEM Centre
1400-1600 £25
This is a 'hands-on' session which uses simple electronic components to get participants started. The approach allows participants to ask 'simple' questions and get 'working' answers. Participants take away a pack of components to continue their learning after the conference.
Discipline: Curriculum Development
Target audience: 11-14, 14-16, Post 16, Technician

BC43 Study Skills to Boost Performance
Dr Gareth Morris, Gareth Morris Associates
1600-1700 £20
Many able pupils fail to realise their full potential in examination situations, because they are unaware of how they should approach them. This workshop will show how to integrate learning skills into a study methodology and improve performance resulting in higher grades. Participants will see how to help pupils with Mind Mapping® and other techniques that may be used productively to enhance revision and learning, and lead to improved performance. (Participants should have some knowledge of Mind Mapping®).
Discipline: Teaching & Learning
Target audience: 7-11, 11-14, 14-16, Post 16, Advisors

BC39: Designing Memorable Lessons

Friday 1400-1500

DID YOU KNOW? The average human brain weighs only three pounds!

Friday Sessions by at-a-glance category

1045 Special Event

ASE AGM 2010

1100 Special Event

Primary Science Committee Session (Guest Speaker)

1400 Special Event

ASE Presidential Address (Sir Alan Jones)

5-7

0930 Talk
Ideas for Science Clubs: Primary (Ann Todd, The STEM Centre) Share your ideas with others

1400 Workshop
Exploring How Drama Can Support Science Learning at KS1 (Debra McGregor, University of Wolverhampton) This workshop will show how different kinds of drama helped KS1 children learn science

5-11

0930 Talk
Maintaining the Identity of Science in a Thematic Primary Curriculum (Leigh Hoath, University Centre Bradford College) Maintaining science's identity in a thematic curriculum

0930 Workshop
Primary Science: What Does the Future Hold? (John Stringer, Philip Harris) Primary Science – what does the future hold?

1500 Workshop
Practical, Fun and Meaningful Science for Young Children (Jane Johnston, Bishop Grosseteste University College Lincoln) Practical, Fun and Meaningful Science

1600 Workshop
Creative Science Enquiry (Deborah Herridge, Science Learning Centre North East) Encourage independent thinking in science

7-11

1130 Talk
Marvellous Materials: Particularly Interesting (Richard Ager, PrimaryViewPoint Training) Fresh and creative ideas for teaching primary "Materials" topics.

1130 Workshop
Ready to Use Investigations for Learning Outdoors (Lynette Merrick, Gatekeeper Educational Ltd.) Curriculum-linked Projects for investigations in the school grounds

1130 Workshop
TTS Workshop: Wear Your Science (Steve Marshall, London Borough of Barnet) Create garments to enhance science teaching

1600 Talk
Science Knowledge: Supporting KS2 (Dr Susan Burr, Publications Committee) Supporting KS2 teachers and teaching assistants

11-14

0930 Talk
Developing a New KS3 Schemes of Learning (Barnet and Enfield) º(Jiffty Chug, Barnet LA) How we did it!

1600 Talk
Ideas for Science Clubs: Secondary (Dr David Ward, The STEM Centre) Share your idea/activities with ours

1500 Practical, Fun and Meaningful Science for Young Children

11-19

1130 Workshop
SATIS Revisited and SATIS Updated: How Science Really Works (Cally Oldershaw, ASE) SATIS Revisited and SATIS Updated free website resources

14-16

0930 Talk
OCR's KS4 Qualifications for Start of Teaching September 2011 (repeat) (John Noel, OCR) Learn about the choices available

1130 Talk
Environmental and Land-based Science GCSE Redevelopment for Teaching in 2011 (Richard Bowles, OCR) Learn about progress being made

1130 Talk
Fun in Physics for Low Ability Pupils (Alex Holmes, Davison High School for Girls) Physics practicals to motivate low ability pupils

1400 Workshop
The SEPnet GCSE Physics and Chemistry Project (Clare Harvey, SEPnet) Highlight activities from the GCSE roadshow

1400 Talk
Twenty First Century Science GCSE Redevelopment, for Teaching in 2011 (repeated Sat 1130) (Stephen Diston, OCR) Learn about progress being made

1600 Talk
Developing Thinking Capability at KS4 Through Reflective Science (Debra McGregor, University of Wolverhampton) Illustration of how the Reflective Science lesson materials are designed

1600 Talk
Entry Level Science Redevelopment for Teaching in 2011 (Nikki Edwards, OCR) Learn about progress being made

Post 16

1130 Workshop
Ecology Experiments for Interactive Whiteboards, Laptops and Computer Labs (Michael O'Brien, Newbyte Educational Software) Practical ways to teach ecology

1215 Talk
Biology in the Real World: Plant Science and Global Food Supplies (Prof David Baulcombe, University of Cambridge) Plant science and global food supplies

1400 Talk
BIOZONE's New 2010 A-Level Biology Workbooks Including OCR & AQA (repeat) (Richard Allen, Biozone Learning Media (UK) Ltd) BIOZONE's New AS/A2 Biology Workbooks/Presentation Media

1600 Workshop
Chemistry Experiments for Interactive Whiteboards, Laptops and Computer Labs (Michael O'Brien, Newbyte Educational Software) Practical ways to teach chemistry simulations

Advisors

0930 Talk
NAIGS Day: Working Together for Better Science (Ian Richardson HMI, Ofsted) Collaborating with HMI on making things better

1130 Talk
NAIGS Day: The Place of Science in the New Primary Curriculum (Stephen Horsley, Wellbourne CE Primary School, Lincolnshire) The implications of the Primary Curriculum Review of Science and what it means for schools

1400 Talk
NAIGS Day: The Diploma- Progress To Date (Guest Speaker)

Assessment

1130 Talk
An Update on AQA's GCSE Science (repeat) (Nigel English, AQA) GCSE examination update and future plans

1400 Talk
APP and Assessment: How Do You Make it Work in the Classroom? (Kath Twin, 11-19 committee) Using the APP in the classroom

1400 Workshop
APP Through Science Experiments: Introducing the Archimedes Project (Birendra Singh, Barking & Dagenham LA) APP through practical activities

1400 Workshop
APP Update (repeat) (Ed Walsh, National Strategies) Making the best use of APP

1400 Talk
Science Assessment in a Second Language: Perspectives from the SPINE Project in Zanzibar (repeat) (Sibel Erduran, University of Bristol) Assessment in second language in Zanzibar

1600 Drop-in
Edexcel: GCSE 360: Getting Good Results from Internal Assessment Activities (repeat) (Richard Shewry) GCSE 360 Getting good results from internal assessment activities

1600 Talk
Learn More! Cambridge Pre-U Chemistry (Guest Speaker, University of Cambridge International Examinations) Cambridge Pre-U, an alternative to A Level

Biology

1400 Workshop
Bio-Rad Genes in a Bottle™ Kit (Essy Levy, Bio-Rad Laboratories) How do you fit a person in a bottle?

Chemistry

0930 Talk
How Chemistry Works (Anthony Hardwicke, Royal Society of Chemistry) Chemistry Resources for How Science Works

0930 Talk
To Improve Awareness of 'CITIES' Web-based In-service Material (Chemistry) (Dr Ray Wallace, Nottingham Trent University) Web-based in-service training (chemistry)

1130 Workshop
New RSC Resources for Teaching Physical Chemistry (Emma Woodley, Royal Society of Chemistry) Modern contexts for teaching physical chemistry at A Level

1400 Workshop
New RSC Resources for Teaching Organic Chemistry (Emma Woodley, Royal Society of Chemistry) Includes synthetic pathways, 3D visualisations, physical and spectroscopic data

Curriculum De

0930 Talk
Biology in the Real World: Design for Life Symposium - Beating Superbugs by Understanding Gene Transfer (Kim Hardie, Nottingham Trent University) Is it all doom and gloom, or can we protect ourselves from Superbugs?

0930 Workshop
Border Crossings: Cognitively Challenging Science Activities That Bridge Between the Outdoors, Maths and Formative Assessment (Melissa Glackin, King's College London) Encouraging learning outside the classroom

0930 Talk
Teaching About the Science and Religion Debate in Schools (Martin Rogers, Science and Religion in Schools Project) Science and religion debate in schools

1100 Workshop
How Science Works Masterclass (Ed Walsh, National Strategies) Exploring the role of HSW

1100 Workshop
Using Curios and Toys to Develop Science Ideas (Pat O'Brien, Independent Consultant) Using Curios and Toys to Develop Science Ideas

1130 Talk
Biology in the Real World: Conservation in Action! Collecting, Identifying, Researching our Vital Plant Resource (Dr Nigel Taylor, Royal Botanic Gardens, Kew) The everyday needs that plants provide us with

1400 Workshop
STEM Subject Choice and Careers: Enthusing Students, Equipping Professionals (repeated Sat 1130) (Pat Morton, Centre for Sci Edu, Sheffield Hallam University) STEM Careers in the Classroom

1400 Talk
Biology in the Real World: Design for Life Symposium - Stem Cells in Medicine - The Future? (Dr Sara Rankin, Imperial College London) Stem cells; medicines future hope?

1400 Drop-in
Edexcel: GCE and GCSE Psychology: Advice from Christine Brain, Chief Examiner - A Question and Answer Session with the Examiner and Advisors (Christine Brain) Advice from Christine Brain, Chief Examiner

1400 Drop-in
Edexcel: GCE Chemistry : Getting Good Results for Units 3 and 6 (repeat) (Geoff Wright,) GCE Chemistry : Getting good results for Units 3 and 6.

1400 Drop-in
Edexcel: GCSE Astronomy: How to Run GCSE Astronomy at Your Centre (Sarah Harrison) GCSE Astronomy: How to run GCSE Astronomy at your centre

Friday 8 January

1400 Workshop
Magic Mirrors for Key Stage 1 (Ed van den Berg, AMSTEL Institute, University of Amsterdam) Eight lessons on mirrors for KS1

1445 Talk
Biology in the Real World: Design for Life Symposium - Making New Genes - The Role of Hormones in Reproduction (Dr Tony Michael, St George's, University of London) The role of hormones in reproduction

1530 Talk
Biology in the Real World: Design for Life Symposium - What's In An 'Ome? (Dr John Haselden, GSK) The future of medicine: genomics and other 'omics'

1600 Drop-in
Edexcel: GCE Biology: Getting Good Results for Units 3 and 6 (repeat) (John Dunkerton) GCE Biology: Getting good results for Units 3 and 6

1600 Drop-in
Edexcel: GCE Physics : Getting Good Results for Units 3 and 6 (repeat) (Richard Laird) GCE Physics: Getting good results for Units 3 and 6

1600 Talk
Learnings from the London Engineering Project (Steve Smyth, STEMNET) Ideas for science and technology teaching

Enviro/Earth

0930 Workshop
Earth: Darwin the Geologist (Peter Kennet) Practical activities highlighting Darwin's geological experiences

1130 Special Event

Earth ESTA/ESEU Keynote: Climate Change in Context: Should we be Concerned? (Prof. Bob Spicer, Centre for Earth, Planetary, Space) Climate change, past, present and future

ICT & Techno

1130 Talk
Using Wikis and Blogs to Support Science Teaching (Danny Nicholson, Think Bank Ltd) Creating and using blogs and wikis

International

1130 Talk
Science Teachers: From Local Knowledge to European Policy via S-TEAM (Peter Gray, Norwegian University of Science & Technology) European Union policy on science education

Leadership & Management

0930 Talk
How do you Embed APP into Departmental Practice? (Alastair Gittner, 11-19 committee) Developing assessment and reporting with APP materials

1600 Workshop
CSciTeach Workshop for Interested Applicants (repeated Sat 1530) (Kathryn Thomson, ASE HQ) How to apply for and maintain CSciTeach status

1600 Talk
Line Management of Science in Schools: The Missing Link? (Steve Jones, Secondary National Strategy) Practical advice and guidance on how to secure the support of your senior leadership team

Physics

0930 Talk
Fun and Informative Experiments in Physics (Keith Gibbs, Schoolphysics) Fun and informative Physics experiments

1400 Talk
Animations in School Physics (Keith Gibbs, Schoolphysics)
Fun and informative Physics experiments

1400 Special Event

IOP: The Best of Physics Education + (Gary Williams, Institute of Physics) Your chance to see some of the great ideas that 2009 has thrown up that have appeared in the pages of Physics Education

Research

0930 Frontier Science

Carbon Capture and Storage: Finding Allies in Our Fight Against Global Warming (Prof. Mercedes Maroto-Valer, Faculty of Engineering) Technologies to fight global warming

0930 Frontier Science

What Can Visual Signals in Insects Tell Us About Evolution? (Dr Tom Reader, School of Biology) A research talk about evolutionary ecology

0930 Special Event

STFC Lecture: The Search for Extra-terrestrial Life (Guest Speaker) Extra-solar planets and searching for life

1015 Talk
Biology in the Real World: Design for Life Symposium Snog, Marry, Avoid? Mate Choice and Parental Care in the Animal Kingdom
(Dr Iain Barber, Association for the Study of Animal Behaviour) Lecture on mate choice in animals

1130 Frontier Science

Roots: The Hidden Half of Plant Biology (Prof. Malcolm Bennett, School of Biosciences) Roots: the hidden half of plant biology

1130 Frontier Science

The Violent Lives of Galaxies (Dr Meghan Gray, School of Physics and Astronomy) Galaxy evolution: nature or nurture?

1130 Talk
Retention in PGCE Shortage Subject Areas (Phil Collins, University of Worcester Institute of Education) PGCE Science Student Retention

1400 Frontier Science

Interactions Between Influenza and Animals: Who Gets Ill and Why? (Dr Stephen Dunham, School of Veterinary Medicine and Surgery) Research into disease resistance to flu viruses

1400 Talk
Science Networks for Learning Project: Highly Effective ITE and EPD (Bryan Berry, Science Learning Centre South West) Science Networks for Learning Project

1400 Talk
Stars, Galaxies and the Universe: Finding Out How They Are Made (Guest Speaker) Updates on latest astronomical research

1600 Frontier Science

Exoplanets, the Search for Another Earth (Dr Frazer Pearce, School of Physics and Astronomy) Exoplanets, the search for another Earth

1600 Frontier Science

from Professor Katherine Smart (Prof. Katherine Smart)

Teaching/Learning

0930 Talk
'Wonderwall' Approach: Encouraging Children to Ask Questions They Can Investigate (Frank Fearn, HIAS) Wonderwall: children setting their own investigations

0930 Talk
A Science Space Integrated into an Innovative Primary School (Isabel Bartolomeu, University of Aveiro) Integrated Environment of Science Education in primary school

0930 Workshop
Astronomy: The New Galileoscope: Build it and Use it! (Johannes Kepler, Johannes Kepler Project) Build and Use the new Galileoscope!

0930 Workshop
Data Harvest: Human Lab Rats (Barry Hawkins, Curriculum Writer, Data Harvest) Using ourselves for data logging opportunities

0930 Workshop
Datalogging Which is User-Friendly! (Mike Wooster, Edu-Lab) Datalogging which is user-friendly!

0930 Workshop
Developing Independent Learning and Taking it That Stage Further (Liz Lakin, University of Cumbria) Developing and enhancing independent learning

0930 Workshop
Developing Literacy: WAGOLL (repeated Fri 1600) (Lorraine Cooke, National Strategies Consultant Doncaster LA) Simple steps to successful literacy in science

0930 Talk
Engaging Learners in Science and Technology (Stuart Naylor, Millgate House Education) Making lessons more creative and engaging

0930 Talk
Feel The Force (Toby Parkin, Science Museum) Interactive, hands-on show about forces

0930 Workshop
Formative Assessment: Ideas for Improving Teaching and Learning (Dr Susan Burr, Independent) Ideas for becoming a 'formative teacher'

0930 Talk
Going for Level 8!: Strategies for Stepping Up the Challenge (repeat) (Stella Paes, National Strategies) Increasing challenge in science demonstrations

0930 Talk
Innovations in Practical Work: Making Sense of Energy (Richard Boohan, Gatsby Science Enhancement Programme) Practical resources and animations for KS3/4

0930 Workshop
IOP: Journey Through the Cosmos: Inspiration and Help with Teaching Astronomy (Clare Thomson, Institute of Physics) Inspiration and help with teaching astronomy

0930 Talk
National STEM Centre: Resources to Support STEM Teaching and Learning (Jenifer Burden, National STEM Centre) Find teaching resources and get involved!

0930 Talk
Phantasmagoria: The Light Fantastic! (Tom Dudman, Philip Harris Education) Waves, sound, microwaves and light – fantastic!

0930 Talk
Science Opportunities in the East Midlands: Lab 13: Where Learning is Led by Imagination and Curiosity (Sarah Walley, Ignite!) Lab 13 - children run their own lab

0930 Workshop
Smarter Schools: An AZSTT Funded Project 2009 (Penny Thompson, Centre for Sci Edu, Sheffield Hallam University) Coaching, scientific enquiry & personal capabilities

0930 Workshop
Stealth Learning: Interactive Games & Activities (Peter Johnson, Kitchen Chemistry) Improve pupil attainment with fun activities

0930 Talk
STEM Clubs (Matthew Tosh, STEMNET) STEM Clubs Network revolution. Join it!

0930 Workshop
Students' Events Within Interdisciplinary and Cultural Approaches in Greek Science Classrooms (Dr Zoe Zoni Kavogli, Varvakeios Experimental Junior High School) Students' events in Greek science classrooms

0930 Talk
Teacher Education in Scientific Argumentation: Perspectives from the EU-funded STEAM Project (Neil Ingram, University of Bristol) Teachers' professional development in scientific argumentation

0930 Talk
The LSIS STEM Programme: Support and Free Resources for CPD (Helen Roberts, National Science Learning Centre) News and free resources from the LSIS STEM Programme

1100 Drop-in
Developing Your Practical Science Skills: For Teachers and Technicians (repeat) (Bob Worley, CLEAPSS) Hands-on Interesting Practical Work in Science

1100 Workshop
Fibonacci, Flowers and the Golden Number (Marilyn Brodie, Centre for Sci Edu, Sheffield Hallam University) Interactive workshop on the applications of Fibonacci numbers

1100 Workshop
Inspiring Enquiry: Integrating HSW and SEAL to Motivate Scientific Thinking (Emma Barber, Bromley LA) A tool for developing reflective enquiry

0930
Feel The Force

Friday 8 January

1100 Talk
Learning Skills for Post-16 Sciences (Jean Scrase, Gatsby Science Enhancement Programme) Learning Skills for Post-16 Sciences review

1100 Workshop
Making Science Lessons Like Science (Richard Aplin, The HIAS Science Team) "The study of science offers opportunities to find explanations."

1100 Workshop
Renewables Don't Run Out: A New Way to Investigate and Explore Sunflowers (Joy Parvin, Chemical Industry Education Centre) Innovative Enquiry: plants as renewable resources

1100 Workshop
Socrates, What a Brilliant Nuisance! (Marcel Staring, Pabo Almere, University of Applied Science) Stimulating scientific attitude through Socratic conversation

1130 Talk
Blended Media Support for How Science Works at KS3 (Mark Windale, Sheffield Hallam University) Blended-media support for 'How Science Works' KS3

1130 Workshop
Data Harvest: Sounds Interesting! (Barry Hawkins, Curriculum Writer, Data Harvest) Circus of activities based on sound

1130 Talk
Experiencing Nature of Science: Discover Your Own Understanding of NOS (Kerstin Oschatz, University of Hamburg) Experiencing Nature of Science (NOS)

1130 Workshop
Exploring How Science Works through an Enquiry-based Learning Approach (Dr David Bridgewater, County Durham LA) Developing Enquiry Based Learning in science

1130 Frontier Science

Thunder and Lightning Demonstration Lecture (Dr Pete Licence and Mr Jim Gamble, School of Chemistry) Chemical flashes and bangs

1130 Special Event

John Lewis Lecture: What's Going On in the Universe? (Dame Professor Jocelyn Bell Burnell, The Institute of Physics) Sponsored by the Institute of Physics

1130 Talk
Mind the Gap: Science Teachers' Perspectives on Policy, Research and Practice on Argumentation and How Science Works (Xiaomei Yan, University of Bristol) Minding Gaps in How Science Works

1130 Talk
Pupils' Views of Inspiring Lessons, Engaging Activities and Informative Assessment (Helen Darlington, Helsby High School) Learning from pupil voice and planning

1130 Talk
Science Opportunities in the East Midlands: Space, Science and Inspiration (Anu Ojha, National Space Centre) Interactive taste of Space Academy programmes

1130 Talk
Science Teaching in 2010 & Beyond: The National Strategies' Perspective? (Pauline Hoyle, Programme Director: Science, National Strategies.) Science education for the next decade

1130 Workshop
Seeing Life Through A New Light (Andrew McKinley, University of St Andrews) Interactive science show to promote learning.

1130 Talk
Talk Science: Effective Contemporary Science Discussions from the Science Museum (Beth Hawkins, Science Museum) Contemporary science discussion for the classroom

1200 Talk
Simply the Best: Leicestershire and the National Strategies' Intervention Toolkit (David Stockwell, The National Strategies) Case studies and resources for intervention

1400 Workshop
CREativity in Science and Technology: The CREST Award Scheme (Adrian Fenton, British Science Association) Find out about new and existing developments to the scheme

1400 Workshop
Data Harvest: Olympic Science (repeat) (Barry Hawkins, Curriculum Writer, Data Harvest) A circus of activities linked with sport

1400 Drop-in
Developing Your Practical Science Skills: For Teachers and Technicians (repeated Sat 1100) (Bob Worley, CLEAPSS) Hands-on Interesting Practical Work in Science

1400 Frontier Science

Stem Cells: Unlocking the Secrets of Development, Health and Disease (Prof. Lorraine Young, School of Human Development (STEM)) Stem Cells for medicine

1400 Talk
Galileo, Darwin and the Spirituality in Nature (repeated Sat 1400) Dr Francisco Diego (Narrator/Scientist), Jenny Lee (Director), Peter Joyce (Galileo), Erlend Iversen (A Cardinal), Ana Diego (A Modern Citizen). Semi-staged play with audience debate at the end

1400 Workshop
Having a Go at Real How Science Works (repeat) (Stuart Sherman, National Strategies) Does dowsing work? - Let's find out

1400 Talk
Junior Time Team: Science for KS2/3 Through History & Archaeology (Linda Scott, University of Worcester, STEM) Ideas and resources to take away

1400 Workshop
National Science and Engineering Week: Funding, Resources and Ideas! (Jenny Beard, British Science Association) Workshop with ideas, resources and advice on how to organise science and engineering events at your school

1400 Talk
Planning for Assessment for Learning Opportunities in Science (Chris Harrison, King's College London) Exploring formative action in lessons/activities.

1400 Workshop
Renewables Online: New Interactive Website for Use with 9-11 Year Olds (Gayle Pook, CIEC) Interactive website: plants as renewable resources

1400 Workshop
Ricky and Friends Go to the Antarctic (Lisa Wood, Kaizen Primary School) Interactive materials for children to use

1400 Workshop
Science and Design and Technology (Zoë Crompton, National Science Learning Centre) Make effective connections between these subjects

1400 Workshop
Science Language (Linda Atherton, Educational Development Service Warwickshire) Interactive primary cross curricular workshop

1400 Talk
Science Opportunities in the East Midlands: STEM Student Journalists and Heroes (Natalie Martin, East Midlands STEM Partnership) STEM Student Journalists and Heroes

1400 Workshop
Table-top Atom Smashing: Finding Hidden Internal Structures (Chris Robbins, Why Learn That?/Grallator) Mechanics meets particle physics!

1400 Workshop
Teaching Science to Visually Impaired Students (Sarah Hughes, New College Worcester) Teaching Science to Visually Impaired Students

1400 Talk
The Italian ISS National Plan for a New Approach to Science Literacy (Paola Ambrogi, SSIS University of Modena e Reggio) A new approach to Science Literacy

1400 Talk
The New Forest Project (Ian Galloway, Science Learning Centre South East) Collecting complex data from outdoors

1400 Talk
Using the Framework to Close the Gaps (repeat) (Lynn Henfield, National Strategies) Improving progression for pupils

1600 Talk
BLOODHOUND SSC: A Vehicle for STEM (Ian Galloway, Education Director BLOODHOUND SSC) BLOODHOUND SSC will inspire and motivate

1600 Workshop
Developing Literacy: WAGOLL (repeat) (Lorraine Cooke, National Strategies Consultant Doncaster LA) Simple steps to successful literacy in science

1600 Talk
Discussing Science: How to Get Your Students Thinking and Talking (Lorna Williams, Thinktank) Interactive session discussing science in schools

1600 Talk
Implementation of Evolution Experiments on Portuguese Schools and on the Citizen Science Situation: A Case Study (Maria Rui de Vilar Correia, Ciência Viva Agency) Meet Darwin through flies and snails

1600 Talk
Innovation and Impact in CPD (Mary Ratcliffe, National Science Learning Centre) Innovation and Impact in CPD

1600 Talk
Key Stage 3: When is a Particle Not a Particle? (Dr Ken Gadd, 4science) Right concept at the right time

1600 Workshop
Practical Ideas Enhancing Learning in Physics (2) (Gerry Blake, Gatsby Science Enhancement Programme) Practical Ideas Enhancing Learning in Physics

1600 Workshop
Putting the WOW Factor into Science with the Revised Curriculum (Wendy Precious, Staffordshire LA) Minds-on, hands-on, creative primary science.

1600 Workshop
Science Opportunities in the East Midlands: Inspiring Young People with Science: Innovative Learning with CELS (Mark Crowley, CELS, Nottingham Trent University) CELS – scientific inquiry, inspiring KS3 & 4 students

1600 Workshop
Science, God or Both? Learners' Reasoning About the 'Big Questions' (Dr Berry Billingsley, University of Reading) Science, God or both?: Learners' reasoning about science and religion

1600 Workshop
Smart Science: New Resources to Complement the Original Pack! (Lynne Bianchi, Centre for Sci Edu, Sheffield Hallam University) Coaching, scientific enquiry & personal capabilities

1600 Talk
Spectroscopy in a Suitcase (Paul Cullis, University of Leicester) Portable spectroscopy equipment use in schools

1600 Workshop
WOW: Interactive Starters to Lessons (Allie Beaumont, Science Learning Centre South West) WOW - Interactive starters to lessons

Technicians

0930 Talk
Technicians Focus: Welcome Session (Mrs Michelle McGaughey, Chair, ASE Lab. Techs Committee) Welcome and Information

1130 Workshop
Technicians Focus: Ecology and Evolution in Petri Dishes (repeated Fri 1530) (Roger Delpech, Institute of Biology) Ecology and Evolution in Petri Dishes

1130 Workshop
Technicians Focus: Taster Data-Logging Curriculum Workshop (Guest Speaker, Pasco / Feedback) Technicians Data-logging Workshop for Curriculum usage in Science

1530 Workshop
Technicians Focus: Ecology and Evolution in Petri Dishes (repeat) (Roger Delpech, Institute of Biology) Ecology and Evolution in Petri Dishes