



*Kildare Libraries'*

ONLINE

# SCIENCE FESTIVAL

**1st-27th November**

Free online workshops & talks for all ages  
supported by Science Foundation Ireland

This programme is funded by Science Foundation Ireland in celebration of Science Week 2021.

## 4-WEEK INTRODUCTION TO CODING

2–3 pm on Saturdays, 6th, 13th, 20th & 27th Nov

Online through Zoom / Suitable for ages 11-13 years

*Participants must be able to attend all 4 workshops*



Learn the basics of how to code in a fun and engaging way in our 4-week coding camp. These workshops will cover:

- An introduction to coding theory
- Using coordinates to draw shapes
- An introduction to colour with RGB colours
- Basic animation
- An introduction to conditional statements

*\*While the mission of this camp will be to encourage and empower girls in coding, all are welcome to participate regardless of gender.*

**Booking via Eventbrite: [CLICK HERE](#)**

## STOP MOTION CAMP WITH CREATE SCHOOL

11am-12pm on Saturday 6th and 13th November

Online through Zoom / Suitable for ages 8+

*Children must be available to attend both workshops*



Ever wanted to learn how to make stop-motion animation? Now you can! Create School will take you on a journey from having a cool idea to making it into an awesome film. All you need is a mobile device with a camera, a Lego minifigure and your imagination! This two-part course is delivered using a blended approach of online learning and offline activity.

**Booking via the Createschool website:**

**[https://online.createschool.ie/courses/brick-flicks-taster-learn-how-to-make-stop-motion-animation-with-lego?th\\_u=2b992236](https://online.createschool.ie/courses/brick-flicks-taster-learn-how-to-make-stop-motion-animation-with-lego?th_u=2b992236)**



## ICE-CREAM MAKING STEM WORKSHOP WITH ANYONE4SCIENCE

**3:30pm, Saturday 6th November**

**Online through Zoom / Suitable for ages 8-12 years**



Join Anyone4Science for a fun and informative workshop on making your very own freezer. During this workshop children will learn how to make a freezer like they did in Roman times and then test to see if it works by making their own batch of homemade ice cream. Participants will need to provide their own ingredients which can generally be found in the home. A list will be provided ahead of the workshop.

**Booking via Eventbrite: [CLICK HERE](#)**

## BUBBLES WORKSHOP WITH ANYONE4SCIENCE

**3:30pm, Saturday 13th November**

**Online through Zoom / Suitable for ages 6-10 years**



Join us for a fun and informative workshop all about bubbles! Using a few readily available household items, you will learn how to make your own bubbles.

What are bubbles? And how big can you make them? You'll also get to make your own bubble mix and your own bubble wands. Participants will need to provide their own ingredients which can generally be found in the home. A list will be provided ahead of the workshop.

**Booking via Eventbrite - [CLICK HERE](#)**



## SECRETS OF SUPERHERO SCIENCE WITH DR BARRY FITZGERALD

**Thursday November 4th, 7pm via Zoom**  
**Suitable for ages 8 – 18 years and families**



Superheroes are capable of extraordinary superhuman feats. Supergirl can effortlessly lift cars and aeroplanes; Tony Stark flies around New York City in an Iron Man suit; and Spider-Man climbs walls. But how likely is it that we'll be able to replicate these superpowers and other powers in the future?

In this talk, you will explore the science behind the superpowers of some of your favourite superheroes. You will learn about genetic mutations and the X-Men, the advanced eyesight of Hawkeye, the advanced technologies in the Iron Man suit, and real-life superpower-like technologies. Are you ready to unlock the Secrets of Superhero Science?

**Booking via Eventbrite: [CLICK HERE](#)**

## FAMILY LEGO BUILDING WORKSHOPS

**Workshop 1: 10:30am-12:30pm, Saturday 20th November**  
**Workshop 2: 2:30pm-4:30pm, Saturday 20th November**



Join Jessica Farrell from Channel 4's 'Lego Masters' for a fun family Lego workshop. Work together in teams to complete Lego challenges that will encourage creativity, imagination, communication and building skills. Each family group or 'team' can contain up to four members but must have a minimum of at least one adult and one child.

*Participants must be able to travel to Newbridge Library in advance of the workshop to pick up their free Lego pack to participate in the workshop.*

**Booking via Eventbrite:**  
**Workshop 1: [CLICK HERE](#)**  
**Workshop 2: [CLICK HERE](#)**

### THE SCIENCE OF STAR WARS WITH DR BARRY FITZGERALD

**Tuesday November 9th, 7pm-8pm**  
**Suitable for ages 8–18 years and families**



Some of the greatest science fiction stories ever told have taken place 'in a galaxy far, far away', which is of course home to the Star Wars saga. Star Wars is filled with exotic alien worlds and incredibly advanced technologies. But which technologies are scientifically accurate? And what is the science behind these technologies?

In the Science of Star Wars, you'll be taken on a scientific journey through some of the iconic gadgets, gizmos, and structures central to the adventures of Luke Skywalker, Rey, Han Solo, and others. Are you ready to journey into the Science of Star Wars?

**Booking via Eventbrite: [CLICK HERE](#)**

### AN INTRODUCTION TO THE NIGHT SKY WITH DAVID MOORE OF ASTRONOMY IRELAND

**Friday November 12th, 7pm**



Join us for an evening of looking at the stars. The galaxy that the sun is a part of is so large it takes light about 100,000 years to cross it. Earth is about 25,000 light-years from the centre of the Milky Way. Find out about the night sky and its many amazing sights in this talk which aims to help you make sense of what you see when you look up at the night.

**Booking via Eventbrite: [CLICK HERE](#)**



### **TRAILBLAZING WOMEN IN STEM: A TALK FEATURING SCIENTISTS DR NIAMH SHAW, EVELYN NATAYO AND DR SOPHIE MURRAY**

**Wednesday 17th November at 7pm**  
**Suitable for ages 8-18 years and families**



Join us for a lively and inspiring talk with three women scientists currently blazing a trail in their respective fields – Dr Niamh Shaw who is an engineer, scientist, and performer; Dr Sophie Murray who works with DIAS Dunsink Observatory and researches space weather and Evelyn Natayo who is a developer, a data scientist, an educationist and a technology consultant. The talk will focus on their love of STEM, how they got started in their careers and the exciting STEM fields in which they work.

This talk is aimed at inspiring children and young adults in STEM.

**Booking via Eventbrite: [CLICK HERE](#)**



## CRIME SCENE INVESTIGATIONS: WITH DR BRIAN GIBSON OF FORENSIC SCIENCE IRELAND

**Tuesday, 2nd November, 7pm via Zoom**



Dr. Brian Gibson, a forensic scientist with Forensic Science Ireland, will delve into the activities of the FSI and its role in the criminal justice system; look at the scientific methods behind real-life crime solving; and re-examine some famous cases both historical and more recent.

Tune in for this fascinating behind the crime scenes talk live via Zoom.

**Booking via Eventbrite: [CLICK HERE](#)**

## SUSTAINABLE LIVING WORKSHOP WITH AOIFE MUNN

**Thursday 11th November, 7pm**



This is a 2-hour workshop that helps people find easy and enjoyable ways to move towards more sustainable living. It outlines some easy switches to make, key areas that must be done like avoiding chemicals.

The course is lively and interactive and also covers three craft topics so people can make their own soap, make their own wax wraps and make their own biodegradable pots by the end of the session.

**Booking via Eventbrite: [CLICK HERE](#)**

### **REDUCE YOUR FOOD WASTE WORKSHOP WITH AOIFE MUNN**

**Tuesday 16th November, 6pm via Zoom**



This 2-hour session covers everything from meal planning, recipe swaps, preserving and growing your own food. It also looks at food storage, what best-before dates to ignore and jazzing up leftovers for a tasty packed lunch.

From composting to preserving its all covered in this workshop.

**Booking via Eventbrite: [CLICK HERE](#)**

## **RISE OF THE ROBOT REVOLUTION WITH PROFESSOR REDMOND FROM MECHATRONICS**

**Thursday 18th November, 7pm via Zoom**



Will robots take over the world? Has it already happened?

World-renowned roboticist Professor Peter Redmond takes us through the state of the art of robotics. Should we be worried or embrace the robot revolution? Which jobs will survive longest and which will go first? How far away are synthetic humans?

This thought-provoking presentation will challenge your views and make you question the motives of the technology around you.

Professor Peter Redmond is an inventor, engineer, scientist and robotics guru. His career spans the fields of real science and the world of TV and movies. On one side of this duality, he has created award-winning robots, patented avionics aircraft systems and lectured 3D Machine Vision and Augmented Reality at Trinity College Dublin. On the other side, Peter has consulted on or created amazing special effects and props for movies and TV such as Reign of Fire, King Arthur, Top Gear, Robot Wars, Scrapheap Challenge, Vikings and many more.

**Booking via Eventbrite: [CLICK HERE](#)**



**Creating  
Our Future** is a  
conversation with you  
and all the people of  
Ireland, to us tell what  
researchers in Ireland  
can do to create a  
better future.



**A National Conversation  
on Research in Ireland**

## **Why participate?**

**Whether we realise it or not,  
research has an impact on each  
of us every day.**

It shapes nearly every aspect of our lives from health and well-being, the environment and climate change, the arts, education, employment, and standard of living.

From community groups, educators and parents to students and businesses, Creating Our Future is calling on everyone to have their voice heard. Every topic is open to discussion, and every opinion matters. Ideas and inspiration are the starting point for all research, and you can now tell us what you would like researchers in Ireland to do.

## **What difference will it make?**

You can have your voice heard on what researchers in Ireland can do to create a better future by submitting your ideas on [creatingourfuture.ie](http://creatingourfuture.ie). An expert panel will collect your ideas with everyone else's and consider them. Then the panel will create a report based on the suggestions and topics or interest inspired by Creating Our Future.

**Contributing to this unique opportunity will help make sure that the ideas of the people of Ireland will be an essential part of the direction of research in Ireland. You can influence the work of researchers to answer society's needs.**

Researchers will consider the public's ideas and topics in their current research. There might also be extra government funding to deal with challenges identified by the public. The report will also influence Ireland's policy on research and innovation.

**[www.creatingourfuture.ie](http://www.creatingourfuture.ie)**