

abbvie

SLIGO SCIENCE FESTIVAL

Climate Science

Transforming the Planet

10th-17th Nov 2019



Supported by Science Foundation Ireland

ITSligo50
An Institiúid Teicneolaíochta Sliocht



At a Glance

Sligo Science Festival 2019 10th – 17th November Part of National Science Week

Pre Festival Workshop Friday 8th November

Spectroscopy in a Suitcase **Workshop with Dr. Fiona McArdle and students on the Forensic Investigation & Analysis Programme**

(Public Event) Age: 14-18 years

Workshop 1: 10am - 12 Noon

IT Sligo, Room B2061

For details and bookings, Contact Dr. Fiona McArdle (mcardle.fiona@itsligo.ie)

Sunday 10th November

The Sligo Science Fair at IT Sligo 12.00 - 5.00pm

Family event explaining science in a fun way Public Event (All Ages)

Monday 11th November

Madlab Workshop

9.30am, 11.15am & 1pm, The MODEL, The Mall, Sligo. Schools invitation only event

Alexandra Jamieson **From Hare to There – *Movements of the Native Irish Hare***

6.30pm, IT Sligo, Room A0005

Public Event (All Ages)

Tuesday 12th November

Carrowkeel Archaeology Walk with Sam Moore

Bus departs IT Sligo at 9.30am

Public Event (13+) – wear sturdy boots and outdoor clothing - Booking Required

Our Sun and Other Stars with Deirdre Kelleghan

10am, 11.30am and 1.30pm

Dromore West Community Centre

Primary Schools Invitation Event

Primary Science Day at the Organic Centre

9.30am - 2.00pm

The Organic Centre, Rossinver Co Leitrim

Primary Schools Invitation Event

The Green Aware Sligo Film Afternoon

IT Sligo, Hume Hall

Screening at 12.30 - 1.15, 1.30 - 2.15pm

and 2.30 - 3.15pm

Public Event (All Ages)

Sligo Climate Wisdom

6.00pm – 7.00pm, IT Sligo Hume Hall

Public Event (All Ages)

Climate Science Transforming our Planet

Keynote Speaker – Dr. Cara Augustenborg

7.30pm, IT Sligo, Aurivo Lecture Theatre

Public Event (All Ages)

Wednesday 13th November

Magic Science – Science Magic with Ian Dunne

10.30am & 12.30pm

Art Deco Theatre, Ballymote, Co Sligo

Schools Invitation Event

Wonderstruck Rocket Show

1pm & 2.30pm, IT Sligo Hume Hall

Schools Invitation Event

Wonderstruck Rocket Show

6.30pm, IT Sligo Hume Hall

Public Event (All Ages)

IT Sligo Lecturers Roadshow

Dr. Mary Heneghan

Pre-School only event

A Brief History of Nearly Everyone (in Ireland)

with Lara Cassidy

7.00pm, IT Sligo, Room A0004

Public Event (All Ages)

ASPIRE with ABBOTT

6.00pm - 8.30pm

IT Sligo, Aurivo Lecture Theatre

Public Event (suitable to age 12 plus)

Green Your Life

10am - 3pm, IT Sligo Campus

1.00pm - 2.00pm, IT Sligo Aurivo

Lecture Theatre

Thursday 14th November

Mad Professor

10am Tubbercurry Community Library

Schools Invitation Event

12 noon & 1.45pm

Ballymote Community Library

Schools Invitation Event

Overview of Forensic Autopsy Pathology

with Dr. Paul Hartel, MD

8.00pm, IT Sligo, Room A0005

Public Event (All Ages)

ISTA Senior Science Quiz for Second Level Schools

The annual ISTA science quiz sponsored by

AbbVie, 7.00pm, IT Sligo, Room A0006

The Role of Climate in Neanderthal Social and Cultural Evolution

with Rory Connolly

7.00pm, IT Sligo Room A0004

Friday 15th November

Spectroscopy in a Suitcase

Workshop with Dr. Fiona McArdle and students on the Forensic Investigation & Analysis Programme

(Public Event) Age: 14-18 years

Workshop 1: 10am -12 Noon;

Workshop 2: 1pm – 3pm,

IT Sligo, Room B2061

Contact Dr. Fiona McArdle

(mcardle.fiona@itsligo.ie)

CSI Experience

with Kieran O'Brien and Jim Gallagher

9.00am to 4.00pm

IT Sligo, Room B3201

Public Event (Age 15+) – Booking Required

The Secret Life of Crows

with Ricky Whelan of BirdWatch Ireland

8.00pm, IT Sligo, Room A0005

Public Event (All Ages)

Moonwalking in Sligo

8.00pm, Slish Woods, Sligo

PUBLIC EVENT (Age 13+) booking required

IT Sligo Lecturers Roadshow

- Dr. Kenneth Monaghan

'Mirror Therapy & Neuroplasticity'
& Careers Talk

Magh Ene School Bundoran

School only event

Saturday 16th November

Vampire Science

with Dr. Kathryn Harkup

7.30pm, Court number 1

Sligo Courthouse, Teeling Street, Sligo,

Public Event (Age 12+)

Sligo Science Fair at IT Sligo

Sunday 10th November, 12.00 - 5.00pm

Family event explaining science in a fun way. The Annual Science Fair at IT Sligo will include a wide range of performances, interactive displays and demonstrations for all the family to enjoy. Experiments, Discovery and lots of fun guaranteed for both children and adults.

Theatre Performances

The Scientific Dilemma's of Dippy the Dinosaur with Sue McGrath

Aurivo B1094 – 12.00, 2.00 & 4.00pm

Learn about how Paleontologists, the intrepid explorers of uncharted territories, discover fossils of prehistoric proportions and then use them to unravel the puzzles surrounding the lives of dinosaurs. This unique, educational and entertaining show investigates and explores some mind-boggling dilemmas of the magnificent sauropod: **DIPODOCUS**.



Who Are You Callin' Air Head with Eureka Edinburgh

A0004 – 12.20, 1.10, 2.30 & 3.30pm

Who you callin' Airhead?! Steve has a new hobby. He's a bit of an air head. Long suffering friend Barbara wants to know more, though soon she'll wish she'd never asked. Join them for the World premiere of this ridiculous adventure of

nonsense, one-upmanship and hovercrafts*. Who knows? You might even learn something along the way. This entertaining and educational science show experiments with air, pressure and Bernoulli's principle. *Contains actual hovercraft



Science - It's like Magic but real... with Graham Hewston

A0005 – 12.10, 2.10 & 4.10pm

In this fun-filled presentation Graham will draw the fine line between science and magic and then we will explore the consequences of crossing and double-crossing that line! Highlights include: confusing illusions, wandering water, mysterious floating objects and things which shrink or grow just by looking at them. Audience volunteers be ready to sort out the magic from the science...

How to Save the Planet in 45 minutes with Dr. Ken Farquhar

A0006 – 12.15, 2.15 & 3.45pm

Follow Dr. Ken as he attempts to slim his bin. Will he avoid being blown up by a rotting banana? Will he be distracted by fantastic plastic? Can he find other uses for a coke can, reduce his carbon footprint and affect climate change one tree at a time? He may well be talking rubbish, but it will make sense!!! A sustainability show exploring the science behind the environmental campaign that encourages households to reduce, reuse and recycle.



Victoria Walker's Chemical Crew

BLACK BOX THEATRE – 1.00, 2.30 & 4.00pm

Chemistry Crew present, a dance piece inspired by the consequences of global warming we are beginning to face, drawing on the natural elements and their powers of destruction. More importantly, we are inspired by how we can unite, together, to find a solution. *All costumes worn for the piece are recycled to fit the theme from materials we had in our studio*

Demonstrations & Interactive Workshops

Nature Challenge with Michael Bell

B1201 – All Day

Learn all about the wonderful world of nature to be found in and around Co Sligo. Quizzes to test your nature knowledge, live mini beasts to handle and bones from the second largest animal in the world that were found in Sligo!

The Wonder of Marine Life with Robin Barry

B1080 – All Day

Experience the wonderful magic of the Marine World around us and learn how to identify different sea shore species edible and non-edibles, such as shellfish, seaweed plants, fish, birds and mammals emphasizing the importance of protecting marine life from the dangers of plastics entering our waterways.

Madlab

B1202 – 12.10, 2.00, 3.30pm

Learn how to solder and make a working electronic gadget to take home with you. We have lots to choose from including lie detectors, musical bagpipes, burglar

alarms and steady-hand games. Suitable for ages 7 and up. Younger children should be accompanied by an adult. Maximum 25 persons per workshop- Pre-book only-Tickets from the workshop

Bricks 4 Kidz

B1081 – All Day

Come along and join Bricks 4 Kidz and their fun and challenging workshop and explore engineering through using LEGO®, Technic & Robotics.

The Engineering Fair & Engineers

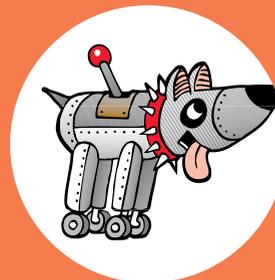
Week provide a unique opportunity for primary students to learn about engineering and together with Bricks 4 Kidz, you can help us build the engineers of tomorrow.LEGO® based education programmes have proven to be a very effective method of introducing engineering concepts to school age children and a Bricks 4 Kidz engineering workshop provides children of all ages with a fun and educational way to develop their understanding of engineering principles though building dragsters, roller coasters, buildings and much much more using our specially designed Lego® Technic kits.



The Flights of Fancy with Greg, Anne, Tony, Isabella & Kevin

E1007 – All Day

Interactive workshop where participants build various scientific flying toys ---- paper helicopters, parachutes, blimps ---- The children will then launch them from a kite high in the sky!



2D Game Programming Workshop with Neil Gannon

D2039 – 1pm

Develop a 2D game from start to finish in this game programming session that covers all the core fundamentals of games development. Max. 24 participants: Pre-book only-Tickets from Science Fair Reception Minimum age 12 + years

Archaeology Road Show

Main Concourse – All Day with Sam Moore and the Archaeology students

Explore the world of archaeology. Technology, skulls, bones and stones - see replica skulls of our human ancestors. Animal bones that might surprise you. See cutting edge survey technology using drones. Get to see how archaeologists find out about our past.



Exploration Dome with Martin Conroy

C Block Canteen – All Day

Mobile Planetarium gives children a chance to interact with the planets and stars in our universe. Pre-book only -Tickets from THE EXPLORATION DOME

All-Ireland Pollinator Plan with Leif Barry

B1082 – All Day

Leif Barry is an environmental scientist from the Burren in Co. Clare. Leif is a Bumblebee recorder for the National Biodiversity Data Centre. Learn all about our many wild pollinators and how to provide them with nectar and pollen sources so they can survive and thrive. Identification aimed at Adults, parents and children. Come along and learn how to become a citizen scientist!



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AbbVie - Bringing the magic of STEM to life

Hume Hall – All Day

Employees from AbbVie's manufacturing facilities in Sligo will be joined by award-winning physicist and an engineer, Phil Smyth. Phil is an experimenter, showman, writer and presenter with Ireland's national broadcaster RTÉ. Phil and the AbbVie team will deliver a number of exciting, interactive and fast-paced science-focused shows throughout the day. This is an event that parents and kids will not want to miss!

Displays

Eagles Flying

**Main Reception Area
– All Day**

Get up close with the masters of the sky! Get a picture taken with you and an eagle or an eagle owl on your shoulder. Learn more about these magnificent birds.



Soil Makers with the Organic Centre

Main Concourse – All Day

The Organic Centre's workshop explores the science of soil making, a DIY guide to recycling food and garden waste, demonstrating what you can do at home in a small space and in a short space of time. Saving the Planet in the modern world! Child and Adult friendly.



Defence Forces

Lower Concourse – All Day

Discover the science of Explosive Ordnance Disposal



Air Sea Rescue

Knocknarea Arena Training Pitch – approx. 2pm - 4pm

A Land on Static Display, where people can come and ask us questions and see some of the kit that we carry. The Irish Coast Guard Helicopters are located at 4 bases throughout Ireland. Sligo, Waterford, Shannon, Dublin.

This Sligo based Helicopter covers the North West of Ireland and has a range of 250nm. The service is provided 24/7 365 and covers Maritime, Mountains, Coastal areas and also provide an overland Search and Rescue service as well as a HEMS service to the National Ambulance Service. If you see anyone in trouble at sea call 999/112 and ask for the Coast Guard.

Sligo Bay Life Boat Services

Main Canteen – All Day

Take the opportunity to meet the volunteers and members of Sligo and Leitrim emergency services, hear their stories and see the equipment they use.

Primary School Science

C Block Foyer – 12.00-2.30pm

Exciting experiments and activities demonstrated by primary school pupils from Sligo town and county.

Bird Watch Ireland

Main Entrance – All Day

Sligo Environmental Network

Main Concourse – All Day

Sligo Environmental Network is a voluntary community group which aims to engage individuals and already existing groups in Sligo to take climate action, share their knowledge and make change on governmental levels. Please join us to have a chat about climate action in your life or if you'd like to be linked up to other like-minded people!

Kitchen Chemistry with St Angela's College

Main Concourse – All Day

Cooking up a Chemical Storm" students from St Angelas's College, will blow your minds with their chemical wizardry just using a few ingredients from the kitchen cupboard! Come along and learn how to make DNA, rain clouds, elephants' toothpaste, rainbows and lots more!

Irish Water

Main Concourse – All Day

Do you want to know where your drinking water comes from and how your drinking water is treated? Do you want to know what happens to items you flush down your toilet? Call into Irish Water's interactive stand and speak to some of our staff members who will show you the science and engineering around one of our most precious resources - Water.



The Mountain Rescue Team

Main Entrance – All Day

The Mountain Rescue Team displays its equipment and abseiling techniques

Sligo Garda Siochana

Main Canteen – All Day

Members of the local Garda Siochana talk about crime prevention

Civil Defence

Main Canteen – All Day

Sligo Fire Department

Main Canteen – All Day



Science Week

Sligo Science Festival's schedule of lectures, events and performances. All events free entry. To guarantee your place please contact melia.oli@itsligo.ie

Pre Festival Workshop Friday 8th November



Spectroscopy in a Suitcase **Workshop with Dr. Fiona McArdle and students on the Forensic Investigation & Analysis Programme**

10am - 12 Noon, IT Sligo, Room B2061

(Public Event) Age: 14-18 years

For details and bookings, Contact Dr. Fiona McArdle (mcardle.fiona@itsligo.ie)



Monday 11th November



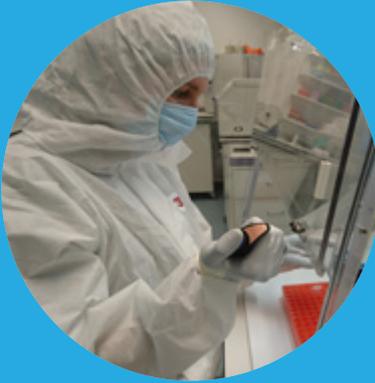
Madlab Workshop

9.30am, 11.15am & 1pm
The MODEL, The Mall, Sligo

Schools invitation only event. Learn how to solder and make a working electronic gadget to take home with you. We have lots to choose from including lie detectors, musical bagpipes, burglar alarms and steady-hand games.



Tuesday 12th November



Alexandra Jamieson

From Hare to There – *Movements of the Native Irish Hare*

6.30pm, IT Sligo, Room A0005

Public Event (All Ages)

The native Irish hare is a subspecies of mountain hare. It is only naturally found in Ireland. However, there have been points in the past when ancient people have moved this species outside its natural range. This talk will walk you through how, by studying ancient DNA, it has been possible to discover where ancient people have moved mountain hares and why they may have done so. Alex is a PhD researcher at the University of Oxford. She works on ancient DNA in the field of Archaeology. Her current research is looking at animals which have been moved around by people.

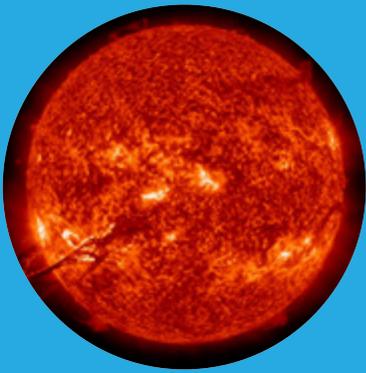
Carrowkeel Archaeology Walk with Sam Moore

Bus departs IT Sligo at 9.30am

The Carrowkeel passage tomb complex constitutes one of the best preserved Neolithic funerary landscapes in Europe. It is situated in the Bricklieve Mountains, Co Sligo. The complex comprises 24 passage tombs and cairns that were likely constructed during the Middle Neolithic Ages (3500–2900 cal. BC).

Sam will lead a walk in which you will visit four of the 24 cairns in the complex, and explore inside two of the cairns and visit Pollnagolum Cave and the view overlooking the Maullaghfarna Plateau. It is a relatively slow paced walk with many stops to both explore and rest.

Sam Moore is an archaeologist with a keen interest in Irish passage tombs specifically and prehistory in general. He has written or contributed to a considerable number of local history articles, books and guides, and has considerable archaeological excavation and survey experience. Sensible footwear and waterproofs are advised. For further information and bookings please contact moore.sam@itsligo.ie or melia.oli@itsligo.ie



Our Sun and other Stars with Deirdre Kelleghan

**10am, 11.30am and 1.30pm
Dromore West Community
Centre Schools
Schools Invitation Event**

Our Sun and other Stars is a new drawing workshop to enable people of all ages to become aware of the power of our nearest star. Draw aspects of its features and magnificent energy. The workshop offers an understanding of stars, where they come from and what they do. Why they are different colours and why our star is so special and so ordinary at the same time. We take a look at the great nebula in Orion where stars are born.

Primary Science Day at the Organic Centre

**9.30am - 2.00pm
The Organic Centre, Rossinver
Primary Schools Invitation Event**

Booking required:
Contact Oli Melia (melia.oli@itsligo.ie)
Each workshop below runs 4 times:
9.30am, 10.40am, 11.50am & 1.10pm

The next 4 workshops are the science day at the organic centre:

- Make your own Bug Farm with Eureka Edinburgh

Join Eureka Edinburgh and make your own bug farm! First up, you'll learn a little bit about entomophagy (eating insects) and the work of the charity 'Bugs For Life', co-founded by Eureka Edinburgh's own Craig Macfarlane, with a community in Benin, West

Africa. Then, it's time to get creative and design and decorate your own bug farm ready for your very own insects – darkling beetle larvae, otherwise known as mealworms, an extremely popular edible insect. To finish, if you are feeling adventurous enough, you can try some mealworms for yourself in a tasty treat – yum!



- Nature on our Doorstep with Michael Bell

Learn about the nature that lives all around us with Michael Bell of Nature Learn. Michael will talk about many of the animals and plants that share our neighbourhood and plenty of hands on activities to look at. Be prepared to go on a minibeast safari around the grounds of the Organic Centre.



- Compressed Air Rockets with Wonderstruck

Pupils work in pairs or individually to build paper and card rockets. Once complete, we launch the rockets from our custom built launchers, supplying launch pressures up to 100 psi! The main STEM topics covered in this workshop are: Forces, Aerodynamics & Friction, as well as more holistic skills such as team working, communication, investigation etc.



- Let's Explore Energy with Ingrid Foley

The workshop will explore the science of energy. Looking at what energy is, exploring heat, sound, kinetic potential and the laws of energy using practical and fun interactive methods. During the workshop participants will learn use Newton's cradle, tuning forks, exploding tablets to mention but a few





**The Green Aware Sligo Film Afternoon
IT Sligo, Hume Hall
Screening at 12.30-1.15, 1.30-2.15pm
and 2.30-3.15pm
Public Event (All Ages)**

How can you become Green Aware?
How can you positively affect the environment?
Come along to the Green Aware Sligo Film Afternoon and see what people all across County Sligo are doing to become Green Aware.

The Green Aware Sligo brand evolved from the 'Green Fleadh Aware' and has been in use by Sligo Tidy Towns for the last number of years. Sligo County Council have partnered with Sligo Tidy Towns in an effort to work together to strengthen the ethos behind this brand to deliver and promote sustainable environmental initiatives for Sligo. In 2018, Sligo County Council delivered a 10 week social media campaign on correct waste management practice in the home. In 2019, Sligo County Council delivered a 6 week campaign on Climate Change, a behavioural change initiative aimed at creating education and awareness to the general public on reducing our carbon emissions.

**Sligo Climate Wisdom
6.00pm – 7.00pm, IT Sligo, Hume Hall
Public Event (All Ages)**

Sligo Environmental Network is a voluntary community group which aims to engage people in Sligo to take climate action and encourage change on governmental levels. For Sligo Climate Wisdom we have talked to people in their 60s, 70s and 80s and recorded the conversations. Today's readings are materials taken verbatim from the participants' memories

and stories. The project has been rewarding and heart-warming in the process so far and after receiving great feedback we are hoping to develop it from these first readings into a bigger arts project which continues to spark climate conversations among young and old.



Climate Science – Transforming our Planet with Dr. Cara Augustenborg

**7.30pm, Aurivo, IT Sligo
Public Event (All Ages)**

Professor Frances Lucy, Head of Environmental Science at IT Sligo hosts Dr. Cara Augustenborg. Dr. Augustenborg is an environmental scientist by training and a media pundit by passion. Image Magazine named her as one of 18 women to watch in 2018. Formerly Chairperson of Friends of the Earth Europe, Cara is currently a Senior Fellow in Environmental Policy at University College Dublin, Member of President Higgins Council of State and co-host of the Down To Earth slot with Ivan Yates on Newstalk FM.

Cara will share her experiences and in depth knowledge on our environment and how climate change is affecting and transforming our planet.

Wednesday 13th

November

IT Sligo Lecturers Roadshow

**Science Tricks and Treats
with Dr. Mary Heneghan
Pre School Visit event**



Wonderstruck Rocket Show

IT Sligo, Hume Hall

**1pm & 2.30pm, Schools Invitation Event
6.30pm, Public Event (All Ages)**

The Wonderstruck Rocket Show is a rip-roaring scientific romp through the history of rockets and reaction engines in general. The show is crammed with physics and chemistry and laced with a liberal dose of history.

We are pretty sure that this is one of the most spectacular shows you're going to see. It includes a full-size working Rocket Car, gun powder, the incredibly messy Krispie Rocket, a working jet engine, the Wonderstruck Bed of Doom, more gunpowder, some very loud explosions and a 3 metre fireball. We guarantee that you will be talking about this show for a long time to come!

Green Your Life

**10am - 3pm, IT Sligo Campus
1.00pm - 2.00pm, IT Sligo,
Aurivo Lecture Theatre
Public Event (All Ages)**

IT Sligo is currently addressing ecological waste issues and have teamed up with The Sligo Science Festival, Green Campus IT Sligo & a group of BB in Tourism with Event Management Students to run an event to assist students in becoming more eco aware.

'Green Your Life' will give individuals an opportunity to learn about ecological methods and how to become more eco and green in their everyday lives. During 'Green Your Life', students and visitors to IT Sligo alike will be able to meet and access suppliers & providers of eco products at their pop up shops and in turn learn more about reducing waste personally and on-campus. Check us out on social media platforms or email us greenyourlife2019@gmail.com



Magic Science – Science Magic with Ian Dunne

**10.30am & 12.30pm
Art Deco Theatre, Ballymote, Co Sligo
Schools Invitation Event**

From Robert-Houdin's use of electromagnetism and M.D. Bodie's frightening tricks with static to the more simple but still effective "cut rope restored" they can all be used to demonstrate some principle or other, if only of looking in the right place at the right time. This science show has mystery, suspense and laughs.



A Brief History of Nearly Everyone (in Ireland):

How Ancient Genomes are Revolutionizing our Understanding of the Past with Lara Cassidy

7.00pm, IT Sligo, Room A0004

Ancient DNA has uncovered three genetically distinct populations who occupied Ireland at different points in its prehistory. We now know older ancestries were replaced during two large-scale migrations at the beginning of the Neolithic and the Copper Age. This talk will introduce these three populations of Irish people - their origins, their societies, their appearance and their contribution to the modern Irish population. Lara is a postdoctoral researcher at Trinity College Dublin. She is a geneticist with an appetite for archaeology. Her current research focus is the application of palaeogenomics to the study of Irish prehistory and demography.

ASPIRE with ABBOTT

**6.00pm - 8.30pm, IT Sligo,
Aurivo Lecture Theatre
Public Event (suitable to age 12 plus)**

ASPIRE with ABBOTT is a bespoke event that brings parents, teachers and students together to learn & discover more about the career opportunities that exist within STEM disciplines. On the night, attendees will hear from guest speakers, Abbott employees and patients whose lives have been impacted by innovative healthcare technologies.



If you are interested about learning how you, your child or your students can build a pathway to third level STEM education and the amazing impact that career can have on people lives, then this is an event not to be missed!

Register today on Eventbrite by searching "Aspire with Abbott Sligo".

*Limited Spaces, Online Registration only event.

Thursday 14th November



Mad Professor

**10am Tubbercurry Community Library
Schools Invitation Event**

**12 noon & 1.45pm Ballymote
Community Library
Schools Invitation Event**

Fun and interactive science experience. Join the Mad Professor on a journey through many principles of science seeing how everyday items help shape the world of science.



Overview of Forensic Autopsy Pathology with Dr. Paul Hartel, MD

8.00pm, IT Sligo, Room A0005

An engaging talk by Dr. Paul Hartel. Dr. Hartel is Consultant Histopathologist at Sligo University Hospital and Medical Director of Clinical Laboratory Medicine with Grafton City and Sistersville General Hospitals in West Virginia, USA. He is clinical associate professor with the Department of Pulmonary and Critical Care Medicine at West Virginia University School of Medicine and is Honorary Senior Lecturer in Pathology at National University of Ireland, Galway, School of Medicine. He is active in teaching and research with numerous publications and has been invited to speak nationally and internationally, and as expert witness for Irish and US law firms. Dr. Hartel is a Diplomate of the American Board of Pathology and Fellow of the Faculty of Pathology, Royal College of Physicians in Ireland, College of American Pathologists and American Society of Clinical Pathology.

ISTA Senior Science Quiz for Second Level Schools

7.00pm, IT Sligo, Room A0006

The annual ISTA science quiz sponsored by AbbVie

The Role of Climate in Neanderthal Social and Cultural Evolution with Rory Connolly

7.00pm, IT Sligo, Room A0004

Using research focused on the application of microscopic and molecular methods to explore the role of climate in Neanderthal social and

cultural evolution, Rory will present recent results from soil micromorphology, lipid biomarker characterisation and compound specific isotope analysis at Middle Palaeolithic sites in Eastern Iberia.

Rory is a doctoral researcher working on the European Research Council funded PALEOCHAR project at the Universidad de La Laguna, Tenerife. He holds a visiting researcher position at the University of Cambridge and has worked on archaeological projects in Ireland, the Iberian Peninsula, the Canary Islands, France and the Balkans.

Friday 15th November



CSI Experience with Kieran O'Brien and Jim Gallagher

9.00am to 4.00pm, IT Sligo, Room B3201

Public Event (Age 15+)

Booking required

The CSI Experience is an informative/educational hands on practical activity, presented by 2 retired Police Crime Scene investigators with over 50 years experience between them. Participants will receive a wide variety of information on different aspects of CSI and will themselves take fingerprints, examine items for fingermarks and also develop shoe marks and recover them with gel lifters. All equipment will be supplied. Participants will experience what it's like to be a Crime Scene Investigator. <https://www.csiexperience.ie/>. For further information and bookings please contact melia.oli@itsligo.ie or book your place at **Eventbrite – maximum 24 places.**



Spectroscopy in a Suitcase – Workshop with Dr. Fiona McArdle and students on the Forensic Investigation & Analysis Programme

IT Sligo, Room B2061

Age: 14-18 years

Workshop 1: 9.30am -11.30am ;

Workshop 2: 1pm - 3pm;

Maximum 15 students per workshop.

Booking required: Contact Dr. Fiona McArdle (mcardle.fiona@itsligo.ie)

www.rsc.org/learn-chemistry/resource/res00000281/introduction-to-spectroscopy

IT Sligo Lecturers Roadshow – Dr. Kenneth Monaghan 'Mirror Therapy & Neuroplasticity' & Careers Talk

Magh Ene School Bundoran School Only Event



The Secret Life of Crows with Ricky Whelan

8.00pm, IT Sligo, Room A0005 Public Event (All Ages)

Ricky Whelan of BirdWatch Ireland will present a talk that has been a big hit with audiences

across the country. The talk covers a variety of areas from the appearance, folklore, ecology and intelligence of the crow species we find here in Ireland.



Moonwalking in Sligo Northwest Adventure Tours

Location: Slish Woods, Sligo 8.00pm

Moon walking but not like Micheal Jackson!! Join Northwest Adventure Tours for a fun and fact filled Moonlit Night Hike on Friday night. Hike under the starlit sky and learn the wonders of astronomy and what our ancestors thought about the skies. Discover how Star Wars really originated in Sligo and chill out under the stars while enjoying a warm drink and some tips from a professional night sky photographer. Be sure to bring your cameras along and pick up some new tips along the way. Northwest Adventure Tours torches will light the way through this ancient landscape that is steeped in history and astronomical connections. The hike will coincide with the tail end of Leonids Meteor Shower so you might lucky to enough to spot a few shooting stars. (Age 12 +)

Places are limited. For further information and bookings please contact melia.oli@itsligo.ie

Saturday 16th November



Vampire Science with Dr. Kathryn Harkup

**7.30pm Court number 1
Sligo Courthouse, Teeling Street, Sligo,
Public Event (Age 12+)**

Not for the nervous!

Ever wondered if there is more to Dracula than a pale complexion and difficulties shaving? Science Communicator, Chemist and Vampirologist, Dr. Kathryn Harkup will guide you through a spooky tour of the history of vampires with frightening folklore tales, blood sucking bats and sinister scientific stories of infectious disease, bacteria, viruses and decay.

**For more information on all events,
please contact:**

Oli Melia at: melia.oli@itsligo.ie

Phone: +353 87 136 3886

Science Roadshows Throughout Science Week

Science Roadshows for Children in the Northwest

Science Magic: Magic Science with Ian Dunne.

Our Sun and Other Stars with Deirdre Kelleghan.

Roadshow Events by IT Sligo in association with County Sligo LEADER Partnership Company Limited. For further information please contact kgabbidon@sligoleader.com

Mad Professor in association with Sligo County Libraries.

For further information please contact pkeane@sligococo.ie

IT Sligo Science Roadshows

Science Tricks and Treats
with Dr. Mary Heneghan.

Mirror Therapy & Neuroplasticity
with Dr. Kenneth Monaghan.

For further information please contact melia.oli@itsligo.ie

AbbVie Schools Roadshow

AbbVie employees from their manufacturing sites in Sligo are currently participating in company-supported outreach that's focused on promoting science role models currently active in the Irish workplace. The company's employees are aiming to drive greater student awareness of the rewarding career opportunities that can be unlocked by studying STEM subjects.

An AbbVie employee will visit schools and provide a brief Day in the Life presentation followed by a simple, but engaging, science experiments in their classroom.

Education Centre

Sligo Education Centre provides access to training, development and support for teachers and the wider education community. Part of our role is the delivery of a varied local programme of activities for primary and post-primary teachers. We would love to hear from you on how we can support the delivery of science in your school. Get in touch by e-mailing us at info@ecsligo.ie

The Sligo Science Trail 8th – 17th November



Whilst dropping off your map why not ask Fabio about The Science of Ice Cream – If you think about it, an ice cream is actually quite a complex and multi-faceted composition – it should be solid, yet soft, and should stay that way while melting slowly. The reasons for the delicate and mesmerising nature of ice cream is ultimately a matter of food chemistry! Drop into one of Fabio's Ice cream shops on Wine Street or Quayside shopping centre, Sligo during the Science Festival and ask our Ice Cream Scientist a question.



Science objects in shop windows Can you find them all?

IT Sligo Faculty of Science have this year teamed up with Green Campus to place Climate & Environmental Science & Technology questions, clues and objects in shop windows in Sligo City Centre.

Can you find them all and complete the trail?

Pick up a map from shops or download the map from www.itsligo.ie/scienceweek and start the hunt.

Once you complete the trail, drop your completed maps into Fabio's Ice cream shop in Quayside Shopping Centre to enter the prize winning draw for an **Oregon Home Weather Station**.

The Science Show **Project:**

This year the Sligo Science Festival launches a 3 year project to write, produce and tour a science show for families. We would like to hear from a writer or writers group who would be interested in joining the project this year to research and develop the script for the show. Engaging with scientists, performers, community groups and schools over the next 3 years will see science take to the stage from the heart of Sligo. For expressions of interest or for more information, please contact Oli melia (melia.oli@itsligo.ie)

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Sligo Science Festival Organisers Sincerely Thank...

Partners, Local Businesses and Community Groups for their support, including but not limited to:



abbvie



Riadas na hÉireann
Government of Ireland



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Building Our Green Campus

IT Sligo are working to achieve the national Green Campus Award. This is a student-led initiative, endorsed by our president, Dr. Brendan McCormack, which rewards long term commitment to reducing our environmental impact. It is an exciting time to be part of this change as we review all aspects of college life. From our teaching and research programs to our infrastructure and behavioural culture, we want to help shape our campus into a community that is responsible and accountable in respect of our natural environment and the resources that sustain us. For more information and how to get involved contact our Sustainability Officer, Fiona Britton at britton.fiona@itsligo.ie

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