Irish Science Teachers' Association
Eol Oidi Na hEireann

Lifetime Lab
AT OLD CORK WATERWORKS

Discover Primary Science and Maths
www.primaryscience.ie

Science Day for Primary Teachers Timetable

SFI Discover
Science Foundation Ireland

Saturday 28th March 2015

Time	Primary Programme
9.00am	*Registration & Exhibitors Stands* *(open from 8.30am- best time for freebies & visiting stands)*
9.30am – 10.40am	Welcome & Introduction
	Exploring Forces – Michael Browne & Maria Sheehan This session will explore forces and how to introduce and build on pupils understanding of this concept at primary level. Participants will engage with push and pull forces, friction, inertia and gravity. The session will be hands-on and will model methodologies suitable for teaching Science in primary schools at all levels. Each participant will receive a booklet of investigations relating to this topic.
10.40am-10.50am	*Tea/Coffee*
10.50am – 11.50am	**Rubbish Science** - Elena Setterfield Rubbish Science is an intellectually stimulating and practical way of teaching Primary Science with minimum cost using materials from the recycle bin. The practical tasks cover 'working scientifically skills' and are exploratory and investigative. Low cost practical's with a very low carbon footprint but with a high learning outcome.
11.50am-12.30	**The Nature of Science** - Science in a Box – STEAM Education Ltd Kids are fascinated by puzzles and magic and there are no areas with more confounding puzzles and no more dramatic 'magic' than science. Science in a Box is an outreach programme where professionals with a background in STEM co-teach a science course with primary teachers within schools.
12.30 – 1.15pm	*Lunch/Exhibitors Stands*
1.15pm – 2.15pm	**Ask, Look, Think** - Lesley Hunter Association for Science Education, NI A lively workshop giving teachers a range of strategies and activities aimed at enthusing pupils and developing their essential science skills of questioning, observing and problem solving. Be prepared to take part and have fun!
2.15-pm-3.15pm	**Teaching Science Through Inquiry** –DPSM/ESERO Teacher CPD Programme This session will explore how the SFI Discover 'Framework for Inquiry' can be used to promote inquiry-based science teaching and learning in primary schools and to further develop teachers' understanding of how to teach science through inquiry.
3.15pm-3.30pm	*Tea/Coffee*
3.30pm-4.30pm	**Roller-Coaster Fun for Everyone** – Scott Ziglinksi Physics should not be feared, it should be embraced. In this session, teachers will design and build roller-coasters with hills, loops and drop-offs. In doing so, they will learn that one of the most fundamental scientific concepts—kinetic energy—is appropriate for all levels of primary education (yes, infants included!). By the end of the session, teachers will be confident they can lead a series of roller-coaster activities in their classrooms. Be prepared to be challenged, be creative and have fun.

ISTA Science Day for Primary Teachers

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Our Guest Speakers

Lesley Hunter, Creavery Primary School, Antrim.

Lesley is a prize winning Primary Science Teacher from the Association for Science Education Northern Ireland. Lesley teachers at Creavery Primary School, Antrim, and is a Science Co-ordinator and Teacher Developer. She gives science support to a cluster of schools and also delivers workshops on creative science at the UK National Science Learning Centre, York and at ASE workshops held in Northern Ireland. (http://www.antrimtimes.co.uk/news/local-news/local-primary-teacher-recognised-for-being-one-of-best-in-the-uk-1-3524585)

Maria Sheehan and Michael Browne

Maria Sheehan and Michael Browne run annual science courses for Primary Teachers with the Limerick Education Centre and have experience in supporting schools and teachers in developing the teaching of science in their schools. Maria has a background as a second level science teacher and is currently an advisor with the Professional Development Service for teachers, as well as being National Secretary of the ISTA. Michael is an experience primary school teacher and also author of the Window on the World Science series of books for Irish Primary Schools

Scott Ziglinski

Based in Tralee, Co Kerry, Scott works with 80 primary schools a year in Kerry and North Cork doing physics/ engineering workshops from Infants to 6th class, while also travelling several times a year to the United States to train teachers and conduct engineering workshops. While a high school science teacher in the US, Scott was recruited to train primary teachers how to teach hands-on inquiry based science lessons. Following this he became a primary science specialist, working with schools to help develop their science teaching. In 2002 he developed Elementary Engineering, a hands-on science programme that gives students an opportunity to work through the engineering process and introduce them to the wonderful world of physics.

DPSM/ESERO Teacher CPD Programme – SFI Discover

Discover Primary Science and Maths (DPSM) supported by Science Foundation Irelands Discover Programme promotes inquiry-based science teaching and learning in primary schools. With co-funding from European Space Education Resource Office (ESERO) a series of teacher CPD workshops are being offered to schools which seek to improve teachers engagement with and confidence in using inquiry based approaches to teaching science

Elena Setterfield

Elena is an experienced and enthusiastic UK science teacher devoted to fostering a love of science and inquiry in children. The ethos of Rubbish Science is to use recycled rubbish to do "hands on" science experiments, encouraging young scientists to think about a cleaner and greener planet. Using plastic bottles, cardboard boxes and empty margarine tubs Elena explores a variety of topics which help children understand how much science can be done with everyday objects.

Science in a Box – STEAM Education Ltd

Science in a Box is an outreach programme being developed where professionals with a background in science, technology, engineering and maths, co-teach a science course with primary teachers within schools. Specialised presentation and tools developed specifically for the 10-13 year age group are supplied 'in a box' for a range of individual modules – each box containing experiments and equipment for 30 students.