



# Science Day for Primary Teachers

Saturday, 8<sup>th</sup> April, 2017

Maynooth University

Organised by the Irish Science Teachers' Association as part of their annual conference, this event will be an opportunity to bring together primary teachers who are interested in developing the teaching of science within their schools.

Attending this event will help you to:

- build on your own knowledge and confidence in the teaching of science
- meet like-minded teachers who share a similar interest in Primary Science
  - gain ideas to inspire children and colleagues to enjoy science
  - become more aware of resources and programmes available to support you in the teaching of Primary Science

Talks will include:

'Tremendous Science': Investigating a Tree	Conquer Your Fear of Teaching Electrical Circuits
The Bicycle: How Does it Work? Primary Science that is practical and relevant	Exploring Different Types of Science Enquiry
Prof Donal O'Shea: Obesity & Our Children	Roller Coaster Fun for Everyone
Space Picnic—Food and Taste in Space with DPSM/ESERO	

A fee of €35 (€30 early bird) will cover registration for primary teachers, entry to all talks and lunch. Access to the exhibit area is also included, where science resources companies, publishers and national science programmes will have a variety of stands.

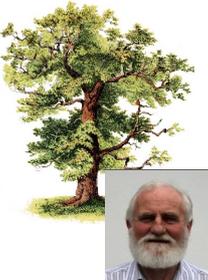
Registration will be online at [www.istaconference.com](http://www.istaconference.com). Website live from January 2017.

The ISTA Science Day for Primary Teachers will run as part of the ISTA Annual Conference for Second Level Science Teachers on Saturday 8<sup>th</sup> April 2017.

The ISTA is a voluntary organisation run for teachers by teachers.

## Science Day for Primary Teachers: Some of our Guest Speakers

Saturday 8<sup>th</sup> April 2017, 9.30am–5pm, Maynooth University

Speakers	Session Descriptions
	<p><b>Prof Donal O'Shea: Obesity and Our Children</b></p> <p>Inspirational speaker and campaigner on the public health issue of rising obesity levels, Prof Donal O'Shea will share his concerns and insights into the growing problem of childhood obesity in Ireland. Prof. O'Shea is a consultant endocrinologist and physician based in St Vincent's University Hospital and the Conway Institute in UCD. His recent research has focused on the role of our immune systems in regulating body weight. <i>(This talk will be a joint session for Primary and Second Level Teachers)</i></p>
	<p><b>Stuart Naylor: How to carry out science investigations in class.</b></p> <p>How can we answer scientific questions and develop children's science ideas? This workshop explores different types of science inquiry: what they are, how they can be developed from different starting points, and how you can build different types of science inquiry into your teaching. It will help you to make science inquiry more manageable in your classroom, as well as helping your children to learn more about science. Stuart Naylor co-author with the late Brenda Keogh of Concept Cartoons in Science has produced with Millgate House Education wonderful science teaching resources and books (<i>The Snowman's Coat, It's Not Fair or Is It</i>)</p>
	<p><b>Scott Ziglinski: Roller Coaster Fun for Everyone</b></p> <p>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. Scott and his wife, Eddie, run <i>Elementary Engineering</i>, a hands on science programme that introduces students to the engineering process and the wonderful world of physics.</p>
	<p><b>Úna Leader: Electricity for the Terrified</b></p> <p>Conquer your fear of teaching electrical circuits in the Primary classroom! This hands on workshop will go through the basics you need to know to teach Electricity at Primary level. For anyone has every been scared by the thought of taking out the 'Electricity Box' or wondered 'are the children going to get shocks?'. Úna Leader develops and delivers Primary Science Workshops at Lifetime Lab in Cork City.</p>
	<p><b>Paddy Madden: Tremendous Science—Investigating a Tree</b></p> <p>Get to know lovely trees on the campus in Maynooth. An outdoor science session "Investigating a Tree" looking at leaves and their function, trunk etc, investigating transpiration with a fair test and investigating invertebrates using 4 techniques. Participants will get a template of observation for future use in their classrooms, be shown how to use a bud key and how to "adopt" a tree with children. Educator, environmentalist, local historian and author of 'Go Wild at School', retired lecturer in SESE at Coláiste Mhuire, Marino Institute of Education, Paddy now works for SEED: School Earth Education, turning school gardens into living classrooms.</p>
	<p><b>Brian Tubbert: The Bicycle.</b></p> <p>Coming at the primary science curriculum through the question 'How does it work?' is a good way of rooting your science teaching in things that are practical and relevant. Brian will take us through ideas for classes based on an item familiar to all children - the Bicycle - using the question 'How does it work?' and dealing primarily with strands Energy and Forces and Materials. Brian Tubbert is a lecturer in SESE at the Froebel Department of Primary and Early Childhood Education, Maynooth University.</p>