



### **FUNDERS**









































































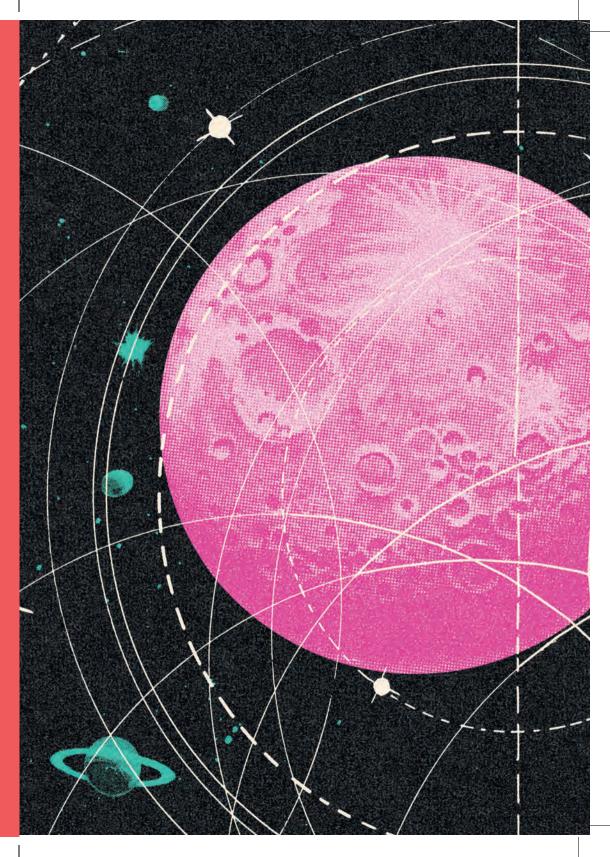




ni4kids







#### **FESTIVAL TEAM**

Director - Sarah Jones

Creative Producer - Jillian Thompson

Marketing Manager - Andrew Moore

Events & Project Officer - Stephanie Garner

Education Manager (Nerve Centre) - Rachel McDermott

Producer | Our Place In Space - Vittoria Cafolla

Festival Assistant - Claire Savage

Accounts Officer - Kathy Young

Digital Engagement Officer (Nerve Centre) -Stephen O'Hagan

Communication & PR Orry Robinson & Alana Hughes

Design - Jeffers & Sons

Website - Grace Coote

#### **FESTIVAL BOARD**

Bill Connor (Chair)

Claire Burgoyne

Tony Byrne

Liz Conlon

Alan Fitzsimmons

Judith Harvey

Jonathan Wallace

Victoria Simms

Sara Gunn-Smith

Donna Rodgers

### **GENERAL ENQUIRIES**

NI Science Festival 3rd Floor, Botanic House 1-5 Botanic Avenue, Belfast BT7 1JG

028 9162 9204

info@nisciencefestival.com

Facebook @niscifest Twitter @niscifest Instagram @niscifest

#### **BOOKING INFORMATION**

All events taking place at NISF can be booked online through the festival website at www.nisciencefestival.com

Suitability, admission and booking information are indicated in the listings.

Our official Box Office Partner for the 2023 Festival is Citizen Ticket. Most of our events do incur a small booking fee, however for every ticket purchased on our own platform, 5p will go towards planting a tree in the UK.

This way hundreds of years after an event has finished it's legacy will still be living on, absorbing CO2 and promoting local wildlife.

To further cut down on paper wastage we strongly encourage all our audience to present their ticket on their phone, tablet or electronic device.

#### **CONCESSION RATES**

Concession rates apply on selected events to those aged 16 and under, over 60s, students, the unemployed, and disabled persons unless otherwise stated. Proof of status may be required.

Please note that not all events have concession rates.

If you require assistance to enable your visit to the event, a complimentary ticket for a carer/companion is available.

#### **ACCESS**

All partnering venues aim to be as accessible as possible however a small number have restricted access. Should you or your group require information or assistance please contact us.

#### **PROGRAMME CHANGES**

Please note that all events are subject to change. Be sure to check our website or social media platforms for the most up to date information.

### **WELCOME**

Welcome to the programme for the ninth edition of the NI Science Festival and my first as Director. Thanks to the generous and continued support of our Principal Funders & Partners, we've been able to return post-Covid with our largest selection of events yet- championing our local innovators and celebrating the diversity of people working in the STEAM sectors.

Once again, we are proud to partner with Nerve Centre to bring a full programme of events to the North West, an expanded schools and educators programme as well as bringing Our Place In Space back home to Northern Ireland.

We continue to focus on the climate emergency with our SIREN23! programme, seeking to find solutions and spark new conversations and debates. We are delighted to have National Geographic as a partner for the festival, bringing explorers from across the globe to share their knowledge with audiences in Northern Ireland.

As well as festival stalwarts Prof. Jim Al-Khalili, Dr Xand Van Tulleken and Dame Jocelyn Bell Burnell, there's a sea of new faces: Dr Maggie Aderin-Pocock, Dr Anne-Marie Imafidon and Dr Rohin Francis to name a few. We have over 200 public events across Northern Ireland with talks and workshops on topics as diverse as curling, extinct animals, flies, farts, meteorites and video games. So please join us from the 16th to 26th February, to celebrate the science of you, the universe and everything in between!



#### Sarah Jones

#### **Festival Director**





The Nerve Centre is delighted to once again partner with the NI Science Festival to bring a world class programme of learning and participation to NI and to Derry and the North West.

Our partnership has grown and flourished over the last five years and we are very pleased to build on our shared work with the Our Place in Space project in this year's Festival, as we bring a packed programme of events, talks and activities that are focused around key themes of science, sustainability, and even a bit of self-care!

There's absolutely loads to choose from and we'd love to see you there as we welcome everyone to one of the friendliest and fun events of the year!

#### **Rachel McDermott**

**Education Manager, Nerve Centre** 





# FEELING THE HEAT: BELFAST HEAT AND CLIMATE CHANGE WALKING TOUR

THURSDAY 16 FEBRUARY 10AM-12PM

STARTING AT ORMEAU PARK
AND FINISHING AT CITY HALL

### Also taking place on Friday 17 February

As our climate continues to warm, the risks associated with summer heatwaves are increasing globally - and Belfast is no exception. Join us on this tour of the city as we explore the heat risk across Belfast, as mapped out by the Met Office and University of Bristol.

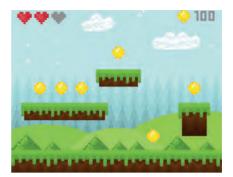
Developed in partnership with Climate Northern Ireland, the walking tour highlights both high and low-risk areas within the city, with various stopping-off points along the way to see what makes an area vulnerable or resilient. There'll also be plenty of time to answer your questions.

As the route is approximately 4 km long, we recommend wearing comfortable shoes and dressing appropriately. The topic might be hot, but the February weather probably won't be!

Age quidance: 14+

ENVIRONMENT + NATURE





# CREATE YOUR VERY OWN PLATFORM GAME IN SCRATCH 3.0

THURSDAY 16 FEBRUARY 10AM-4PM

NERVE CENTRE
DERRY / LONDONDERRY

FRFF

Have you used Scratch 3 before? Not like this you haven't!

In this workshop participants will create their very own platform game from start to finish. Participants will create everything from characters to levels and learn advanced coding techniques using Scratch 3.0.

Age guidance: 11 - 16

CREATE.
MAKE. PLAY.

### matrix.





### **SHOOT FOR** THE STARS

CAREERS EVENT

THURSDAY 16 FEBRUARY 10:30AM-11:30AM

Whether you're interested in pursuing a career in astrophysics, or have a passion for STEM subjects and aren't sure which career path to go down, this is the event for you!

Prepare to be inspired as our resident astronomers explain exactly how they got their dream jobs in the scientific field, sharing their personal experiences along with their best advice for aspiring astronomers. This is a great opportunity to gain an insight into the various roles and routes into astrophysics and STEM careers, with the chance to ask our astronomers any burning questions in a Q&A session afterwards.

Come along and you might just be inspired to shoot for the stars...

Age guidance: 10+

All under-16s must be accompanied by an adult

SPACE



### **WRIGHTBUS**

BEHIND-THE-SCENES FACTORY **TOUR 2023** 

THURSDAY 16 FEBRUARY 10:30AM - 12:30PM

Wrightbus has been leading the way in the transportation industry with innovation and unwavering commitment since 1946 and, in recent years, has raised the bar with its zero-emission fleet.

Home to the world's first hydrogen doubledeck bus, as well as the world's most efficient battery-electric double-deck bus, Wrightbus also recently introduced two brand new zero-emission products - the single-deck Hydroliner and the Electroliner. It's therefore now the only company in the UK to offer four zero-emission vehicles to the market.

Delighted to be partnering with the NI Science Festival for this event, Wrightbus invites you along for a special behind-the-scenes experience, where you'll get an overview of the company, a look at the products manufactured onsite and a tour of the factory



WRIGHT

ENGINEERING ROBOTICS

### A BEGINNER'S GUIDE TO THE SCIENCE OF COMPOST

THURSDAY 16 FEBRUARY 11AM-12PM: 1:30-2:30PM

HILLSBOROUGH CASTLE GARDENS

£17 / £13.60

#### Price includes admission to Hillsborough Castle's 100 acres of world-famous gardens.

For all budding gardeners, this is your chance to find out what makes a great compost and discover the science behind it all. Whether you know a little - or not a lot - about how to keep soil healthy, what pH you need and the texture and structure of soil and soil organisms, HCG's gardeners will fill you in.

See how they make compost and get the carbon and nitrogen ratio just right. Learn what can be composted and how to tell when it's ready to use. After a guided walk through the Walled Garden you'll then visit behind-thescenes areas, including the compost yard and gardeners' operating base.

Please come dressed for the outdoors. If wet, we'll relocate to a polytunnel!

Age quidance: 18+

ENVIRONMENT + NATURE

### NATURE-FRIENDLY FARMING IN ACTION WITH BALLYBOLEY DEXTERS

THURSDAY 16 FEBRUARY 11AM-12:30PM

ORLOCK FARM BANGOR

c 4

Join Nature-Friendly Farmer, Stephen Alexander, to hear how he's working to improve biodiversity and positively impact upon the climate through his regenerative farming practices. He'll explain the key role farming has to play in working harmoniously with nature to produce food, fibre and other products from our land and share his ongoing experiences of nature-friendly farming.

This is a great opportunity to learn more about sustainable farming and to hear first-hand how it all works on a practical level.

Age quidance: All Ages

ENVIRONMENT

THURSDAY 16 FEBRUARY — 06



### THE MARVEL OF CLEANING WATER

THURSDAY 16 FEBRUARY 11AM-11:30AM

SILENT VALLEY RESERVOIR

£ 5

#### Price includes admission to park and event

Join NI Water at the beautiful Silent Valley as we celebrate 100 years of water supply from this impressive reservoir.

Discover how the Men of Mourne constructed this magnificent structure and the fascinating story behind Watertown and the people who lived there. You'll hear all about the marvel of the water cycle as we explain how we treat 605 million litres of water a day and bring it safely to your tap. With hands-on demonstrations and displays explaining the engineering and science behind our water network, this is a chance to get a behind-the-scenes glimpse of something quite extraordinary.

Admission charge for this event will be donated to Water Aid.

Age quidance: All Ages

ENVIRONMENT + NATURE





### LIVING AUTOPSY

THURSDAY 16 FEBRUARY 7PM

CRESCENT ARTS CENTRE

£

#### This event is also on in The Playhouse, Derry / Londonderry on Friday 17 February.

This live event, presented by Histopathologists, Dr Louisa Miller and Dr Ryan Huddleston involves a 'living' dead body, played by an actor. The pathologists will take you through the process of a post-mortem examination, showing the real instruments used, explaining where incisions are made, how each organ is examined and what tests might be carried out. They'll also explain the role of pathologists and what circumstances would lead to a post-mortem being required for someone who has died.

Offering a scientifically accurate and sensitive account of this important medical examination, Living Autopsy also includes an opportunity to ask questions at the end of the demonstration, with resources from The Royal College of Pathologists for you to take home.

Age guidance: 14+

MIND + BODY





### MY YEAR OF LIVING MINDFULLY

THURSDAY 16 FEBRUARY 7PM-8:40PM

FLOWERFIELD ARTS CENTRE PORTSTEWART

£5

Overwhelmed by insomnia and an incurable autoimmune disease, Shannon Harvey needed to make a change. But when the award-winning health journalist looked for the equivalent of a 30-minute workout for her mental wellbeing, there was nothing.

Worried for the future mental health of her kids, who were growing up amid epidemics of stress, anxiety, depression and addiction, Shannon - in a world-first experiment - recruited a team of scientists to put mindful meditation to the test. What began as a self-experiment, ultimately transformed into a life-changing experience...

This documentary is filled with compelling stories, interviews with 18 leading scientists and insights that go to the heart of what it means to be human in the 21st century.

Age quidance: 13+ (PG film)





### THE PHYSIOLOGY OF RELAXATION

THURSDAY 16 FEBRUARY 7PM-8.30PM

THE PLAYHOUSE
DERRY / LONDONDERRY

c٦

In this combined talk and workshop we'll explore the physiological changes that occur within our bodies when we enter into states of deep relaxation. We'll be taking a closer look at the regulatory and restorative functions that occur within our cellular physiology, as well as within the larger organ systems of the body during periods of deep rest.

Through cultivating the art of passive selfobservation, we can see how the remarkable human system can naturally regulate to promote wellbeing and vitality within our own life experience.

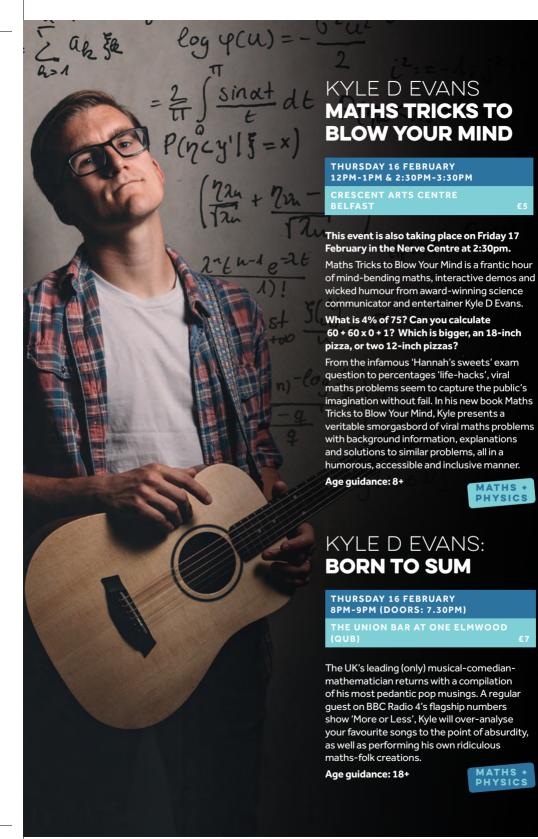
This talk will incorporate a Deep State Relaxation Workshop.

Age guidance: 18+

MIND 4



THURSDAY 16 FEBRUARY — 08





### ASTRONOMY AND POETRY WITH

DAME JOCELYN BELL BURNELL

THURSDAY 16 FEBRUARY 7:30PM

W5, BELFAST BOOKING REQUIRED

REE

In 1967 Northern Irish astrophysicist Jocelyn Bell Burnell DBE FRS discovered pulsars and revolutionised our understanding of the Universe. She taught at The Open University for 29 years and was a founding member of the Athena Swan programme, advancing the representation of women in STEM.

In this talk Burnell will explore the connection between poetry and astronomy, sharing works from some of her most beloved poets. Following the talk, local science commentator, Emer Maguire, will host an informal Q&A session to find out more about the life of the Armagh-born astrophysicist, discussing some of the challenges she has faced and how we can work together to break the biases affecting women in science.

Age guidance: 10+

SPACE



The Open Jniversity

### MID ULSTER MEGA FACTORY TOURS

THURSDAY 16 & FRIDAY 17 FEBRUARY 10AM-2PM: 1PM

MULTIPLE VENUES ACROSS

£4

Join us at various locations across Mid Ulster - one of Northern Ireland's manufacturing hubs - for a series of behind-the-scenes tours and insights into a variety of engineering processes. Whether you're interested in exploring a career in manufacturing or are simply keen to find out more about the day-to-day functioning of these industries, this event offers a rare opportunity to experience the inner workings of different companies.

With Mid Ulster an engineering hotspot, where 50% of jobs depend on manufacturing, Mid Ulster MEGA (Manufacturing I Engineering I Growth I Advancement) is delighted to offer this opportunity to meet a selection of their network companies.

Spaces are limited, so book early to avoid disappointment.

Age guidance: 8+

#### **THURSDAY 16 FEBRUARY**

**10am: Bloc Group, Magherafelt** - Visit stateof-the-art global manufacturing and design company, Bloc Group, which creates awardwinning blinds, PPE equipment and more.

**10am: Terex, Dungannon** - Get a glimpse behind-the-scenes of the world-famous materials processing machinery manufacturer, whose products are used in a variety of industries globally.





12:30pm: Greiner Packaging, Dungannon -Find out more about the packaging processes behind everything from food products like

Quality Street ® chocolates, to detergents - and how sustainability is incorporated into production.

2pm: Sperrin Metals, Magherafelt - Discover more about the UK and Ireland's only pallet racking manufacturers and how they deliver their unique range of bespoke metal storage solutions.

#### FRIDAY 17 FEBRUARY

1pm: Specialist Joinery, Maghera - Visit this award-winning family business and find out more about their bespoke joinery, metal and glass installations and how they deliver excellence in everything from manufacturing to project-planning.

ENGINEERING + ROBOTICS

### STEM FLEMING AGRI-PRODUCTS

FACTORY TOUR 2023

THURSDAY 16 FEBRUARY 10:30AM & 2PM

LEMING AGRI-PRODUCTS

- 4

Fleming Agri-Products is one of the UK and Ireland's oldest manufacturers of agricultural machinery. Join them on a factory tour, where pupils will get the opportunity to explore the company's heritage and values, as well as gaining an insight into their production processes and customer-focussed practices.

matrix.





### GRACE'S GREEN GADGETS!

THURSDAY 16 FEBRUARY
11AM & 2:30PM

THE MAC
BELFAST £7

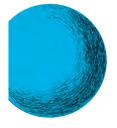
FRIDAY 17 FEBRUARY
11AM & 2:30PM

WATERSIDE THEATRE
DERRY / LONDONDERRY £7

Grace absolutely loves machines, automobiles, gadgets, gizmos and anything with wheels! You may have even seen her on her award-winning CBeebies show *Grace's Amazing Machines* where she explores some of the biggest, fastest and most amazing machines in the world.

During the 2023 NI Science Festival, Grace Webb invites families to step into her electrical workshop for a very special show where she explores some really cool Green Gadgets - they've got wheels, are loads of fun and are powered by a method that is better for the environment. Can you guess what they are? Come along and discover with Grace how her Green Gadgets work, how they move and what makes them really amazing.

ENGINEERING + ROBOTICS



### 2040 - FILM SCREENING

THURSDAY 16 FEBRUARY 7:30PM-9PM

THE PLAYHOUSE PORTRUSH

- A

2040 is a feature documentary made in 2019 (AUS cert U), structured by award-winning director, Damon Gameau, as a visual letter to his four-year-old daughter. The film portrays Gameau's journey as he explores what the future would look like by the year 2040 if we simply embraced the best solutions already available to us to improve our planet and shifted them into the mainstream.

Age guidance: All Ages

ENVIRONMENT + NATURE

### GEOLOGICAL STORY OF CARRICKFERGUS AND SOUTH-EAST ANTRIM

250 MILLION YEARS IN THE MAKING

THURSDAY 16 FEBRUARY 7PM

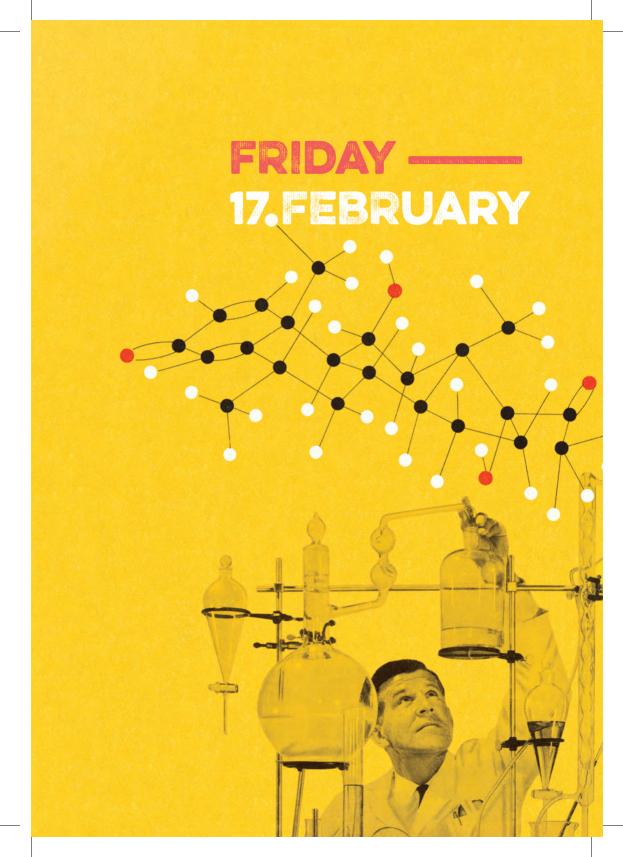
TOWN HALL

DEE

Carrickfergus Museum is delighted to host a talk by lan Enlander from the Belfast Geologists' Society to celebrate this year's NI Science Festival. The geology of Carrickfergus is representative of much of Co Antrim and beyond. This event subsequently takes us through changing environments including deserts, oceans and land covered in both lava flows and ice. The resultant rocks have been an important raw material for many local industries which played their part in the economic and human story of the area.

Age guidance: 10+

ENVIRONMENT + NATURE





### **HOW CLEAN IS YOUR PHONE?**

FRIDAY 17 FEBRUARY 10AM-11AM

ULSTER UNIVERSITY

FREE

#### Do you know what lurks on your phone ..?

Our phones are gadgets we use every day and can be the source of all sorts of germs we're not aware of. This interactive workshop will let you test just how clean (or not!) your phone is - the results may well surprise you!

At our Public Health Laboratory you can discover what germs your phone is harbouring by wiping it with a simple swab. There'll also be the chance to try cleaning methods including tissue paper, alcohol wipes, a phone-cleaning kit and a UV sanitiser box to see how effective they are at decreasing contamination.

We'll explain how phones get covered with germs and the importance of keeping them clean!

This event will take place in the Public Health Labs

MIND + BODY

Age guidance: 10 - 14





# A (VERY) SHORT HISTORY OF LIFE ON EARTH

4.6 Billion Years in 12 Chapters

### A (VERY) SHORT HISTORY OF LIFE ON EARTH

FRIDAY 17 FEBRUARY

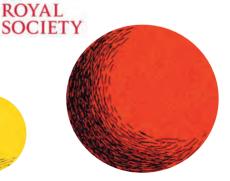
THE BLACK BOX

E5 / E3

In A (Very) Short History of Life on Earth, winner of the Royal Society Book Prize, Dr Henry Gee zips through the last 4.6 billion years with infectious enthusiasm and intellectual rigour. Drawing on the very latest scientific understanding and writing in a clear, accessible style, he tells an enlightening tale of survival and persistence that illuminates the delicate balance within which life has always existed.

Age guidance: 14+

SCIENCE COMMUNICATION



FRIDAY 17 FEBRUARY — 14

## THE SCIENCE OF DMT & AYAHUASCA

FRIDAY 17 FEBRUARY 5PM

THE MAC

£15.50 - £18.50

DMT is a psychedelic like no other... able to induce visions of alternative dimensions and communication with entities. It is also an active compound in ayahuasca: a brew from the Amazon used in rituals for healing and communication with spirits.

Join Imperial College's Dr Chris Timmermann - one of the world's leading DMT neuroscientists – as he explains how DMT is currently used in research to help us understand the brain and consciousness, while also helping us heal from depression and other mental health conditions.

Age guidance: 16+

## THE SCIENCE OF MAGIC MUSHROOMS

FRIDAY 17 FEBRUARY 7.30PM

THE MAC

£15.50 - £18.50

Magic Mushrooms are leading the current psychedelic renaissance, as they may unlock the answers to key questions with regards to understanding the mind, treating depression and increasing wellbeing. Join Dr Chris Timmermann, from the Centre for Psychedelic Research, as we explore the avenues of the psychedelic revolution in mental health and the pharmacology of psilocybin.

Age guidance: 18+

ENVIRONMENT + NATURE







# WHY ZOO BREEDING PROGRAMMES ARE IMPORTANT

FRIDAY 17 FEBRUARY 10:15AM-12:15PM

**BELFAST ZOO** 

£20

#### Also on Saturday 25 February.

Join the team at Belfast Zoo for a behindthe-scenes tour and find out about their special animal characters past and present. Discover why their genes are so important in helping to preserve some of the world's most endangered animals and learn all about how global breeding programmes work.

You'll get the answers to questions such as: "What happened to Lily the lion cub?"; "Why did you move the tigers?"; "Where did the Andean bear cub qo?" and much more!

Participants are advised this is an outdoors walking tour. Suitable footwear and clothing should be worn.

Age guidance: 10+

ENVIRONMENT + NATURE

# FROM GREY WOLVES TO GREY SQUIRRELS

FRIDAY 17 FEBRUARY 11AM-12PM & 3PM-4PM

ULSTER MUSEUM

REF

Enjoy a guided tour through Irish history from the Stone Age to the present day, with opportunities to get hands-on with some specimens from the Ulster Museum's handling collection.

This insightful event will tell the story of the island of Ireland through the animals and plants that live here - from bears, beavers and cranes, to pine trees and grey squirrels. It will also focus on the colonisation, migrations and shifting land use that shaped the Irish landscape.

Age guidance: All Ages (Children must be

accompanied by an adult)

HISTORY + SOCIETY

### ASTROPARK TOURS

FRIDAY 17 FEBRUARY 11:45AM, 12:45PM & 1:45PM

ARMAGH PLANETARIUM £5 ADUL

Do you love the great outdoors? Join an expert guide from the Armagh Planetarium on a walking tour of their Astropark. Walk through the Solar System and beyond to the edges of the Universe and discover the many amazing things in-between. Get the answers to your spectacular space questions and learn more about the amazing world around us!

Age guidance: All Ages

SPACE



# SPARK YOUR INTEREST IN THE ART OF BLACKSMITHING

FRIDAY 17 FEBRUARY 10AM, 11:30AM, 1:30PM & 3PM

PATTERSON'S SPADE MILL

£20

What to try something new and have a go at combining history and craftsmanship all whilst learning a new skill? During this hour-long introduction you'll learn traditional forging and blacksmithing techniques, creating something bespoke such as a poker or bottle opener, under the expert guidance of our National Trust blacksmith team.

Come prepared and wear clothes you don't mind getting dirty and sensible footwear, preferably work boots or shoes. Bring a water bottle with you as Blacksmithing is hot work.

Age guidance: 14+

ART + SCIENCE

Image Credit - ©National Trust/Paul Moane





### THE CLEVER CELTS!

FRIDAY 17 FEBRUARY 10:30AM, 12:30PM & 2PM (<u>90 MINS)</u>

NAVAN CENTRE & FORT ARMAGH £10 ADULT £6.50 CHILD £29.50 FAMIL

Despite living at Navan Fort around 2,000 years ago, the Celts were very advanced in their scientific knowledge! Join us on a visit to our Iron Age dwelling for a Living History experience, where the clan will explain the different plants they would have used for medicinal purposes, such as the bark of willow for pain relief, nettles as an anti-inflammatory and chamomile for calming. Learn how the clan preserved their food in a time long before fridges and freezers and how to light a fire without using a match!

After your visit to the dwelling, walk in the footsteps of warriors on a guided tour to Navan Fort, where you'll learn about the significant archaeological discoveries at the ancient capital of Ulster and seat of Kings.

Age guidance: All Ages.



### BAKINEERING: FROM A - B

FRIDAY 17 FEBRUARY 12PM-1PM

THE MAC

£ 7

SATURDAY 18 FEBRUARY 12PM-1PM

THE PLAYHOUSE

In this brand-new family show join creator, aerospace engineer and judge of Netflix's Baking Impossible, Andrew Smyth, on an edible exploration of the engineering that helps us travel around the world. The Great British Bake Off finalist will use interactive 'bakineering' demos to show the engineering principles that keep us safely travelling via road, sea and sky. From the secrets of edible boats, to the key to a deliciously survivable crash test, this tasty

#### About

Andrew is an aerospace engineer, baker, presenter and producer from Northern Ireland. He gained a nationwide following for his outrageously engineered creations when he reached the final of *The Great British Bake Off* in 2016. Since then, he's created the art of 'bakineering', toured live shows around the UK and Ireland and produced and starred in an original Netflix series, *Baking Impossible*, released in October 2021. He divides his time between researching future aircraft at Rolls-Royce, live presenting and engineering broadcasting, including as an expert contributor on Discovery Science, the BBC and History Channel.

Age guidance: 8+

FOOD FOR THOUGHT





### PAINTING WITH LIGHT

FRIDAY 17 FEBRUARY 10AM-4PM

NERVE CENTRE
DERRY / LONDONDERRY

FREE

Painting with Light is a fantastic photography technique where you illuminate parts of your scene with a torch or other light to add emphasis and colour to certain objects during a long exposure. In this workshop, you'll learn all about photography and get a chance to experiment with light painting, with the opportunity to create one-of-a-kind, unique and creative images. These will then be printed and transferred onto T-shirts at the end of the workshop.

Age guidance: 8 - 14 (Children must be accompanied by an adult)







### **IDEA JAM**

FRIDAY 17 FEBRUARY 10AM-5PM

VENUE: CHECK
WEBSITE FOR DETAILS

60

Ideas. We've all got 'em, rattling around in our busy, distracted heads. Perhaps you're harbouring the next big thing ... Maybe it's always been there, but it's hiding behind to-do lists, bank statements and status updates.

It's finally time to tip that idea out of your head and onto the page so you can actually do something with it. Idea Jam is a chance for creators, new and old, to clear all distractions and finally sculpt that secret, nebulous idea you've been chipping away at for years into one that's ready to act on... and maybe even figure out how to take it to the next step. If you've never done this sort of thing before, there will be professional artists, developers and industry experts on-hand to help transfer your concept from brain to pitch. There will be advice in the form of breakout sessions and discussions about how to pitch your idea and take it further after the day. Lunch Included.

Age guidance: 11+











### **WILD ABOUT...**

KILBRONEY
PARK, DELAMONT
COUNTRY PARK,
SLIEVE GULLION
FOREST PARK

FRIDAY 17 FEBRUARY 1PM-3PM

FRIDAY 17 FEBRUARY (KILBRONEY);
SATURDAY 18 FEBRUARY (DELAMONT);
SUNDAY 26 FEBRUARY
(SLIEVE GULLION) FRE

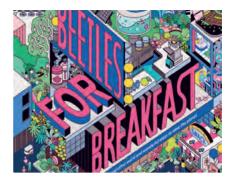
Are you up for some wildlife and forest challenges? Join our team of nature buffs for art, games and fun activities that will show you all you need to know about Kilbroney Park, Delamont Country Park and Slieve Gullion Forest Park.

If the weather favours us, you can enjoy a scavenger hunt around the parks looking for wildlife and geology. Alternatively, we'll have some indoor arts and crafts fun if conditions are a little less clement!

Please note, this event has limited numbers of between 40-50 and is on a first-come first-served basis. Please wear suitable clothing and footwear for an outdoor event.

Age guidance: All Ages

ENVIRONMENT + NATURE



## MADELEINE FINLAY BEETLES FOR BREAKFAST

FRIDAY 17 FEBRUARY 2PM

CRESCENT ARTS CENTRE

E A

This event is also taking place on Saturday 18 February in The Playhouse, Derry/Londonderry.

Imagine doing your homework with a pen that writes with exhaust fume ink. Or using cutlery made from potatoes... What about drinking cockroach milk or, as the title of science writer Madeleine Finlay's new book suggests – having Beetles for Breakfast?

Shortlisted for the Royal Society Young People's Book Prize 2022, Madeleine Finlay's colourful and compelling book explores all sorts of exciting inventions and ideas which could make our future more eco-friendly and sooner than you might think.

From how we eat and play, to home and school life, Beetles for Breakfast is packed full of cool facts and fun infographics that are sure to inspire young minds. Join Madeleine to discover weird and wonderful ways to save the planet, and try some bugs for yourself!

Age guidance: 8+

SCIENCE COMMUNICATION

FRIDAY 17 FEBRUARY — 20

### DARK SKIES AND NIGHT OWLS

FRIDAY 17 - SUNDAY 19 FEBRUARY 7PM : VARIOUS TIMES

MANOR HOUSE/ KEBBLE COTTAGE/
RICHARD BRANSON CENTRE FRE

### Non-residents must book accommodation and ferry tickets in advance

Get acquainted with the night skies from Rathlin Island in this weekend of telescopes and tales... Led by Terry Mosely and his colleagues from the Irish Astronomical Society, this is your chance to explore the science and geography of the stars above you – with alternative indoor presentations and exhibitions to enjoy in the event of bad weather.

Children and adults alike will enjoy an introduction to Jill Tomlinson's captivating story of Plop, *The Owl Who Was Afraid of the Dark*, with readings each evening and on Sunday morning, along with a closing craft activity. Weather-permitting, each evening will also include the opportunity for a night walk with our experts to explore the wildlife which isn't afraid of the dark and discover how the stars and the planets aid their navigation.

With all this and more to enjoy, please visit our website for the full listing of events. Delivered in partnership with the Rathlin Development & Community Association.

Age guidance: All Ages

ART + SCIENCE



### RORY FRIERS BEHIND THE SOUND

FRIDAY 17 FEBRUARY 7PM-8PM

SARC SONIC LAB
QUEEN'S UNIVERSITY BELFAST

Join Northern Irish composer, producer and multi-instrumentalist, Rory Friers, at QUB's Sonic Lab for this special behind-the-scenes preview event ahead of his *All Around Us* performance on Saturday 18 February.

Enjoy unique insights into the various composition techniques Rory developed while collaborating with SARC's innovative engineers for this exciting project and discover more about the inner workings of Belfast's world-famous Sonic Laboratory.

An unmissable event for audio enthusiasts, Rory and SARC engineers will explain how their creative partnership developed to produce a spine-tingling immersive performance piece which draws on the outer limits of immersive sound and Dolby Atmos Surround. There'll also be the chance to ask questions, or you can simply sit back and enjoy some of the compositions created bespoke for this amazing space.

Age guidance: 14+







## ROHIN FRANCIS HUMAN BODY: DESIGN DISASTER

FRIDAY 17 FEBRUARY 8PM (DOORS 7:30PM)

THE BLACK BOX BELFAST

F Q

Our bodies can do a lot. But they are also spectacularly daft. From nerves that seem to get lost on the way to their destination, pointless pockets of tissue that are hell-bent on doing us harm and spines that suggest walking on two legs could well have been our worst decision to date...

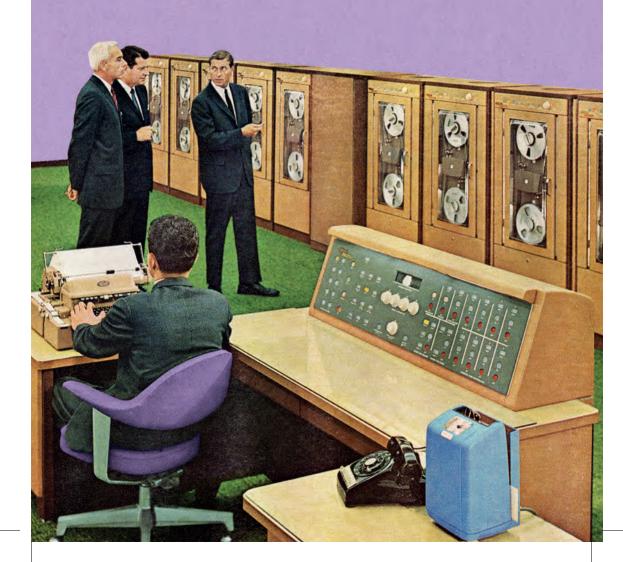
Cardiologist and comedian, Dr Rohin Francis, will explore just some of the myriad ways in which there's nothing intelligent about our design.

Age guidance: 18+

MIND + BODY



# SATURDAY --18 FEBRUARY



## INTERNATIONAL SYNTH DESIGN HACKATHON

SATURDAY 18 - TUESDAY 21 FEBRUARY 9AM - 6PM

SARC, QUEEN'S UNIVERSITY BELFAST

FREE

Design and build your very own sound experiences in this unique collaborative event run in conjunction with Belfast-based sound art collective, Tone Burst. Using the very latest technology, you'll be free to explore your creative ideas, with help from the team as required. All materials and equipment will be provided and no technical experience is needed, although a passion for sound and music-making is, of course, essential!

Supported by Cycling 74, Electrosmith and Synthux Academy, this event will give you the run-down on a range of cutting-edge digital fabrication technologies, including 3D printers and laser-cutting machines. Come along and see what sounds emerge!

Age quidance: 18+



### A BRUSH WITH TECHNOLOGY

SATURDAY 18 FEBRUARY 10AM & 12PM

THE MAC

£7

This event will also take place at The MAC on Sunday 19 February.

What happens when art & science collide?

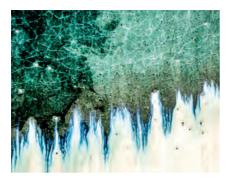
Find out in this fun interactive workshop, led by a YAA (Young At Art) visual artist! Be inspired by the MAC's exhibitions and then create your very own digital masterpiece on an iPad.

Full instructions and equipment will be provided.

Age guidance: 8+







### INTRODUCTION TO GLAZE CHEMISTRY

SATURDAY 18 FEBRUARY 10AM-1PM

FLOWERFIELD ARTS CENTRE PORTSTEWART

£48

#### Price includes all materials

Why do metal oxides and stains react differently with the same glaze? And how exactly do changes in firing temperatures and atmospheres in the kiln affect the glazes?

Join Potter, Fiona Shannon, as she explores the world of glaze chemistry in this one-off masterclass at Flowerfield Arts Centre Portstewart. In this masterclass we'll answer these questions as well as combining various materials to mix up a glaze together from scratch, playing with oxides and other colorants to explore how they will react to glaze. You'll also complete a number of small test tiles which will be fired to be collected at a later date.

This masterclass will benefit art teachers, art students and amateur potters. Please bring an apron and wear clothes that you don't mind getting a little messy.

Age guidance: 18+

ART + SCIENCE



### BRICKS 4 KIDZ WORKSHOPS

SATURDAY 18 FEBRUARY VARIOUS TIMES

ARMAGH PLANETARIUM

£6.50

#### Event also taking place on Sunday 19 February

Join Bricks 4 Kidz at the Planetarium for some fun space-themed brick-building workshops, where kids can make their very own cosmic creations out of colourful LEGO® bricks. Let your imagination run wild and be inspired by everything from the planets and stars to astronomers, rockets and everything in between.

A great way to have some fun with science, the Bricks 4 Kidz workshops are always popular with the kids and help build confidence and creativity as well as developing problemsolving skills and critical thinking.

Age quidance: 6-10

CREATE.
MAKE. PLAY.

### LIGHT, MATTER, ACTION!

SATURDAY 18 FEBRUARY 10AM-4PM

ULSTER MUSEUM BELFAST

FREE

### This event will also take place on Sunday 19 February

Meet the physicists from Queen's University Belfast at the Light, Matter, Action! stall and discover the wonder of light and matter.

Find out how physicists explore what everything is made of, how the universe came to be and how we can work with light and matter to change the world. There'll be wonderous demonstrations and the chance to speak with real physicists to hear all about their career journeys and how physics really is for everyone.

Age quidance: 6+

MATHS + PHYSICS





### **MARITIME MILE SCIENCE OF PHOTOGRAPHY TOUR**

**SATURDAY 18 FEBRUARY** 10:30AM-12PM

**MARITIME MILE - MEETING** POINT AT SOUNDYARD, BELFAST

Are you a photographer on a never-ending quest to find that perfect shot? Then join us on this interactive photo tour as part of the NI Science Festival 2023.

The Maritime Mile is jam-packed full of history and sights to see. A mixture of grit and glamour, it's definitely one to add to your #NISF23 itinerary.

This 90-minute photo tour will take you off the beaten track, capturing some of Belfast's heritage giants! The Maritime Mile shoot locations include: SoundYard, Belfast Buoys, Hamilton Dock and SS Nomadic - not forgetting some of the best viewpoints along Belfast's iconic waterfront.

Age guidance: 14+

CREATE. MAKE. PLAY



### HISTORICAL **WRECK TOUR**

SATURDAY 18 FEBRUARY 11AM-12:30PM

**BALLYCASTLE HARBOUR** 

£70

Join us on a unique seafaring adventure exploring the maritime history of the many wrecks scattered along the beautiful Causeway Coast. Once on board our vessel, we'll take you for a fascinating journey around Rathlin Island and the surrounding coastline, visiting the sites of many of our famous

At each location our guides will enthral you with tales of treasure, tragedy, lost loves, battles and destruction. From the modern wrecks of the World Wars to the whiskeysmuggling ships and, of course, the treasure and history of the Spanish Armada galleass Girona, there's plenty to keep you entertained!

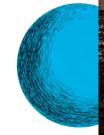
Age guidance: All Ages







**SATURDAY 18 FEBRUARY** 26



### POND-DIPPING IN CLADAGH GLEN

SATURDAY 18 FEBRUARY 10AM-11AM

CLADAGH GLEN FERMANAGH

E 5

Join Geopark Guide lan to uncover the secrets of the invertebrates and other creatures living in Claddagh Glen. Using our specialist equipment, lan will help you to catch and identify different critters in the river and on land. Perfect for all those nature-lovers and mini-scientists!

Age guidance: All Ages

ENVIRONMENT + NATURE

### PADDLE BACK IN TIME - THE MONKS, THE VIKINGS AND THE SMUGGLERS OF STRANGFORD LOUGH

SATURDAY 18 FEBRUARY 10AM-1PM

STRANGFORD LOUGH
ACTIVITY CENTRE, KILLINCHY

£50

This award-winning event (National Heritage Week 2021) will take you on a kayak adventure to Mahee Island, following a traditional smuggling route undertaken by Daft Eddie and the Merry Hearts.

In Whiterock, you'll be kitted out with a wetsuit and buoyancy aid before being briefed by local guide and kayak instructor, Rory Martin. At Mahee Island Dr Sarah Baccianti – researcher in literature and history of medieval Scandinavia – will then guide you through the ruins of the monastic site of Nendrum and explain all about the Vikings of Strangford Lough. The event will culminate with Dr Frances Kane – linguist and researcher in the origins of Northern Ireland's place names – who will reveal the stories behind local place names.

Age guidance: 18+

+ SOCIETY

### RORY FRIERS **ALL AROUND US**

SATURDAY 18 FEBRUARY 7PM-8:30PM

SARC SONIC LAB,
QUEEN'S UNIVERSITY BELFAST

£15

A one-off, intimate concert exploring the outer limits of immersive sound...

Following on from the success of Rory's 2022 audio-visual installation, *All Together; All Alone*, at Belfast's W5 – which looked at the themes of coping and absence – Rory continues to explore his poignant sound journey with *All Around Us*.

Joined by renowned Belfast musicians, Arco String Quartet and celebrated Donegal pianist, producer and composer, Michael Keeney, this special live performance will subsequently take you on a journey through a soundscape rooted in re-emergence.

Shaking off the poignancy of absence, this is an ambitious adventure into the outer limits of immersive audio and Dolby Atmos Surround which brings us back into the vibrancy of life beyond lockdown. A unique collaboration with the incredible engineers at QUB's Sonic Arts Research Centre, this is an experience to be savoured...

Age guidance: 14+







### SCIENCE STARZ: FIZZY FUN LAB

ACIDS AND ALKALIS!

SATURDAY 18 FEBRUARY 11AM (HOLYWOOD ARCHES) 1:30PM (COLIN GLEN)

HOLYWOOD ARCHES & COLIN GLEN LIBRARIES

FREE

Get your goggles and lab coats on and join Science Starz in the Fizzy Fun Lab at Holywood Arches and Colin Glen Libraries for an exciting experiment with Acids and Alkalis. This is a great chance for kids to feel like a real scientist as they use pipettes and beakers in this hands-on interactive session.

Mix vinegar with cabbage juice to see when acid is present, then add in some sodium bicarbonate to create a second chemical reaction as the acids and alkalis mix. This fun STEM event is always a popular one and it might even help inspire the next generation of young scientists...

Age guidance: 3-10

CREATE.
MAKE. PLAY.







## CYANOTYPE FAMILY WORKSHOP

SATURDAY 18 FEBRUARY 10:30AM; 12PM; 1:45PM & 3PM

HILLSBOROUGH CASTLE & GARDENS

£10 / £5

### Free with a Hillsborough Castle Gardens Ticket.

Discover the magical technique of early photography, as used by the pioneering 19th Century botanical artist, photographer and scientist, Anna Atkins - the first person to illustrate a book with photographic images.

In this fun workshop for families, you'll get the chance to combine art and science by using plants from the Hillsborough Castle Gardens to make your very own cyanotype print to take home. Just like Anna, you can have fun creating photographic blueprints while also finding out more about the science behind the artistic process.

Places are strictly limited and tickets will be given out 30 minutes before each session begins. Please queue at the blackboard in the stable yard.

Age guidance: 7+. All children must be accompanied by an adult.

ART + SCIENCE

### MASS OF ROOT **SATURDAY 18 FEBRUARY** 11AM-4PM **ULSTER TRANSPORT MUSEUM CULTRA, HOLYWOOD GENERAL ADMISSION TO ULSTER** TRANSPORT MUSEUM Join the scientists and natural science curators from National Museums NI for a day at the Ulster Transport Museum as we explore the natural world through the microscope. Taking a different approach to looking at how we engage with the environment and technology, this unique event includes talks and exhibitions from various experts in the field of STEAM. You can also enjoy a range of performances and demonstrations from local artists and businesses throughout the day. Join us as we investigate the impact we're having on our planet and uncover the wonders of our natural environment! Age quidance: All Ages **ENVIRONMENT** NATURE NATIONAL MUSEUMS NI **SATURDAY 18 FEBRUARY**



### **SOIL** A TIME CAPSULE

SATURDAY 18 FEBRUARY 1:30PM-3:30PM

SCHOOL OF BIOLOGICAL SCIENCES
QUEEN'S UNIVERSITY

Join environmentalist and bio-artist, Jasmin Märker, as she uncovers the stories which lie buried beneath the ground in this fun, interactive workshop.

Often dismissed as dirt, soil is actually a time capsule, quietly archiving human activity throughout the ages, as we leave the imprint of our lives upon it. In this workshop, you'll subsequently learn all about the secrets of soil and get the chance to take part in some handson art-science experiments, as you explore how the human and natural worlds collide...

#### **Funded by Belfast City Council**

Age guidance: 14+









### SOUNDING BELFAST DURING COVID-19

(GUIDED TOUR)

SATURDAY 18 FEBRUARY 12PM-1:30PM

MEETING POINT ALBERT MEMORIAL CLOCK, BELFAST

£5

#### Ending at Belfast City Hall.

During the global pandemic, countries and cities were transformed into literal ghost towns. This project subsequently investigates how the city sounds without the presence of humans or the expected level of human occupancy in popular parts of Belfast's public spaces, using field recordings to document and chronologically experience the differences imposed by Covid-19 restrictions.

We'll walk to some of these locations, giving you the chance to experience a unique historical viewpoint, to hear how spaces changed and to reflect upon the present sounds that make up our urban spaces.

Accessible via Echoes (GPS soundwalks - Available on the Apple Store and Google Playstore).

Event may take place on another date if weather is unfavourable.

Age guidance: 18+







### IT'S ALL IN THE MIND! HOW YOUR THINKING AFFECTS YOUR LIFE

SATURDAY 18 FEBRUARY
10AM-4.30PM

FLOWERFIELD ARTS CENTRE
PORTSTEWART £25

Dr Maria Kee is a former consultant Psychiatrist and Cognitive Behaviour Therapist who left the NHS after more than 20 years to focus on studying and delivering training in the field of positive psychology. During lockdown, Maria delved into the world of neuroscience, discovering how we can develop new neural connections at any age and use our mind to change our brain.

This one-day session will be very interactive and fun, with Maria sharing techniques from cognitive behaviour therapy. You'll also get insights from the world of positive psychology and neuroscience to help you understand yourself better and inspire you to live more fully.

Maria also taught aerobics and Lindy Hop dancing. You have been warned!

Age guidance: 18+

MIND + BODY



### THE WHOLE SCOPE OF SKY

UNDER-REPRESENTED VOICES IN SCIENCE WRITING

SATURDAY 18 FEBRUARY 2PM - 3PM

ULSTER MUSEUM BELFAST

FREE

In this event, the Institute of Physics' inaugural Writer in Residence, Chandrika Narayanan-Mohan, will bring together various writers to talk about science writing across genres and disciplines. From science fiction and poetry, to science communication, they'll discuss underrepresentation in their respective fields and what we can do to encourage diversity in their sectors.

Age guidance: 14+







SATURDAY 18 FEBRUARY 32



### THE SCIENCE BEHIND CURLING:

THROWING ROCKS AT HOUSES

SATURDAY 18 FEBRUARY 7PM - 8PM

W5 LIFE BELFAST

FREE

Find out all about the science and story of curling at this fun, interactive event, where you'll get the chance to meet representatives from the All-Ireland National Curling Team, as well as giving it a go yourself.

Originally an outdoor winter sport, curling - which is played on ice - now takes place in rinks and arenas around the world. A key fixture in the Winter Olympics, the sport was actually invented in Scotland, with the stones used in curling made of granite from the island of Ailsa Craig.

Why not come along to find out more about this fascinating sport, enjoy our floor-curling demo and chat to the professionals?

Age guidance: All Ages

SCIENCE COMMUNICATION



### SCIENCE WITH DR XAND

SATURDAY 18 FEBRUARY 12PM & 3PM

THE MAC BELFAST

£14 / £12

Dr Xand van Tulleken from the hit CBBC children's television series, *Operation Ouch*, returns to NI Science Festival for another family-friendly show packed with stunts, crazy experiments and amazing facts!

The good doctor will explore the fascinating world of human biology and show you the awesome things your body can do! He'll even be on hand to answer all your questions.

Age guidance: 4+

MIND +



### **JAM 4**

SATURDAY 18 FEBRUARY 12PM-1PM

SARC, QUEEN'S UNIVERSITY BELFAST

FREE

Visit JAM 4's (Junior Academy of Music at Queen's University Belfast) Open Sound Lab for the chance to get some hands-on experience of a range of technologies - from Ableton link, to DJ decks and electronic instruments. With no need to book, this is a casual drop-in event, so come along at any time between 12pm and 1pm to see what's on offer.

As well as having the opportunity to interact with the technology at our various stations, the session will also give a little taster of the JAM 4 experience.

Age guidance: All Ages

CREATE.
MAKE. PLAY.





### LIFE IN A CAR PARK/SAOL SA CHARRCHLÓS

SATURDAY 18 & SUNDAY19 FEBRUARY FROM 12PM

ON-STREET PARKING I 139- 127 ROYAL AVENUE, BELFAST

12pm-4pm for transformed parking spaces. Guided walks: 2pm - 3pm each day, starting from the parking spaces.

Admission: Free admission to transformed parking spaces. £5 for guided walk.

Can you find life and joy in a car park...?

Come along and see parking spaces in a new light - transformed into wild and wonderful places for everyone to enjoy! You can also join nature conservationist, Aoife de Bhál, for a guided walk each day and explore the bizarre world of the creatures living in our cities.

### This is a bilingual (Irish/English) event but no knowledge of Irish is needed.

An féidir leat beatha agus áthas a aimsú i gcarrchlós?

Breathnaigh ar spásanna páirceála agus iad athraithe ina háiteanna fiáine agus iontacha. Fáilte roimh chách a scíth a ligean anseo!

Bígí le hAoife de Bhál ar 2 i.n. gach lá faoi choinne siúilóid treoraithe dírithe ar saol aisteach na neach a bhfuil lonnaithe inár gcathracha.

+ NATURE

Age guidance: 10+



# AN ANATOMICAL WORKSHOP ON RESPIRATION AND DEGLUTITION

(BREATHING AND SWALLOWING)

SATURDAY 18 FEBRUARY 11AM-1PM

MEDICAL BIOLOGY CENTRE
QUEEN'S UNIVERSITY BELFAST

EDEE

Discover the science behind respiration and deglutition - more commonly known as breathing and swallowing - in this fun, interactive workshop. Using a combination of 3D animation and advanced computer graphics, we'll show you just how these two fascinating processes - which are happening constantly in our bodies - operate.

Our expert will give a demonstration of the four stages of swallowing and the mechanism of breathing, as well as providing insights into the effect of common conditions like asthma on respiration. We'll also explain how some diseases can cause swallowing difficulties (dysphagia) and there'll be a chance to participate in interactive learning stations afterwards.

Age guidance: All Ages





### QUEEN'S BIOLOGY SHOWCASE

SATURDAY 18 FEBRUARY 10:30AM-1:30PM

QUB SCHOOL OF BIOLOGICAL SCIENCES

FREE

Understanding and protecting the world around us is the defining goal of our time.

To achieve this, we need to explore the weird and wonderful biodiversity of the Earth, produce safe and nutritious food sustainably and learn how to fight diseases.

The biological sciences play a key role in these societal goals, so come along and meet the scientists from the Queen's School of Biological Sciences, whose job is to explore the natural world and how we can take better care of it.

Which species are at risk of extinction and why? How can we feed ourselves more sustainably? Why does climate change mean that diseases are on the move? Come and explore all of these things and more through our talks and interactive exhibits!

Age guidance: 8+

QUEEN'S UNIVERSITY





### UNDERWATER ROBOTS

SATURDAY 18 FEBRUARY

PORTRUSH HARBOUR (OUTSIDE YACHT CLUB)

FREE

Join the research team in Portrush for a Remotely Operated Vehicle dive that will reveal some of the hidden wonders of our underwater world...

Used for everything from climate research to mapping and collecting samples, underwater robots can access challenging and hazardous environments like deep water and underneath ice, doing things we just can't manage on our own. Gaining access to these areas is vital to help us better understand the way our oceans work, so underwater robots are instrumental tools we can use to protect our world.

Following the success of last year, this event showcases a host of underwater robots from various collaborative partners in Ireland, with the chance to connect with researchers in this exciting area of marine science and robotics.

Age guidance: All Ages

ENVIRONMENT + NATURE

SATURDAY 18 FEBRUARY — 36



### BIOMEDICAL RESEARCH IN ACTION!

SATURDAY 18 FEBRUARY 1PM-5PM

WELLCOME-WOLFSON INSTITUTE
QUEEN'S UNIVERSITY BELFAST FREE

Become a scientist for the afternoon at the Wellcome-Wolfson Institute for Experimental Medicine (WWIEM) and enjoy a range of demonstrations and interactive research activities!

Our mission is to understand the mechanisms of disease and use that understanding to develop new tests and treatments to improve patients' lives. This is a great chance to find out all about the work of local scientists who are leading the way in research into vision and vascular disease, respiratory medicine and the immune system and its interactions with microbes.

Meanwhile, if you're currently considering your career options then why not join our 'So You Want to be a Biomedical Scientist?' event. This will include a tour of the WWIEM facilities, career stories from our researchers and an opportunity to chat with experts about the options available at QUB.

Age quidiance: All Ages







# SO YOU WANT TO BE A BIOMEDICAL SCIENTIST?

SATURDAY 18 FEBRUARY 1:30PM & 3PM

WELLCOME-WOLFSON INSTITUTE QUEEN'S UNIVERSITY BELFAST

Find out what it's like to be a biomedical scientist as researchers including a PhD student, postdoctoral fellow and principal investigator talk about their work and various career paths. There'll be a chance to ask them any questions, while various teaching staff will also be on hand to explain the opportunities available within QUB.

We'll then split into subgroups and go for a tour of the Wellcome-Wolfson Institute for Experimental Medicine (WWIEM) building, including the microscopy facility. The tours will then return to the open event in the WWIEM atrium, where Biomedical Research in Action will be on display from 1pm-5pm.

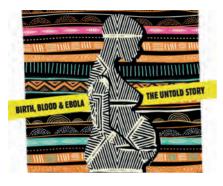
Age guidiance: 12+



£2







### BENJAMIN BLACK BELLY WOMAN:

### BIRTH, BLOOD & EBOLA

SATURDAY 18 FEBRUARY
2PM-3PM
THE MAC
BELFAST £5

May, 2014. Sierra Leone is ranked the country with the highest death rate of pregnant women in the world. The same month, Ebola crosses in from neighbouring Guinea. Arriving a few weeks later, Dr Benjamin Black finds himself at the centre of an exponential Ebola outbreak. From impossible decisions on the maternity ward to moral dilemmas at the Ebola Treatment Centres, one mistake, one error of judgement, could spell disaster.

An eye-opening work of reportage and advocacy, Belly Woman chronicles the inside journey through an unfolding global health crisis and the struggle to save the lives of young mothers. As Black reckons with the demons of the past, he must try to learn the lessons for a different, more resilient, future.

Age guidance: 14+

MIND + BODY



### **DIGITAL TWINS**WHERE AI MEETS IOT

SATURDAY 18 FEBRUARY 2PM-3:30PM

ULSTER UNIVERSITY BELFAST

FREE

Artificial Intelligence (AI) and the Internet of Things (IoT) are enabling our world to be replicated digitally – creating Digital Twins of our cities, cars, homes and even ourselves. A Digital Twin is an exact replica of something in the physical world, with a unique aim - to help improve the real-life version.

This workshop will introduce the emerging field of Digital Twins, showcasing cutting-edge technologies and concepts at the intersection of IoT and AI. You'll have an opportunity to get hands-on with these technologies through a number of interactive demonstrations, covering topics such as sensor technologies, machine vision, robotics, virtual/ augmented reality, chatbots and simulation.

Age guidance: 10+



TECH +

SATURDAY 18 FEBRUARY — 38

### THE SNAIL & THE WHALE

FILM SCREENING & INTERACTIVE COASTAL **ADVENTURF!** 

SATURDAY 18 FEBRUARY SESSION ONE: FILM 11AM -11:30AM; PORTRUSH COASTAL ZONE: 11.45AM

– 12.30PM. **SESSION TWO:** FILM 12:30PM – 1PM; PORTRUSH COASTAL ZONE: 1:15PM

THE PLAYHOUSE **PORTRUSH** 

£5

Price includes film and entry to the Portrush Coastal Zone. Join us for a BIG screen adventure at the newly refurbished Playhouse in Portrush as we follow a tiny snail on an amazing journey on the tail of a huge humpback whale. Based on the picture book written by Julia Donaldson and illustrated by Axel Scheffler, this is a joyous, empowering story about the natural wonders of the world and how, no matter how small you are, you can make a difference.

To coincide with this special screening, NI Science Festival has organised a visit to the Portrush Coastal Zone, just a short walk from the cinema. With discovery pools and tanks, along with displays and activities, there's lots to explore and plenty to learn about Northern Ireland's marine wildlife and heritage.

Age quidance: 3-7 (Children must be accompanied by a parent/guardian)





### SPRINGTIME NIGHT SKY OBSERVING



#### This event is also taking place on Sunday 19 February

Pop by the OM Observatory to see what our astronomers are up to as part of our springtime night sky observation events. Weather permitting, you'll see live astronomical imaging via our innovative Meade LX600 and camera system, while there'll also be the chance to get hands-on with our range of refractor telescopes and do some eyepiece observing.

If you'd like to bring your own observation equipment, then feel free - the more the merrier! Meanwhile, in the event of cloud cover, you can still observe our live feeds from telescopes located in superb observing sites like the Canary Islands and Chile. Whatever the weather, there'll be plenty of videos and images to keep all astronomy and night sky enthusiasts happy!

Age guidance: All Ages



#### KATHRYN HARKUP SUPERSPY SCIENCE

SATURDAY 18 FEBRUARY
8PM
BISHOP'S GATE HOTEL
DERRY / LONDONDERRY £7

#### This event is also taking place on Sunday 19 February in The Black Box, Belfast

Science and technology have always been central to the plots that make up the world of James Bond. In this talk, Kathryn Harkup will explore the full range of 007's exploits and the arms, technologies, tactics and downfalls of his various foes. She'll look at everything from the practicalities of building a volcano-based lair, to whether being covered in gold paint really will kill you. And - if your plan is to take over the world - is it better to use bacteria, bombs, or poison...?

Could our favourite Bond villains actually achieve world domination? Were the huge variety of weapons and technology in Bond's arsenal from both the films and books ever actually developed in real life? And would 007 actually escape all those close shaves intact? From the plots to the gadgets to the ludicrous ways that his life is threatened, Superspy Science takes an in-depth look at the scientific world of James Bond.

Age guidance: 18+

TECH + INNOVATION

SATURDAY 18 FEBRUARY — 40

SPACE



# DRAG ME TO THE LAB: OUEENS ONLY!

SATURDAY 18 FEBRUARY 8PM - LATE

THE BLACK BOX BELFAST

£15 / £12

As a queen doing science herself, Sassy Science wants to talk to you about the life and work of some of the LGBTQIA+ queens in STEM who came before her. And what better way to do it than with a musical revue?!

She wants you to laugh, cry, dance, sing and, of course, learn! So, come along for an evening of Sassy Science you won't want to miss.

#### Followed by a DJ set.

Age guidance: 18+

SCIENCE COMMUNICATION







### THE SCIENCE OF CINEMA

SATURDAY 18 FEBRUARY

STRAND ARTS CENTRE BELFAST

FREE

Explore the science behind early cinema at this hands-on workshop, where you'll learn all about how cinema first developed, bringing still pictures to life on the big screen.

You'll get the chance to try your hand at projection, as well as creating animations using zoetropes, thamatropes and praxinoscopes! If you're fascinated by films and want to know more about the science behind the stories, then come along and have some fun exploring this slice of cinematic history.

This workshop is supported by the Strand Stories project, made possible with The National Lottery Heritage Fund.

Age guidance: 5-12

TECH + INNOVATION



## SIREN23

SATURDAY 18 FEBRUARY THE PLAYHOUSE DERRY/LONDONDERRY

SATURDAY 25 FEBRUARY ULSTER UNIVERSITY BEI FAST

10AM - 4PM

Achieving a planet in balance, one that provides for humanity and the untold millions of other species with which we live, will be the greatest challenge of our century.

Join us at **SIREN23** in Belfast and Derry/ Londonderry as we bring together a range of inspirational speakers, traders and environmental organisations to share ideas and practical solutions on everything from conservation to living a more eco-friendly lifestyle. Suitable for all ages, **SIREN23** is a drop-in event, so you can dip in and out as you wish. Featuring a range of workshops, speakers and talks – covering everything from eco-art and sustainable fashion, to author events and exhibitions – there'll also be special film screenings and much more.

On **Saturday 18 February** we'll be taking over The Playhouse in Derry/Londonderry for a day of storytelling, workshops and exhibitions, while on **Saturday 25 February** we'll be based at Ulster University's new Belfast campus. With topics ranging from bugs, birds and wildflowers, to tools, tech and cheese...

SIREN23 IS A CALL FOR ACTION. WE AWAIT YOUR RESPONSE.



# INSIGHTS FROM MADAGASCAR AND THE AMAZON

SATURDAY 25 FEBRUARY 12PM - 1PM

ULSTER UNIVERSITY BELFAST

FREE

What are the links between bats, human food security and forest regeneration? Although elusive creatures, due to their mostly nocturnal behaviour, bats are undoubtedly one of the most fascinating groups of mammals. Based on examples from Madagascar and the Brazilian Amazon, learn about how tropical bats react to deforestation and how, by helping farmers and planting secondary forests, they can contribute to human food security and help reverse the effects of climate change.

Age quidance: 10+

#### **EVENTS INCLUDE**

#### MADELEINE FINLAY:

## BEETLES FOR BREAKFAST

SATURDAY 18 FEBRUARY 2PM - 3PM

THE PLAYHOUSE
DERRY / LONDONDERRY

£4

Imagine doing your homework with a pen that writes with exhaust fume ink. What about drinking cockroach milk or, as the title of science writer Madeleine Finlay's new book suggests – having Beetles for Breakfast?

Join Madeleine to discover weird and

Join Madeleine to discover weird and wonderful ways to save the planet, and try some bugs for yourself!

Age guidance: 8+



# HELEN SCALES THE BRILLIANT ABYSS

SATURDAY 25 FEBRUARY 1PM - 2PM

ULSTER UNIVERSITY

£3

True Tales of Exploring the Deep Sea, Discovering Hidden Life and Selling the Seabed.

Delve into the deep with marine biologist, Dr Helen Scales, as she explores the living wonders in the greatest ocean depths. *The Brilliant Abyss* shows just how far people have gone to exploit the sea - for knowledge and profit - and the perils it currently faces. Our collective footprint in the deep sea is increasing, but there are ways we might remedy that going forward..

Age quidance: 10+

# EOGHAN DALTUN IRISH ATLANTIC RAINFOREST

SATURDAY 25 FEBRUARY 11:00AM

ULSTER UNIVERSITY YORK ST, BELFAST

£3

A Personal Journey into the Magic of Rewilding. Discover what happens when you let nature grow wild ...

Age guidance: 6 +

CHECK OUR WEBSITE FOR MORE DETAILS ON **SIREN23** INCLUDING WORKSHOPS, SCREENINGS, TALKS AND EXHIBITION STANDS!



# THE OIL MACHINE SCREENING & DISCUSSION

SATURDAY 25 FEBRUARY 2PM

ULSTER UNIVERSITY BELFAST

FREE

Do this year's heat waves worry you? Have you had to choose between heating and eating this winter? And are 100 new licences for drilling in the North Sea the right answer to that?

Oil has been an invisible machine at the core of our economy and society. It now faces an uncertain future as activists and investors demand change.

Join us for a screening of 'The Oil Machine' followed by a discussion with local climate organisations and youth activists.

Age guidance: All Ages



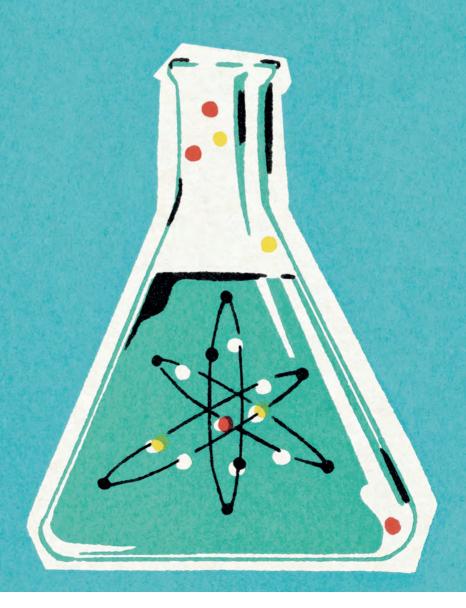








# SUNDAY - 19 FEBRUARY



#### **MAGICAL SOUNDS**

**SUNDAY 19 FEBRUARY** 11AM-12:15PM

SARC, QUEEN'S UNIVERSITY BELFAST

£2

Sounds can be mysterious, awe-inspiring, enveloping and, ultimately, relaxing to the extent that they're used therapeutically. But what is so unusual about the sounds of gongs and singing bowls that they defy our usual expectations of natural sounds, seeming somehow more magical..?

Answering this question takes Tessa Ann (Sound Healing Spa) and Dr Trevor Agus (Queen's University Belfast) on a journey through musical acoustics and human perception, looking at how muggle sounds normally behave and why more magical sounds defy our expectations.

Tessa Ann will also lead a sound bath taster as part of this event, during which you'll get the chance to explore what you hear further in what will be a truly immersive experience.

Age guidance: 14+

#### **FIGMENTS**

**SUNDAY 19 FEBRUARY** 12PM-1PM

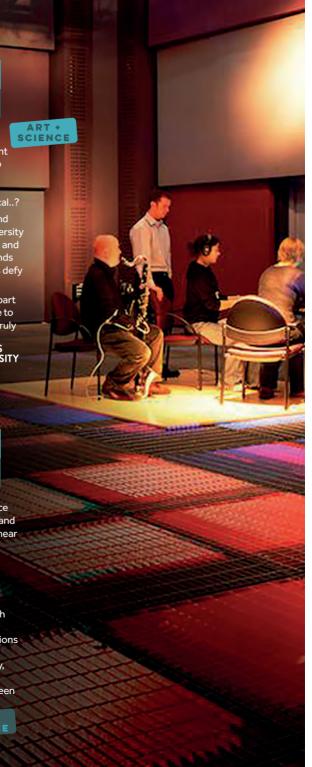
SARC, QUEEN'S UNIVERSITY BELFAST

FREE

Drop in to our Figments exhibition to experience the unexpected, with SARC works in progress and auditory illusions that will change the way you hear the world...

Try novel instruments that combine the feel of traditional physical instruments with a range of sounds made possible by digital technology, or custom instruments that exist primarily in augmented reality, tailored in collaboration with experienced musicians with disabilities. The auditory illusions provide startling demonstrations that you can fill in with details you can't hear. You'll learn to recognise novel sounds on the fly, perceive sounds very differently depending on their context and distinguish differences between sounds you can't even hear!

Age guidance: 10+





### THE MERCHANTS WHO GREW A CITY

SUNDAY 19 FEBRUARY 2PM-4:30PM

MEETING POINT AT THE BIG FISH, BELFAST

£15

### This event is also taking place on Sunday 26 February

Belfast's geography – its rivers, port and hills – played a key role in its industrial history. This walking tour covers the oldest parts of Belfast city, providing entertaining and informative accounts of the key figures behind the successful industries that grew Belfast from a small town to a prosperous Victorian city.

The tour takes in Donegall Quay, Clarendon Dock, the Cathedral Quarter, High Street and historic entries, where you'll get acquainted with the people who developed shipbuilding, printing, linen and whiskey production. Belfast was once well-known around the world for these industries - and each was connected with its rivers and port. The city holds clues to these business ventures in the cobbled streets, entries and docks that the tour will explore...

Age guidance: 14+







### PADDLE BACK IN TIME

TRADERS, PILGRIMS AND VIKINGS ON THE RIVER QUOILE

SUNDAY 19 FEBRUARY
1PM-3:30PM
QUOILE BRIDGE
DOWNPATRICK £50

Join us on a kayaking adventure exploring the tranquil River Quoile as it winds along to Inch Abbey, soaking up the history of the area as you go.

At Jane's Shore you'll be kitted out with a wetsuit and buoyancy aid, before being briefed by kayak instructor, Rory Martin. While paddling, you'll then learn about the historical settlements in the area from Dr Sarah Baccianti – researcher in the literature and history of medieval Scandinavia.

At Inch Abbey you'll discover the history of the monastic site and hear about the Vikings' influence before Dr Frances Kane – linguist and researcher in the origins of Northern Ireland's place names – guides you through the stories behind the local place names.

Age guidance: 18+





### HOW TO FIND LOVE, LOSE WEIGHT & LIVE FOREVER... WITHOUT REALLY TRYING!

SUNDAY 19 FEBRUARY 12PM-1.30PM

WHITLA HALL, QUEEN'S UNIVERSITY BELFAST

£14 / 12

Pleasure and danger are intimately linked: whether your weakness is cake, drugs, TV box sets or base-jumping, modern life presents humans with a set of temptations and consequential harms we can all understand. Dr Xand van Tulleken will examine how it is possible to get the most out of ourselves without self-help taking over our lives and without getting distracted by fads and nonsense.

Age guidance: 16+

MIND + BODY







#### **JURASSIC ROAR!**

SUNDAY 19 FEBRUARY VARIOUS TIMES - SEE WEBSITE

ALLEY THEATRE STRABANE

£14.50

### A roar-some new experience is coming to Strabane!

Jurassic Roar! features roaming, state-ofthe-art animatronic life-like dinosaurs in a THRILLING and interactive story-telling show, creating a unique, immersive experience for all audiences!

The show promises to be the closest you will ever come to real living dinosaurs, with a Stegosaurus and Apatosaurus and the famous T-Rex all making an appearance. You will also be able to catch a glimpse of other species, such as a Velociraptor and Triceratops.

Jurassic Roar! is a thrilling new stage adventure with a 60-minute stage production featuring huge moving dinosaurs, actors and special effects and is guaranteed to be fun for all the ages - especially for the little dinosaur-lovers!

Age guidance: All Ages



SUNDAY 19 FEBRUARY 48





# DAVID ROBSON THE EXPECTATION EFFECT: HOW YOUR MINDSET CAN TRANSFORM YOUR LIFE

SUNDAY 19 FEBRUARY 5PM

CRESCENT ARTS CENTRE BELFAST

£5

This event will also take place in Verbal Arts Centre, Derry / Londonderry on Monday 20 February.

People who believe ageing brings wisdom live longer.

Lucky charms really do improve an athlete's performance.

Taking a placebo, even when you know it is a placebo, can still improve your health.

Welcome to The Expectation Effect.

In this talk David Robson takes us on a tour of the cutting-edge research happening right now that suggests our expectations shape our experience. Bringing together fascinating case studies and evidence-based science, The Expectation Effect uncovers new techniques that we can all use to improve our fitness, productivity, intelligence, health and happiness.

Age guidance: 14+



#### PRAGYA AGARWAL HYSTFRICAI

# EXPLODING THE MYTH OF GENDERED EMOTIONS

SUNDAY 19 FEBRUARY 2PM

CRESCENT ARTS CENTRE
BELFAST

£5

MIND +

BODY

Emotions can be difficult things to define, yet we all recognise them when we feel them or see them in others. How we interpret those emotions and act upon them has been heavily gendered, as far back as Ancient Greek and Roman times and - despite the improvements in societal equality - this continues to be the case today.

We've all heard the saying that girls should be 'sugar and spice and all things nice' and that 'boys don't cry'... In Hysterical, Pragya Agarwal dives deep into the history and science that has determined the gendering of emotions to ask whether there is any truth in the notion of innate differences between the male and female experience of emotions. She examines the impact this has on men and women - especially the role it has played in the subjugation of women throughout history - and how a future where emotions are ungendered might look.

Age guidance: 14+





## AM I MADE OF STARDUST?

SUNDAY 19 FEBRUARY

WHITLA HALL QUEEN'S, UNIVERSITY BELFAST

Join space scientist and TV presenter, Dr Maggie Aderin-Pocock as she delves into her ambitions for the future of space travel, as well as explore the ongoing challenges of equality and diversity in science.

Maggie is best known for presenting the BBC's long-running astronomy series – The Sky at Night – a role she has held since 2014, but she is also a leading scientist and businesswoman. Maggie features commonly on radio and television, including Do We Really Need the Moon? (BBC Two) – awarded at the Women in Film and TV Awards – Do We Really Need Satellites? (BBC Two), Brave New World (Channel 4), The One Show (BBC One), Ducks Quacks Don't Echo (Sky One) with Lee Mack, I Literally Just Told You (Channel 4) with Jimmy Carr and Mini Stargazing for CBeebies.

Introduced by IOP committee chair Dr. Dermot Green.

Age guidance: 7+

SPACE

IOP Institute of Physics



# MONDAY 20 FEBRUARY



# EMBODYING A VIRTUAL REALITY EXPERIENCE OF CLAIMING ASYLUM

MONDAY 20 FEBRUARY 11AM-12PM

SCHOOL OF PSYCHOLOGY
QUEEN'S UNIVERSITY BELFAST FREE

Mainstream media can be influential in triggering constructs associated with our judgments of immigrants, refugees or asylum seekers. These judgements are often devoid of the own perspective of the refugee. Virtual reality provides users with the opportunity to embody, rather than just observe, digital representations of stigmatised groups and to put us 'in their shoes'.

Following an introduction to our research in this area, we invite you to step into our immersive virtual experience and discover how embodying a refugee in their process of claiming asylum might influence our attitudes and beliefs about the topic and the people.

Age guidance: 18+

TECH + INNOVATION

### CARBON AND COSTS

WHAT MIGHT WE BE ABLE TO DO TO OUR HOMES?

MONDAY 20 FEBRUARY 7PM-9PM

ULSTER UNIVERSITY BELFAST

FRE

This event looks at the ongoing challenges of fuel poverty and decarbonisation in the home - how addressing either can benefit the other.

Age guidance: All Ages

TECH + INNOVATION



### MENSA MAGNIFICENT MONDAY QUIZ

MONDAY 20 FEBRUARY 7:30PM-10PM

THE BLACK BOX

£2

Make the most of your Monday!

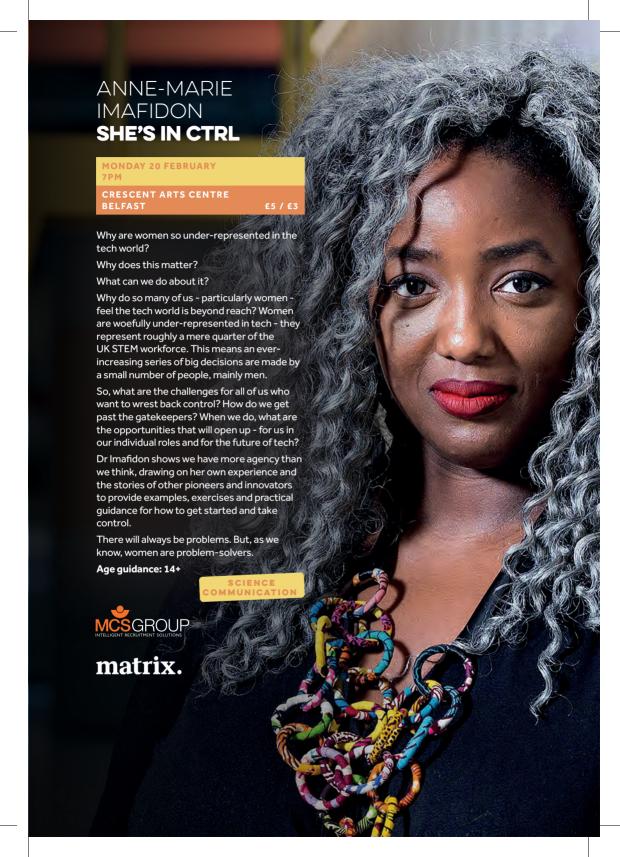
Drop in to The Black Box for a light-hearted team quiz devised by Mensa. No football, no soaps - just science, technology, engineering and a bit of general knowledge. Even if your quizzing is less than impressive, grab a few friends and come on down for the craic! You might even win a prize. Teams of up to six people are welcome.

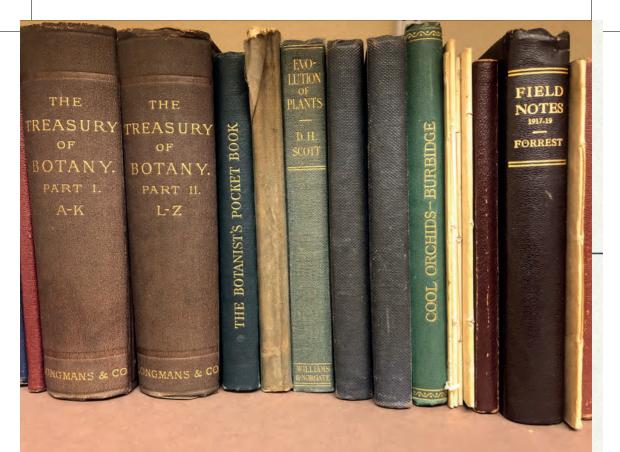
Age guidance: 18+

SCIENCE COMMUNICATION









### BEAUTY, BOOKS & BOTANY

MONDAY 20 FEBRUARY 6.30PM

ROWALLANE GARDEN SAINTFIELD

...

Where science and art meet in the magical gardens of Rowallane...

Join head gardener, Claire McNally, for a hands-on exploration of the historical plant collection in this beautiful 19th century space in the heart of Co Down.

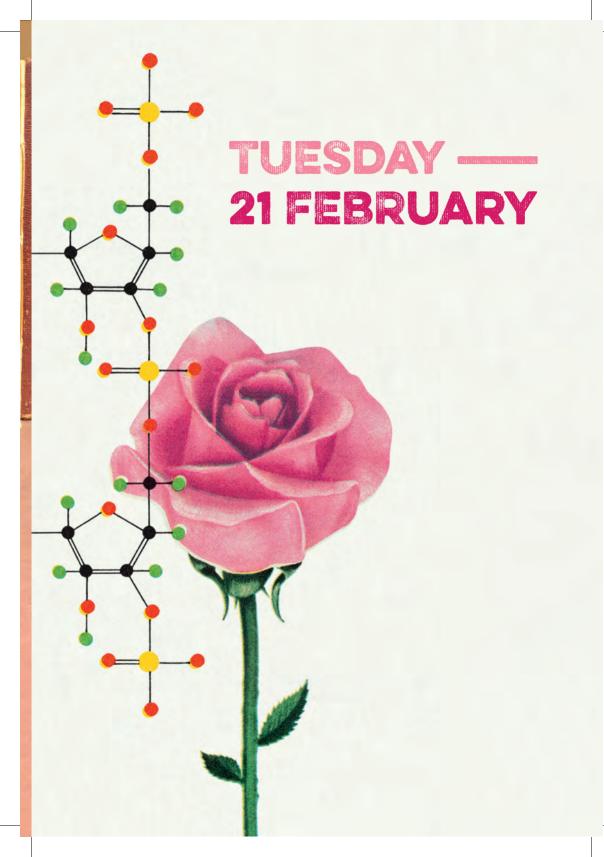


Find out more about Hugh's cutting-edge horticulture - experimenting with newly-introduced material collected by plant-hunters - and explore Rowallane's working book collection, one of only two within the National Trust. You'll discover all about the National Trust's ongoing work to identify and conserve Rowallane's beautiful plants for the future in this insightful event at one of Northern Ireland's most picturesque locations.

Includes Tea & Coffee on arrival.

Age guidance: Teenage – Adult
(maximum spaces 25)

ENVIRONMENT + NATURE







### CLIMATE EMERGENCY DEPARTMENT

TUESDAY 21 FEBRUARY 104M-12PM

MEDICAL BIOLOGY CENTRE
QUEEN'S UNIVERSITY BELFAST FREE

Have you ever wondered what the healthcare of the future might look like? Imagine the year is 2035 and our doctors of tomorrow are working a busy shift at the Royal Victoria Hospital...

Rising global temperatures and erratic weather events have introduced a new range of challenges for our doctors to overcome in order to treat their patients. Flooding has shut down the M1, GPs are treating more patients with infectious diseases and temperatures are rising.

This is the Climate Emergency Department - and we need your help!

Age guidance: 10-14

MIND +







# COASTAL FORAGE & DINE WITH PAUL CUNNINGHAM

TUESDAY 21 FEBRUARY

SCOPER'S DUNDRUM NEWCASTLE

£60

This one-off guided tour will take you to the wilds of the great outdoors with local chef, Paul Cunningham, in what will be a fun, immersive day in nature.

Appearing on *The Great British Menu*, it was clear to see that Paul's cooking creations were hugely connected to the flavours of home and local seasonal ingredients. Enjoy this unique opportunity to forage with Paul and source natural ingredients responsibly as he shares his passion for cooking and discusses what's in season along the way.

The day will end with an outdoor cooking demo and a chance to indulge in the flavours of your finds. Please note that this event will take place outdoors and you should bring all-weather clothing and a flask!

Age guidance: 18+

FOOD FOR THOUGHT



#### HANA WALKER-BROWN -

A DELICATE GAME: BRAIN INJURY, SPORT AND SACRIFICE

TUESDAY 21 FEBRUARY 6.30PM

CRESCENT ARTS CENTRE BELFAST

£5

Join award-winning audio documentary-maker, podcast creator and author, Hana Walker-Brown as she tackles the topics of power, science and sport, sharing insights from her debut book, *A Delicate Game: Brain Injury, Sport and Sacrifice.* 

Shining the spotlight on the degenerative brain disease, Chronic Traumatic Encephalopathy (CTE), the creator of awardwinning podcast, *A Beautiful Brain*, takes a considered look at concussion injuries in sport and the links to brain injury and disease.

Telling the stories of sports professionals and their families, alongside those of the scientists and researchers involved in this area, *A Delicate Game* is a powerful work of investigative journalism which explores the darker side of the sporting world - the passion, the truth and the violence.

Age guidance: 14+

SCIENCE COMMUNICATION



HEALTH AND
WEALTH: WHY
SHOULD CITIES
INVEST IN HEALTH
INNOVATION?

TUESDAY 21 FEBRUARY

ECIT, TITANIC QUARTER BELFAST

FREE

This session, chaired by Clare Guinness (Director of the Belfast Innovation District), will explore the future of Digital Health and Med-Tech, bringing together thought leaders in academia, industry, the startup and entrepreneur community, and the public sector. The vision for a Digital Health innovation ecosystem in Belfast is ambitious, and will see a step change in activity and the development of a cluster around key capital investments through the Belfast Region City Deal. Practical examples of the application of secure, connected, and intelligent digital technologies into the health sector will be showcased, along with industry views on how the ecosystem can flourish, and discussion on how collaboration can overcome societal challenges.

Age guidance: 18+

TECH + INNOVATION





THE LAST ICE AGE GIANTS & THE MAKING OF THE ANTHROPOCENE

TUESDAY 21 FEBRUARY 2PM-3PM

ULSTER MUSEUM BELFAST

FREE

Tens of thousands of years ago, an eyeblink in evolutionary time, beasts that boggle the mind roamed every continent. Armadillos the size of cars and sloths the size of houses lumbered through the Americas. Lions and hyenas battled in the Yorkshire hills. Hippos wallowed in the Lagan. Unlike the dinosaurs, all of these creatures met with stone age humans, our ancestors. We gave them names, told stories about them, and in a short time likely hunted most of them to extinction.

In this talk, we will tell the story of these ice age giants, how they lived, how early humans likely drove them to extinction, and what this momentous event can tell us about our own age of biodiversity loss.

Age guidance: 14+

ENVIRONMENT + NATURE

### CLIMATE

MONDAY 20 - FRIDAY 24 FEBRUARY 6PM / 7PM

ACROSS NORTHERN IRELAND

FREE

Join award-winning audio documentary - NI Science Festival partners with Northern Ireland Museums Council to present a series of panel discussions across the country on the ongoing climate emergency. All events feature representatives from Government, local authorities, universities and charities hosted by awarding winning author and journalist Mark Lynas (Our Final Warning: Six Degrees of Climate Emergency).

Age guidance: 14+

ENVIRONMENT + NATURE

### TALKS WILL TAKE PLACE IN THE FOLLOWING LOCATIONS:

- Linen Hall Library, Belfast -Monday 20 February
- Down County Museum, Downpatrick -Tuesday 21 February
- Armagh Planetarium -Wednesday 22 February
- Springhill, Magherafelt -Thursday 23 February
- F.E McWilliam Gallery and Studio, Banbridge
   Friday 24 February

Check website for further details on panelists and guest speakers.



## WEDNESDAY-22 FEBRUARY



# THE SCIENCE OF SUPERHEROES IN FILM & TELEVISION

WEDNESDAY 22 FEBRUARY
7PM

LARMOR LECTURE THEATRE

FREE



#### Excelsior!

Currently 13 out of the top 30 highestgrossing films of all time are superhero movies, especially Marvel films such as *Avengers: Endgame*. Similarly, television shows such as *The Flash* and *Supergirl* dominate our smaller screens.

However, how realistic is what we see in these films and television shows?

Featuring clips from superhero films and television shows, Prof Francis Keenan of Queen's University Belfast discusses the scientific accuracy (or otherwise) of what we see. Assemble!

Age guidance: 10+







### THE DIGITAL HEALTH FUTURE:

WILL DIGITAL TECHNOLOGIES & ARTIFICIAL INTELLIGENCE CHANGE OUR HEALTH?

WEDNESDAY 22 FEBRUARY

ULSTER UNIVERSITY BELFAST

FREE

Apps and chatbots are being used to help people self-care and self-manage their health and wellbeing. And many of us use wearables to help monitor and gamify physical activities. Artificial intelligence is being used to help automatically diagnose patients by using algorithms to read X-rays and electrocardiograms.

This event will provide a series of accessible public lectures that will present the state-of-the art in digital cardiology, radiology, oncology, and mental health. This will cover topics such as the use of sensor data, healthcare apps, chatbots and the use of artificial intelligence to support doctors in making clinical decisions. We will also look at the use of design fiction to help visualise the future of healthcare.

Age guidance: All Ages







# BEHIND-THE-SCENES CONSERVATION TOUR OF HILLSBOROUGH CASTLE

WEDNESDAY 22 FEBRUARY

HILLSBOROUGH CASTLE HILLSBOROUGH

£17 / £13.60

### Price includes admission to Hillsborough Castle's 100 acres of world-famous gardens.

Take a peek behind the scenes at Hillsborough Castle with this unique guided tour, which will reveal all sorts of fascinating facts about the scientific methods used to preserve our historical artefacts. From furniture and paintings, to the silverware and clocks displayed in the State Rooms of Hillsborough Castle, each item has its own particular requirements to ensure it remains in tip-top condition.

Led by Castle and Collections Manager, David Orr, you'll see first-hand the techniques used to care for our collections, including a special behind-the-scenes visit to rooms which aren't accessible on our regular tours. You'll also have the chance to meet one of our highly skilled specialist conservators, who will gladly answer any questions you might have!

Age guidance: 10+

HISTORY + SOCIETY

#### SIR BERNARD CROSSI AND

## ANNUAL LECTURE WITH PROFESSOR KEITH BELL

WEDNESDAY 22 FEBRUARY
5.30PM-6.30PM

RIDDEL HALL BELFAST

FREE

This year, Engineers Ireland and Queen's University Belfast, in association with The Institution of Engineering and Technology, are delighted to welcome Professor Keith Bell, University of Strathclyde, to give the 21st Annual Sir Bernard Crossland Lecture on the theme of power and sustainable energy.

Age guidance: 18+





#### **TENX9**

WEDNESDAY 22 FEBRUARY 7:30PM

THE BLACK BOX BELFAST

FREE

Tenx9 is a storytelling event where nine people have up to ten minutes each to tell a true story from their own life. So join us for nine, brilliant, true stories on the theme 'Discovery'.

If you have a true story from your own life that you'd like to be considered please email tenx9@gmail.com

Please note that Tenx9 is an extremely popular event and operates on a first come, first serve basis. Getting down early is strongly recommended.

Age guidance: 18+





### CAN YOU TEST HOW FIT YOUR BRAIN IS?

USING VIRTUAL REALITY
IN SPORTS-RELATED
CONCUSSION

WEDNESDAY 22 FEBRUARY

W5 LIFE THE ODYSSEY, BELFAST

FREE

We know that elite athletes are physically very fit to perform at the highest level and that the brain has to be fit and reactive - especially in fast, high-intensity sports like ice hockey. In fact, it's our brain's fitness that's affected when we suffer a concussion.

Concussions have made media headlines more recently with the potential longer-term effects of repetitive concussions on brain function. Hosted by Ulster University, this event offers you the chance to check your own brain fitness in four key areas related to elite sport through a series of Virtual Reality (VR) tests. These include challenging your balance, decision-making, hand-eye coordination and memory.

Afterwards, you'll receive a score that you can compare to the Belfast Giants squad!

Age quidance: All Ages







WEDNESDAY 22 FEBRUARY

CRESCENT ARTS CENTRE BELFAST

E 5

Why do people take revenge? It's a fascinating question, which psychologists have been trying to answer for a while. We may feel we intuitively understand it. After all, we've probably all wanted to take revenge at some point, and it's constantly explored in books, film, and television programmes. Yet the discoveries that psychologists have made about revenge may surprise you.

This talk explores scientific discoveries about why we take revenge. It also presents the results of a new study on the subject by psychologists at Queen's University Belfast. The study uses online games to explore how brain functioning affects revenge as well as how it is linked to tiredness, mood, and emotions.

Age guidance: 18+

MIND + BODY





## BRIAN BUTTERWORTH CAN FISH COUNT?

WEDNESDAY 22 FEBRUARY

ULSTER UNIVERSITY BELFAST

£5

You might know that primates have a knack with numbers, but what about frogs, bees or lions? Do they understand Maths and if so, how? What's more, where does this knowledge come from?

Renowned cognitive psychologist Brian Butterworth will address all this and more as he discusses his latest book, *Can Fish Count?* with Ulster University's Professor Victoria Simms. Packed full of anecdotes, animal studies and, of course, the core science behind it all, Brian's book reveals the extraordinary mathematical skills of the animal kingdom.

Revealing exciting and detailed insights into the minds of mammals and more, Can Fish Count? makes us reconsider just what the natural world is capable of, as well as helping us understand more about our own innate abilities.

Age guidance: All Ages

MIND + BODY



### FROM CRUMLIN TO CHELYABINSK:

TALES TOLD BY METEORITES

WEDNESDAY 22 FEBRUARY

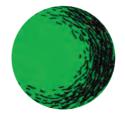
ULSTER MUSEUM BELFAST

FREE

In 1902 a meteorite the size of a loaf of bread crashed into a field near Crumlin in Co Antrim. More than a century later, in 2013, a meteorite the size of a five-story building disintegrated above the city of Chelyabinsk, in Russia. Where had they come from? How did they affect people on the ground? What can they tell us about the history of our Solar System over more than 4.5 billion years? Join Dr Mike Simms, the Ulster Museum's meteorite expert, to discover the astonishing story revealed by these visitors from Outer Space.

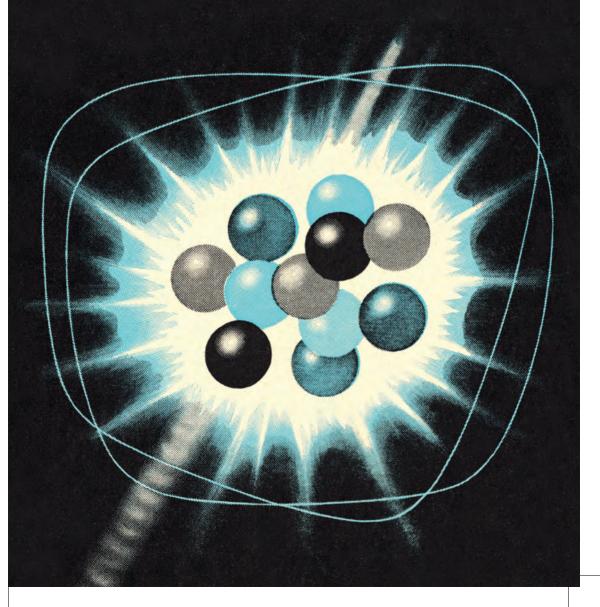
Age guidance: 14+

SPACE





# THURSDAY ---23 FEBRUARY





### BRAIN IN A BOX MAKE A BRAIN, PUT IT IN A BOX & TAKE IT HOME

THURSDAY 23 FEBRUARY 10:30AM-1:30PM

ULSTER UNIVERSITY BELFAST

FREE

Want to make a brain?! Get hands-on in this interactive workshop, where you'll learn all about the inner world of the body and the role and function of the brain in relation to this.

From talking about the brain to drawing and then constructing your very own 3D paper model of one, you'll learn all sorts of fascinating facts about the body and how it works. By the end of the session you might just be a bit of a brain boffin!

Age guidance: Under 16

MIND + BODY







### NATURE-FRIENDLY LINEN PRODUCTION AT MALLON FARM

THURSDAY 23 FEBRUARY

MALLON FARM COOKSTOWN

11AM-1PM

f 4

Sprawling across 50 acres in rural Co Tyrone, Mallon Farm harvests an ever-increasing diversity of crops which includes everything from flax (produced for fibre), oats and potatoes, to apples and pears. Indeed, having recently reintroduced flax to the land, Mallon Farm is now the first commercial producer of Irish-grown linen in 40 years.

This visit to the farm will give you the opportunity to learn all about the sustainable processing of the flax crops, including a tour of the traditional meadows, woodlands and mature hedgerows which make up the landscape.

Age guidance: All Ages

ENVIRONMENT + NATURE



THURSDAY 23 FEBRUARY — 68

# THE LANGUAGE & SHAPES OF SYNTHESISERS & ELECTRONIC SOUND

THURSDAY 23 FEBRUARY

THE PLAYHOUSE
DERRY / LONDONDERRY

£0 / £4

Join Dr Brian Bridges (electronic musician and Research Director in Music, Drama, and Film/ Screen at Ulster University) as he introduces audiences to the ideas, technologies and approaches that have shaped electronic music from the early 20th century to the present day, featuring live demonstrations and visualisations of synthesised sound and reflections on how these sounds have shaped our music.

This event is presented in conjunction with Derry Sound Factory, a cooperation between Northern Lights Project and Ulster University Faculty of Arts Humanities & Social Sciences. The Northern Lights Project is funded by the Arts Council of Northern Ireland

Free admission for under-18s and students. Age guidance: 14+

Ulster University

noringen light5 Project

### THE SCIENCE OF DREAMS

THURSDAY 23 FEBRUARY

THE MAC

£15.50 / £18.50

Humans have studied and interpreted dreams for many centuries. Have you ever woken up after a crazy dream convinced it means something? Or spent hours wondering why your mind comes up with such ludicrous fantasies?

In this engaging talk from NHS psychiatrist and neuroscientist Dr Jonathan lliff, you will learn what science has to say on the matter! Jonathan will explain the current theories on how and why we dream, what goes on in our brain during sleep and how you can enhance your dreams!

Age guidance: 14+

MIND +





# CAOIMHE ROONEY FROM MATHEMATIGALS TO MARS

THURSDAY 23 FEBRUARY
11AM
ONLINE FREE

We're delighted to welcome one of Northern Ireland's most inspiring scientists to the Festival for a discussion about her work and career to date.

Belfast born Caoimhe Rooney is the sole mathematician within a group of astrophysicists at NASA Ames studying exoplanet atmospheres to understand how they formed, what they're made of, and if they could be home to extraterrestrial life.

She is also co-founder of Mathematigals, an educational initiative to boost representation of women and girls in maths and STEM.

Age guidance: All Ages



### matrix.



### ELSA PANCIROLI BEASTS BEFORE US:

THE UNTOLD STORY OF MAMMAL EVOLUTION

THURSDAY 23 FEBRUARY
7PM

ULSTER MUSEUM
BELFAST £5

You might think the story of mammal evolution began after dinosaurs went extinct, but their origins actually extend back a staggering 300 million years earlier, in the alien world of the Carboniferous...

Join palaeontologist and museum researcher, Dr Elsa Panciroli, as she reveals the incredible genesis of mammals, as featured in her latest book, *Beasts Before Us.* With fossils and technologies from the past two decades enabling scientists to drastically rewrite the evolution story of mammals, the Scottish scientist explores this fascinating metamorphosis of our ancestors.

From the first animals to walk on land, to the diversity of modern mammal groups we see on our planet today, this event will reveal fascinating insights into the brilliant world of beasts.

Age guidance: 6+

ENVIRONMENT + NATURE

THURSDAY 23 FEBRUARY — 70



#### THE CHEESE BOARD

THURSDAY 23 FEBRUARY

CRESCENT ARTS CENTRE BELFAST

£40

Join renowned food journalist and cheesewriter Patrick McGuigan, along with Northern Ireland's very own cheese connoisseur, Johnny McDowell, for a special evening celebrating the irresistible charm of cheese...

Pairing the finest Irish cheeses with premium whiskey, gin and vodka from the award-winning Echlinville Distillery, this unique event showcases the very best of quality local produce. Including craft beer and cider from some of the province's most exciting new breweries, you can sit back, relax and sample a selection of delicious artisan cheeses while our turophiles share their professional insights and explain the science of cheese making in a fun and accessible way.

Whether you crave soft, creamy cheese or smooth and slightly crumbly; enjoy a full-bodied, savoury flavour or prefer a sharper, more intense cheese, you'll certainly find something to satisfy those taste buds.

Age guidance: 18+

FOOD FOR THOUGHT



#### YOGA FOR A BIOLOGICAL ORGANISM

THURSDAY 23 FEBRUARY 7PM-8:30PM

NERVE CENTRE DERRY / LONDONDERRY

£3

Practising yoga on a regular basis has been shown to have many positive effects on our bodies, while understanding these physiological benefits can help to improve our personal performance during sessions.

In this event we'll talk you through the seven organ systems of the human body, including the skeletal, muscular, nervous and respiratory systems, along with the cardiovascular, digestive and lymphatic systems. We'll look at how yoga can promote health and vitality within each one and, ultimately, improve health and well-being across the entire body system.

This talk will also incorporate a yoga session by Sinéad Burley.

Age guidance: 18+

MIND +

## STARTRACKER MUSIC NIGHT FROM MERCURY WITH LOVE WITH DR ROK

THURSDAY 23 FEBRUARY

ARMAGH PLANETARIUM

£15

We will rock you at our February StarTracker evening...

Your evening will launch with Dr Rok Nežič's From Mercury with Love talk, where you'll hear all about recent missions to Mercury and pick up some fascinating facts about this tiny planet, which is the closest to the Sun.

We'll then segue into our spectacular Queen Music Show, where you can immerse yourself in Queen's greatest hits before heading out for a spot of stargazing. Don't stop us now - we're gonna have a great time!

Age guidance: 18+

SPACE



#### **HEARTS & CRAFTS**

MBC @ QUEEN'S UNIVERSITY **BELFAST** 

Be inspired by the fascinating anatomical specimens in the Queen's University Belfast collection, with the chance to see some rare. historical potted pathology specimens and learn more about the human body. You'll then put this inspiration to work by designing a canvas tote bag which you can take home. Plenty of inspirational images, materials and guidance will be provided! The course is suitable for those with a range of artistic abilities and/or knowledge of human anatomy. Viewing of specimens is optional and will be done in full accordance with the Human Tissue Authority Act Regulations.

Note: This workshop will not include viewing of whole human or dissected wet specimens.

Age guidance: 18+





SCIENCE



#### WHAT THE MEDIEVAL **DOCTOR ORDERED**

LOVE POTIONS. IMPOTENCE CURES AND BEAUTY TIPS FROM IRFLAND & SCANDINAVIA

THURSDAY 23 FEBRUARY

**BLACK BOX** BELFAST

£2

£10

Milk, holy water, ginger, fennel, dung, snails, lizards and bull's testicles... Medieval medicine often called for bizarre ingredients, charms. torture-like surgical procedures and colourful concoctions of herbs, spices and animal parts.

Join four researchers from Belfast, Cambridge and Maynooth as they guide you through the language, remedies and ingredients used by medieval doctors in Ireland and Scandinavia to cure, amongst other ailments, lovesickness, impotence and ageing.

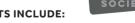
You will squirm, you will laugh but most of all, you will be captivated by the marvels of medieval medicine!

#### **OUR EXPERTS INCLUDE:**

Dr Sharon Arbuthnot (University of Cambridge)

Dr Sarah Baccianti (National Museums NI) Dr Siobhán Barrett (Maynooth University) Dr Deborah Hayden (Maynooth University)

Age guidance: 18+





### THE SCIENCE OF PSYCHEDELICS

THE FUTURE OF MENTAL HEALTH?

THURSDAY 23 FEBRUARY 7.30PM-8.30PM

THE MAC BELFAST

£15.50 / £18.50

Join NHS doctor, Jonathan lliff, for a journey through the past, present and future use of psychedelic drugs to treat mental illness. Dr lliff will talk through the history of experimentation by psychiatrists in more than 40,000 patients - from the euphoric elitism of the 1940s, to the crashing comedown of the effective ban on research in the 1970s.

#### WE WILL ALSO DISCUSS...

- How psychedelics produce their effects in the brain.
- How people might benefit from consuming compounds such as psilocybin and LSD.
- Whether psychedelics will ever be prescribed on the NHS for mental health conditions.
- If psychedelics are the future of mental health... If they are, what will that look like and if not - then what is..?

Want answers? Then come on in. Let's explore some marvellous things.

Age guidance: 16+







### RENDR FESTIVAL 2023

THURSDAY 23 - FRIDAY 24 FEBRUARY

PORTVIEW TRADE CENTRE
BELFAST £100 (2 DAY TICKET)

Bringing you a unique nocturnal experience celebrating creative craft and artistry in a fully immersive two-day festival exploring the space between Creativity and Technology.

Ignite your imagination with two stages and 30+ speakers from the worlds of film, gaming, animation, immersive, and more! Learn from the best, with representatives from the likes of Netflix, Pixar, DC and Epic Games among others.

Come for the talks, stay for the experience!

Age guidance: 16+

TECH +



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### LITTLE ASTRONOMERS

FRIDAY 24 FEBRUARY 10AM-11AM

ARMAGH PLANETARIUM

CHILD £3.50 ADULTS FREE

Transport your Little Astronomers into the exciting world of science with some fun, hands-on activities at Armagh Planetarium that are sure to tickle their curiosity. Explore the state-of-the-art sensory room, before enjoying the special toddler dome show, Astronaut George. This full-dome show sees George investigate the best planet to live on and the dangers lurking on the surface of other planets in our Solar System. Will he find any alien friends to play with..? Come along and find out in this interplanetary adventure!

Age guidance: 0 - 5

CREATE.
MAKE. PLAY.

#### **WALK WITH ME**

FRIDAY 24 FEBRUARY

ULSTER UNIVERSITY BELFAST

FREE

Walking is a great way to keep fit and healthy, particularly in your older years, so why not join us for a dander and find out more about the science behind strolling? This is a great opportunity to hear about the research currently underway at Ulster University to promote physical activity in older adults through walking.

Project staff will demonstrate how blood pressure and body mass index (BMI) are measured, as well as giving demos of tests for muscular strength, endurance and balance. A Physical Assessment/Performance MOT will also be set up, before you enjoy a 30-minute walk around Belfast city centre, where you can share stories of getting active!

Age guidance: 60+







#### A NEW VIEW OF THE GIANT'S CAUSEWAY

FRIDAY 24 FEBRUARY 7PM-8PM

ULSTER MUSEUM BELFAST

FREE

The Giant's Causeway is a geological wonder formed by volcanism 60 million years ago. It has seen millions of visitors over the past two centuries, yet ideas about the landscape across which the lava flowed and how it formed into columns as it cooled, have changed little for decades.

Surely there is nothing new to discover..?
As it turns out, a chance remark in 2012 led to new research and the demolition of a key theory that had gone unchallenged for 80 years.

Join Dr Mike Simms to hear all about Northern Ireland's remarkable volcanic heritage and the evidence – hiding in plain sight – that overturned a decades-old theory about the Giant's Causeway.

Age guidance: 14+

ENVIRONMENT + NATURE





#### DARK **PERSONALITIES** & CULTURE

**FRIDAY 24 FEBRUARY** 6:30PM-8PM

DAVID KEIR BUILDING

#### What would you think if someone were to call you a narcissist ..?

In the past several decades, societies have immortalised individualism. Indeed. research suggests that individualistic practices are on the rise! Yet people frown upon traits that promote self-interest. such as those included in the Dark Triad: Machiavellianism, narcissism and psychopathy. However, if dark personality traits are socially toxic, why are they on the rise in modern societies?

In this interactive talk, Dr Kostas Papageorgiou of Queen's University Belfast will present findings to suggest that dark personalities are neither bad nor good - they are adaptive or maladaptive, depending on the context. The discussion will also focus on cultural influences on human personality and gender differences in dark personality traits.

Age guidance: 14+







#### **DARE TO DREAM:** A NEW LEARNING **RFALITY**

FRIDAY 24 FEBRUARY **7PM** 

CRESCENT ARTS CENTRE BELFAST

FREE

#### What will the future of learning look like?

Explore how we can use virtual reality (VR) to transform teaching and learning in this talk with The Open University's Oli Howson. Discover how VR is depicted in the media, the dangers of adopting this new way of learning and what a future which normalises VR in teaching could look like.

Experience various virtual realities first hand. Prepare to go rock climbing, navigate through unfamiliar streets, and get up close and personal with a friendly robot, plus many more.

This event is open for all dreamers of the future! All children must be accompanied by an adult and children need to be 13+ years to use the VR equipment.

Age guidance: 13+



### THE MEDIEVAL MENU EXPERIENCE

FRIDAY 24 FEBRUARY

NARROW WATER CASTLE WARRENPOINT

£80

After last year's sold-out Gala Banquet event, we're now offering another extraordinary and unique dinner experience that will transport you back to the Middle Ages - a period resplendent in spices, herbs and flavour.

This sumptuous five-course feast will leave you open-mouthed from beginning to end with its inspiring flavour combinations and playful approach.

The joint creation of Chef Paul Cunningham - four-time Chef Ireland winner and two-time Great British Menu finalist - and Dr Sarah Baccianti, an award-winning heritage event organiser and researcher in medieval medicine, this is a surprise dinner with a difference. Why not join them for a deliciously entertaining night that is sure to titillate your taste buds..?

Age guidance: 18+

FOOD FOR THOUGHT

#### **VR IN THE BAR**

FRIDAY 24 FEBRUARY 7PM-10PM

NERVE CENTRE
DERRY / LONDONDERRY

Immerse yourself in a gaming experience like no other with retro arcade machines, virtual reality headsets and interactive games. Challenge yourself with the old and the new, be transported back to the 80s or to the outer limits of our galaxy. Feel the force in Beat Saber, become a galaxy defender in Space Pirate, face your fears on Richie's Plank Experience and get schwifty with Rick and Morty.

Age guidance: 18+

TECH + INNOVATION

### RELAXED AFTERNOON AT THE PLANETARIUM

FRIDAY 24 FEBRUARY

ARMAGH PLANETARIUM

FREE

Join us at the Planetarium for a chilled-out afternoon! Enjoy our dome show, Perfect Little Plant where you will imagine the ultimate space vacation! Discover our Solar System through a new set of eyes – a family from another star system seeking the perfect vacation spot. Fly over the surface of Pluto, our best known Dwarf Planet. Dive down the ice cliffs of Miranda. Sail through the rings of Saturn. Feel the lightning storms at Jupiter and walk on the surface of Mars. Which destination would you choose?

Age guidance: All Ages

SPACE

### THE SECRET (SEX) LIVES OF FLIES

FRIDAY 24 FEBRUARY 7PM-8PM

THE COURTHOUSE BANGOR

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Enter a hidden world of snail-killers, silly names and crazy sex as entomolologist, Erica McAlister, delves into the secret lives of her favourite creatures - flies. Dispelling many common misconceptions about these tiny insects, Erica will share all sorts of fascinating insights about what flies get up to, revealing them as the truly amazing, exotic and important little creatures they really are.

From hungry herbivores and precocious pollinators, to robber flies, dance flies and the much maligned mosquito, flies come in many shapes and sizes, often with unusual characteristics - and Erica is here to tell you all about them.

Age guidance: 18+

ENVIRONMENT + NATURE



#### 30 YEARS OF DOOM WITH JOHN & BRENDA ROMERO

THURSDAY 23 FEBRUARY 7PM

THE MAC BELFAST

...

Join us as we celebrate 30 years of one of the most influential video games ever made - the first-person shooter, *Doom.* Leading the celebrations will be an in-conversation event with one of the game's designers, John Romero - something fans of the game won't want to miss.

An award-winning game designer, level designer and programmer, Romero's work spans more than 130 games, 107 of which have been published commercially, including the iconic works *Wolfenstein 3D, DOOM* and *Quake*. With an impressive career history, Romero has worked in the mobile, hardcore, mid-core, casual and MMO space and will share various insights from his work to date.

Age guidance: 16+

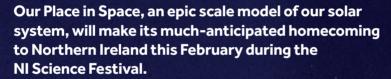
TECH +



# OUR PLACE IN SPACE \* OLIVER JEFFERS

### **Ulster Transport Museum** & North Down Coastal Path

#### **Opening 24 February 2023**



Centred around an epic scale model of the solar system designed by artist Oliver Jeffers, along with scientist Professor Stephen Smartt and a creative team led by the Nerve Centre, Our Place in Space comprises a three-dimensional sculpture trail, interactive AR app and exciting learning and events programme. The 10km experience will touch down at the Ulster Transport Museum and along the North Down coastal path from 24 February, accompanied by an out-of-this-world events and engagement programme.

Our Place in Space invites us to consider how we might better share and protect our planet in the future. It brings our solar system down to Earth and sends us soaring into the stars to find new perspectives and to reconsider what it means to live life on Earth.



Find out more and get involved at

of fin @ourplaceearth

www.ourplaceinspace.earth



An intergalactic programme of free events will take place around the sculpture trail this February and March.

#### **DRIVE-IN MOVIES AT THE ULSTER TRANSPORT MUSEUM**

Buckle up for some special sci-fi and family friendly film screenings from the comfort of your own car.

#### SPACE CHARACTERS

Say hello to some family friendly cosmic characters who will animate your experience along the trail during the opening and closing weekends.

#### **HOW THE VICTORIANS** TOOK US TO THE MOON

Author Iwan Rhys Morus will examine how the Victorians revolutionised science in this special event amongst the trains of the Ulster Transport Museum.

#### **GUIDED TOURS OF** THE SOLAR SYSTEM

Strap on your walking boots, jump on your bike or take to the water for guided tours of the sculpture trail.

#### **CHALLENGE AWARDS**

Winners of the Our Place in Space creative challenges, designed to inspire young people to think in new ways about the world, will be announced at a special event in W5.

#### **CONSTELLATIONS OF NOISE**

Join Dumbworld and a host of artists at The Courthouse in Bangor during the closing weekend for a showcase of audio and visual work created in communities across Northern Ireland.

Additional events include STEAM activities. skywatching, a sea swim, talks, music performances and much more!





A new Our Place in Space Minecraft world sees you journey through the solar system, stopping off at each of the planets to explore historical events back on Earth. Coming soon to the Minecraft Marketplace or download it now from the Our Place in Space website.







### DOWNLOAD THE APP

Download the Our Place in Space app to journey through the solar system, collect space souvenirs and learn all about space – wherever you are in the world.

GET THE APP







#### DRAGONS' TAILS & BALOR'S EYE AND SOUTH AFRICAN STARLORE

SATURDAY 25 FEBRUARY 4PM

ARMAGH PLANETARIUM

£4

Join Dr Sharon Arbuthnot from the University of Cambridge and Dr Daneil Cunnama from the South African Astronomical Observatory for two astronomy-themed discussions:

Dr Arbuthnot will explore how the Irish engaged with astronomy and astrology in the past, looking at how early medieval writers observed the movements of the stars and recorded how they had seen 'dragons' in the sky. She'll also consider how names for all sorts of astronomical phenomena - from the Great Bear to the Milky Way - have been assigned, altered, forgotten and replaced over the years.

Science Engagement Astronomer, Dr Cunnama, will use starlore about the night sky to explain how Africa has a long and rich relationship with astronomy. With many different languages spoken across various regions in South Africa, Dr Cunnama will also look at how language and the tradition of storytelling go back many generations and tie us to our ancestors...

Age guidance: 14+

HISTORY +





#### **FORAGING AFLOAT**

SATURDAY 25 FEBRUARY 10AM - 1PM

GREEN BOAT SHED WHITEROCK, KILLINCHY

£65

#### Also taking place on Sunday 26 February.

Spring is arriving on Strangford Lough and with it, an array of seasonal wild food from both land and water... Join Rory from Strangford Lough Activity Centre, along with David and Celia of Wild About, for a unique guide to the sights and flavours of the area as they take you on a foraging tour with a difference.

From your kayak or open canoe you'll learn some local history, as well as having the chance to spot the local wildlife and improve your paddling skills along the way. We'll then stop off at an island to forage for some salty delights and enjoy a hearty lunch infused with the unique taste of Strangford Lough.

Age guidance: 14+

FOOD FOR





#### PATRICK G JOHNSTON CENTRE FOR CANCER

### RESEARCH PUBLIC OPEN DAY

SATURDAY 25 FEBRUARY 10AM-1PM

PATRICK G JOHNSTON CENTRE QUEEN'S UNIVERSITY BELFAST

FREE

Find out about the ground-breaking research taking place at Queen's University by visiting The Patrick G Johnston Centre for Cancer Research (PGJCCR).

Leading researchers will present an overview of the Centre and explain their work on the causes, early diagnosis and prevention of cancer. There'll also be the opportunity for a behind-the-scenes tour of the research laboratories, where you can meet the research staff and students, along with local charities and funding bodies.

A range of interactive activities will ensure that the whole family will be able to engage in this exciting and informative event!

Age guidance: All Ages

MIND + BODY





#### THINK DEEP

SATURDAY 25 FEBRUARY 10AM-1PM

MARBLE ARCH VISITOR CENTRE

£8

The Marble Arch Caves provide a glimpse into a fascinating underground world of rivers, passages and chambers, sculpted by natural processes over many thousands of years. Join us for the day and learn all about the hydrology of the caves while watching the Shru Croppa River turn an astonishing luminous green.

You'll also learn all about the importance of dye tracing in geology - a method used by hydrogeologists to trace the flow of underground streams and rivers - from Paul Wilson of the Geological Survey of Northern Ireland. This will be followed by a visit to the Show Cave where, courtesy of our friends at the British Geological Survey, you can delve deep beneath the earth's surface using our brand new AR Oculus headset technology.

Age guidance: 6+ NB Children must be accompanied by an adult





#### QUB ASTRONOMY DAY

SATURDAY 25 FEBRUARY 10AM-4.30PM

LANYON BUILDING,
QUEEN'S UNIVERSITY BELFAST FREE

Join the Astrophysics Research Centre at Queen's University Belfast for space-related fun for all ages, including hands-on activities, a demonstration of how the Northern Lights are formed, and short talks about the latest discoveries made by Queen's astronomers. Younger scientists can colour their very own exoplanet and test their theories with the playdough Solar System. Weather permitting, there will be a selection of small solar telescopes outside, enabling visitors to safely view the surface of the Sun.

Age guidance: All Ages





#### **FUN WITH FOSSILS**

SATURDAY 25 FEBRUARY 10:30AM-12:30PM

CARRICKFERGUS MUSEUM & CIVIC CENTRE

FREE

Come and make fossils with plaster of paris and fossil moulds and find out from experts about our local fossils. You can bring home your own handmade replicas and learn a little bit about where they lived and why they are important. The museum has fossils that were collected by local antiquarian, Rev Canon J.C Rutherford and you will be able to see these and other local fossils, such as ammonites and sea urchins. The East Antrim coast is rich in a wide range of fossils in the chalk and the Jurassic clays and limestones.

Delivered by the Belfast Geologists' Society.

Age guidance: All Ages

ENVIRONMENT + NATURE



### BEESWAX WRAP WORKSHOP

SATURDAY 25 FEBRUARY 10:30PM & 1:30PM

HILLSBOROUGH CASTLE £25 & GARDENS (£15 FOR MEMBERS)

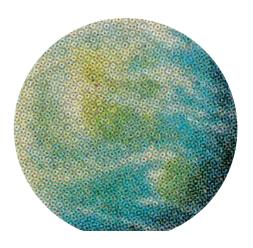
Price includes access to Hillsborough Castle's 100 acres of world-famous Gardens.

Led by Hillsborough Castle's resident beekeeper, Gwen Earnshaw, this hands-on workshop will allow participants to make their very own beautiful reusable beeswax wraps.

Watch as Gwen demonstrates the techniques involved, then have a go at making your own. Everyone will leave with two to three wraps in a variety of sizes and patterns. The workshop will take place in our Clore Learning Centre onsite and all equipment and ingredients will be supplied.

Age guidance: 14+

ENVIRONMENT + NATURE





### OUR MARVELLOUS LITTLE MINDS!

SATURDAY 25 FEBRUARY 11AM & 12:30PM

ULSTER MUSEUM BELFAST

FREE

In this fun, interactive workshop we'll explore the science of toddler development through a range of engaging activities between caregivers and their children. Come along to find out more about the amazing brains of your children and learn all about the fascinating science of early development.

We expect this event to be busy and noisy - so all toddlers are very welcome!

Age guidance: Children aged 0 - 4 & Parent/Guardian

MIND +









#### **GEL JABS**

#### HOW PIONEERING HYDROGELS FIGHT INFECTION AND DISEASE

SATURDAY 25 FEBRUARY 11AM-12PM

MEDICAL BIOLOGY CENTRE
QUEEN'S UNIVERSITY BELFAST

ener

Find out how scientists at Queen's University Belfast are leading the way in the fight against infection and disease with innovative hydrogels which do everything from killing hospital infections to improving how medicine is delivered.

Made from peptides - short chains of amino acids known as 'nature's building blocks' - these versatile gels mimic human tissues and are now being used to address the greatest medical challenges. Find out how treatment delivery can be improved by injecting 'peptide-plus-drugs' into the body, forming a drug-releasing gel implant under the skin. This supergel works for several weeks, so patients don't have to take multiple daily pills.

Used to deliver antiviral drugs to treat or prevent HIV/AIDS, hydrogels are the next frontier in medicine...

Age guidance: All Ages





### COSMIC CONSERVATION

ASTRONOMY & THE ANTIQUES

SATURDAY 25 FEBRUARY 11AM & 3PM

ARMAGH PLANETARIUM FREE (WITH A DONATION TO STUDENT FUND)

What does the conservation of antique telescopes and the creation of new stars have in common..? Join PhD students and museum staff from Armagh Planetarium to discover how the science of historical conservation and astronomy overlaps. From caring for old photographs and the colours of the stars, to reading handwriting from the 1700s and interpreting data, we'll be demonstrating both science - and how we apply it to our own collection - side-by-side.

Age guidance: 10+

SPACE

### THE MAGIC OF MICROSCOPY

SATURDAY 25 FEBRUARY 11AM-11:30AM

ADVANCED IMAGING CTU, WWIEM/CEM BASEMENT QUEEN'S UNIVERSITY BELFAST

FREE

#### Also taking place on Sunday 26th February

Take a look under the microscope in this behind-the-scenes tour of the Imaging Facility within the faculty of Medicine, Health and Life Sciences at QUB and see first-hand the state-of-the-art equipment being used in cutting-edge research within the medical field. With the chance to see a biological sample viewed under increasingly complex microscopes - and the specialist analysis software used to interpret it - this is a great opportunity to find out why microscopy is so vital to medical research.

Age guidance: 16+

MIND + BODY



### COSMIC DANCE PARTY

SATURDAY 25 FEBRUARY 10AM-11AM

GIRDWOOD COMMUNITY HUB BELFAST

£3

Every minute of the day, our planet is gliding smoothly along its celestial path through sparkly Outer Space, with stars, comets and galaxies appearing to fly past on our annual cosmic journey around the Sun... Come along and explore this journey with Dr Liz Conlon. You'll find out just what's happening out there in Space and relive what's been going on since the day you were born.

Happy dancing is welcomed!

Age guidance: 5+

SPACE





#### EOGHAN DALTUN -AN IRISH ATLANTIC RAINFOREST:

A PERSONAL
JOURNEY INTO
THE MAGIC OF
REWILDING

SATURDAY 25 FEBRUARY

ULSTER UNIVERSITY
BELFAST

Discover what happens when you let nature grow wild ...

Fulfilling his ambition to rewild a 73-acre farmland in West Cork, author Eoghan Daltun will share fascinating insights from his new book on how he established a flourishing Irish rainforest on the Beara Peninsula.

Inspiring both in its creation and in the conversations it invites us to have about how we interact with our environment, *An Irish Atlantic Rainforest* shows what can be achieved simply by letting nature do what it does best.

Combining memoir with some of the pertinent environmental issues facing us today, this is a story infused with passion, determination and, not least perhaps, a little bit of hope...

This event is part of SIREN23 in Ulster University.

Age guidance: 6+

ENVIRONMENT + NATURE

### ERICA MCALISTER THE FASCINATION OF FLIES

SATURDAY 25 FEBRUARY

CRESCENT ARTS CENTRE BELFAST

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When most people think of museums they think of bones and stones – long-dead specimens from times gone by. Museums, however, are not static institutions but dynamic research centres focusing on the many current research topics which impact all of us on this planet.

In this captivating talk, Dr Erica McAlister will take you behind the doors of the fly department at London's Natural History Museum, discussing some of the Diptera (fly) research that's helping us unlock the answers to all sorts of questions. From studying mosquitoes in Africa and those found under London, to giving flies a bath and blowdry to extract historic DNA - and trying to figure out where our summer migrants come from – she'll cover all this and more.

Join us for this fascinating introduction to an insect which might just surprise you and find out how flies are assisting us with everything from climate change to the study of disease transmission.

Age guidance: 12+

ENVIRONMENT + NATURE



### FAMILY COASTAL WORKSHOP & CLEAN-UP

SATURDAY 25 FEBRUARY 11AM-12:30PM

MAGILLIGAN POINT LIMAVADY

FREE

Explore the great outdoors with our family-friendly coastal discovery day - a great way to learn more about the biodiversity around the mouth of Lough Foyle and to get up close and personal with nature. From beachcombing and identifying shells and sea birds, to looking at the unique make-up of the tidal zones, this event will offer a great overall insight into our coastline.

You'll also find out why it's so important to keep our coasts clean and how we can help nature thrive by joining us in a coastal cleanup. This is a great chance to learn more about our coasts and to inspire the next generation of environmentalists.

Age guidance: All Ages

ENVIRONMENT + NATURE



#### **SENSING THE CITY**

SATURDAY 25 FEBRUARY 1PM-4PM

CCA DERRY / LONDONDERRY

FREE

Facilitated by artist Jane Butler, Sensing the City combines art, mindfulness, psychology and science...

We all experience and perceive our external environments in a multi-sensory way. This workshop will subsequently explore space and place through embodied, hyper-sensual experience, activated by an urban walk through the city of Derry/Londonderry which includes various sensory activities.

Following the walk, which leaves from the gallery, you'll then get the chance to use the sensory data you collected in an activity once you return, as well as getting an insight into Jane's research and artistic practice.

Age guidance: 18+

ART + SCIENCE

CCA DERRY~ LONDONDERRY







#### HELEN SCALES

### THE BRILLIANT ABYSS

SATURDAY 25 FEBRUARY 1PM-2PM

ULSTER UNIVERSITY BELFAST

£3

True Tales of Exploring the Deep Sea, Discovering Hidden Life and Selling the Seabed

Delve into the deep with marine biologist, Dr Helen Scales, as she explores the living wonders in the greatest ocean depths. The Brilliant Abyss shows just how far people have gone to exploit the sea - for knowledge and profit - and the perils it currently faces. Our collective footprint in the deep sea is increasing, but there are ways we might remedy that going forward...







### MARK LANGTRY FOOTBALL PHYSICS

SATURDAY 25 FEBRUARY 11AM & 1:30PM

GIRDWOOD COMMUNITY HUB BELFAST

£0 - £3

Join physicist, TV presenter and former professional footballer, Mark Langtry, aka 'Mark the Science Guy', on a highly interactive investigation into the science and technology behind the beautiful game! Discover how the world's greatest footballers use science to gain the competitive edge and the role scientists and engineers play in the greatest show on earth - the World Cup!

Packed full of challenges, demonstrations, experiments, skills and mucho thrills, this show will reveal how science can improve your performance both on and off the pitch.

Age guidance: All Ages

SCIENCE COMMUNICATION





### **JURASSIC PARK**30TH ANNIVERSARY SCREENING

SATURDAY 25 FEBRUARY 6PM-8.30PM

ULSTER MUSEUM, BELFAST & NERVE CENTRE, DERRY

£3 / £5

In Steven Spielberg's massive blockbuster, palaeontologists Alan Grant (Sam Neill) and Ellie Sattler (Laura Dern) and mathematician lan Malcolm (Jeff Goldblum) are among a select group chosen to tour an island theme park populated by dinosaurs created from prehistoric DNA. While the park's mastermind, billionaire John Hammond (Richard Attenborough), assures everyone that the facility is safe, they find out otherwise when various ferocious predators break free and go on the hunt.

Introduction by Prof Ben Garrod.

Age guidance: 10 +

ENVIRONMENT + NATURE





#### LUMI PRESENTS

#### **POSSIBLE** WORLDS

**SATURDAY 25 FEBRUARY** 6PM-9PM

QUEEN'S FILM THEATRE ADULT £8.40 BELFAST LUMI (18-26) £4.50

Possible Worlds is an intergalactic cinema experience from the LUMI Programmers at Queen's Film Theatre which explores the evolution of astrobiology (aliens!) in film. Starting with the first-ever sci-fi film, you'll take A Trip to the Moon (1902) with the legendary Georges Méliès, before journeying back to the present with critically acclaimed sci-fi film, Arrival (2016) on the big screen.

Guiding you on this interplanetary adventure will be intrepid LUMI Programmers. Katherine Harris and Fionntán Macdonald, who will introduce a talk by QUB professor, Prof Francis Keenan, before the screenings. This will look at the science behind the depictions of both extraterrestrials and humans in some of our favourite films. Join us for an out-of-this-world evening of spectacular space science!

Age guidance: 18+

SPACE



#### ROCKETS, STARS, **PLANETS & METEORITES**

SATURDAY 25 FEBRUARY 3:30PM

LOUGH NEAGH **DISCOVERY CENTRE** 

FREE

Join the Irish Astronomical Association for an interactive afternoon of making and launching compressed air/water-powered rockets, solar observing and an exhibition of meteorites and telescopes.

As day turns to night we then turn to the skies for an evening of observing the Moon, planets, stars, nebulae, star clusters and galaxies, An event not to be missed in one of NI's most untouched areas.

Age guidance: 8+

SPACE

#### **THE ART & SCIENCE OF INTERFERENCE PATTERNS**

**SATURDAY 25 FEBRUARY** 7PM-9PM

THE PLAYHOUSE DERRY / LONDONDERRY

£5

#### Free admission for under-18s and students.

Join Dr Rob Casey (composer and Lecturer in Composition, Performance and Experimental Music at Ulster University) to explore the psychoacoustic experience of interference patterns that arise between sounds of slightly different frequencies. Using sine tones, acoustic instruments and a multi-channel immersive sound system, the event will introduce audiences in a hands-on way to the ideas of acoustics, psychoacoustics and audio perception. SCIENCE

Age guidance: 14 +





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### PADDLE WITH A PURPOSE

SUNDAY 26 FEBRUARY

STRANGFORD LOUGH
ACTIVITY CENTRE, KILLINCHY £40

Paddle with a Purpose and do your bit for the environment as you join us on a guided kayak tour and island clean-up on Strangford Lough. As an Area of Outstanding Natural Beauty (AONB), Marine Nature Reserve (MNR) and Site of Special Scientific Interest (SSSI), Strangford Lough is home to more than 2,000 species of wildlife.

We'll subsequently chat about the importance of 'Leave No Trace' and the repercussions of damage to our coastal wildlife and habitats. Our instructors will also share their expertise and some local history, as well as helping with wildlife-spotting. Upon reaching our destination, you'll be free to explore the islands respectfully, collecting rubbish en route, before we finish up with some well-deserved toasted marshmallows and hot chocolate.

Age guidance: 10+

ENVIRONMENT + NATURE



#### **STAR DOME**

SUNDAY 26 FEBRUARY

BELCOO COMMUNITY CENTRE ENNISKILLEN

E 7

Join the Cuilcagh Lakelands and Armagh Planetarium for a joint family fun event! Not only will you get to step inside the Star Dome and see the Armagh Planetarium on tour, but you can participate in a hands-on meteorite experiment and see some real meteors before making your very own space-themed arts and crafts to take home with you!

Age guidance: All Ages

SPACE



SUNDAY 26 FEBRUARY — 96



SUNDAY 26 FEBRUARY

WHITLA HALL, QUEEN'S UNIVERSITY BELFAST

£10 / £8

For as long as there have been species, there has been extinction. What causes it? Why do some species go extinct and what can we do to save endangered species? Join Prof. Ben Garrod as he explores how extinction is one of the most complex, interesting and evolving topics. Writing about the most devastating mass extinctions to have affected the planet and life on it, Ben explores what happened to the world's first super-predator, why one of the most successful animals of all time went extinct and how the mighty Tyrannosaurus Rex was killed by a huge asteroid.

Age guidance: 6+

SCIENCE COMMUNICATION



#### LEGENDARY TELESCOPES TOUR

SUNDAY 26 FEBRUARY

ARMAGH OBSERVATORY

£15

Discover the stories behind the science as our expert guide tells you all about the legendary telescopes of the Armagh Observatory and Planetarium and their pioneering roles back in the day.

You'll have the chance to get your picture taken with the Grubb 10-inch that was instrumental in creating a fundamental star catalogue - and is still used by astronomers today - as well as getting up close and personal with the century-old Calver telescope. Be inspired by the unique stories along the way and discover why Armagh truly is the Celestial City.

Age guidance: 18+

HISTORY + SOCIETY





#### HIVESPLAINING THE SEA

SUNDAY 26 FEBRUARY

THE COURTHOUSE BANGOR

£8

HIVE are back with their HIVEsplaining concert series! After making a splash at last year's NISF, this year, HIVE sails into the coastal town of Bangor to present a brand new nautical show - 'HIVEsplaining: The Sea'!

Belfast's resident weirdo singing crew is ready for a musical deep-dive into marine science. HIVE have been sticking their oars in, surfing the web and trawling through oceans of information on all things aquatic.

Wave goodbye to shallow songs and coasting crooners - HIVE will have you submerged in alternative musical notation, improvisation and sound games - all shored up with some shanties and maritime melodies.

So hop aboard the Good Ship HIVE - whether they sink or swim, it'll all be swell!

Age guidance: All Ages

ART + SCIENCE

SUNDAY 26 FEBRUARY — 98



#### **SCIENCE TRAIL**

SUNDAY 26 FEBRUARY

PLAYTRAIL
DERRY / LONDONDERRY

67

Join us for the closing of the North West element of the NI Science Festival, at our fun-filled day for all the family, with lots of workshops, demos, activities and shows at the Playtrail. Please note that some activities will be outside, so please wrap up warm and prepare for all elements. The event will include:

- Mark The Science Guy!
- Mini Professors
- Walk About with Prof Lukey Luke
- The Loughs Agency
- World of Owls
- VR Demonstrations
- Nerve Centre CLC Demonstrations

Age guidance: All Ages

SCIENCE COMMUNICATION





### HELEN SCALES WHAT A SHELL CAN TELL

SUNDAY 26 FEBRUARY

ULSTER MUSEUM BELFAST

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Why are some shells spiky and some shells smooth? Why do some live underwater and others up in trees? What exactly do their patterns and colours mean and why on earth do some shells emit flashing lights..?

From seashells to those found on land, it seems a shell can tell you a lot - and marine biologist, Dr Helen Scales, has gathered up all sorts of fascinating facts about molluscs in her latest book *What a Shell Can Tell*.

Join Helen to find out more about these quirky little creatures and learn how to read the stories of shells - then find out all about oyster restoration and see the shells up close with Ulster Wildlife!

Age quidance: 6+

ENVIRONMENT
+ NATURE



#### **LET'S REVAMP TEA!**

SUNDAY 26 FEBRUARY

CRESCENT ARTS CENTRE BELFAST

£1!

Many of us drink tea every day, but despite being one of the Nation's favourite beverages, this popular brew often blends into the background and is viewed as being a bit, well, boring... So, why not join the experts from NI's inaugural Tea Bar, INFUSE, as they show you how to revamp the wonderful world of tea!

This event will look at the history of tea, with our tea connoisseurs revealing interesting ways in which you can get creative with your blends. They'll also demonstrate how temperature and filtering your water impacts the taste of tea, offering samples so you can savour the difference first-hand.

From tea mocktails and tea-infused foods, to pairing particular teas with certain foods, you'll rediscover the delights of tea-making!

Age guidance: 18+









### STEAMING KIDNEYS:

WHERE SCIENCE AND ART COLLIDE

SUNDAY 26 FEBRUARY

ACCIDENTAL THEATRE BELFAST

-

An increasing number of people are diagnosed with kidney disease, with one billion affected worldwide, impacting both patients and their families. To gain new insights into this condition and improve the quality of life of those affected, researchers today are taking novel and diverse approaches that unite the worlds of art and science!

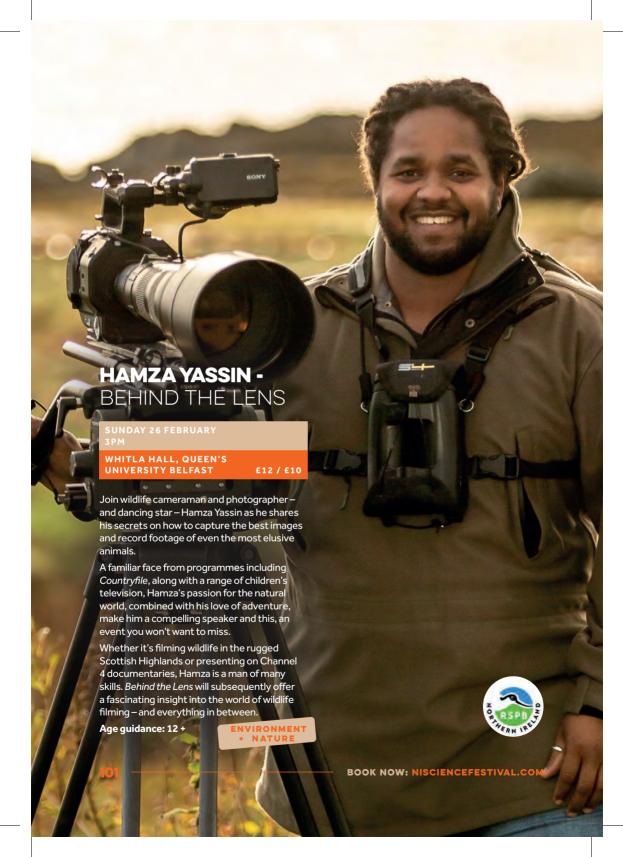
Come see the fruits of these collaborations and hear from the QUB scientists who are studying kidney disease genetics to aid the development of new diagnostics and therapeutics. Learn how the QUB Renal Arts Group works with patients, carers, doctors, scientists and artists to advance the physical and mental wellbeing of those living with kidney disease.

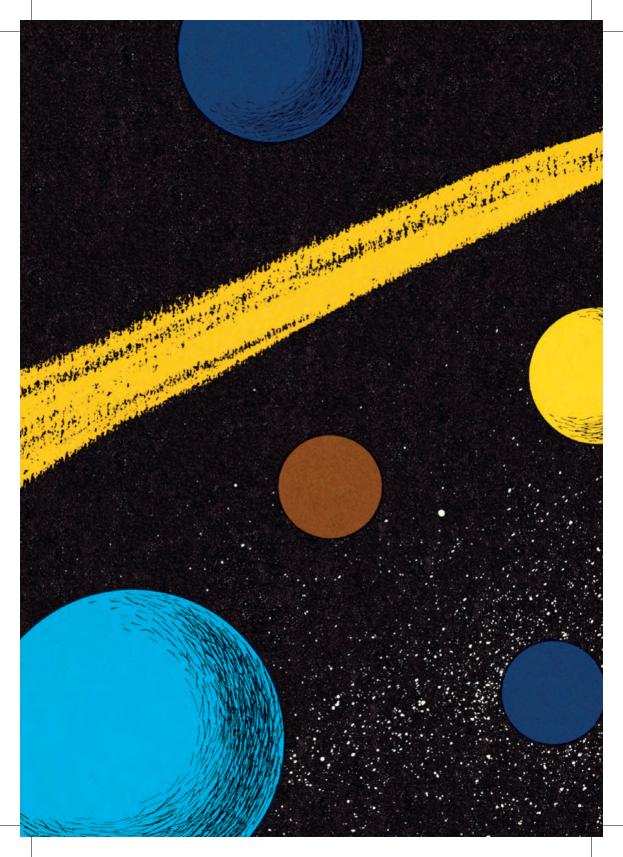
Refreshments will also be provided.

Age guidance: All Ages

ART + SCIENCE

SUNDAY 26 FEBRUARY 100







#### AFBI RESEARCH VESSEL TOURS

MONDAY 20 FEBRUARY FRIDAY 24 FEBRUARY

QUEEN'S QUAY
TITANIC QUARTER BELFAST

FREE

The popular Agri-food and Bioscience Institute (AFBI) Research Vessel - the R.V. Corystes - will open its doors once again to welcome aboard members of the public as part of the NI Science Festival 2023. Join one of the hourly tours and climb on board for a tour of the ship, where you'll meet the crew and scientists and find out what they do when they go to seal

Tours last 35-40 minutes and must be booked in advance. Unfortunately, the ship cannot accommodate children or adults who are unable to walk unaided, due to the steep, narrow steps between decks. Please note: no high heels are permitted on board.

All children must be accompanied by an adult. Not accessible for wheelchairs or for people with mobility issues.

#### **BOOKING ESSENTIAL**

Age guidance: All Ages



### NISF REGIONAL ROADSHOW 2023

**BRAINTASTIC!** 

THURSDAY 16 FEBRUARY ROE VALLEY ARTS & CULTURAL CENTRE, LIMAVADY 12PM (THAT'S NON SENSE) 2:30PM (HACK YOUR BRAIN)

FRIDAY 17 FEBRUARY
THE OLD COURTHOUSE, ANTRIM
12PM (THAT'S NON SENSE)
2:30PM (HACK YOUR BRAIN)

SATURDAY 18 FEBRUARY STRULE ARTS CENTRE, OMAGH 12PM (THAT'S NON SENSE) 2:30PM (HACK YOUR BRAIN)

SUNDAY 19 FEBRUARY AONACH MHACHA IRISH LANGUAGE AND CULTURAL ENTERPRISE CENTRE, ARMAGH 12PM (THAT'S NON SENSE) 2:30PM (HACK YOUR BRAIN)

TICKETS: £7

#### That's Non Sensew

Explore the wonderful world of our senses and the tricks they play on us. Think you see with your eyes and taste with your tongue? Ever wondered why you get dizzy when you spin? How many senses do you even have? Prepare to be amazed and confounded by sensory and optical illusions in this demo-packed exploration of your brain, as we discover your senses aren't quite as simple as they seem...

#### **Hack Your Brain**

A whirlwind introduction to the brain and nervous system! Packed with memorable large-scale demos, you'll create a giant neuron live on stage to explore how nerve cells communicate. Then, watch as we hijack those signals to control someone's movements (preferably a teacher!)! Along the way we'll investigate what this tells us about how we learn, helping students to understand their brains better and how to make the most of them.

Age guidance: 6+

SCIENCE COMMUNICATION





#### APIS MELLIFERA, THE HONEY BEE

AN EXHIBITION BY RAYMOND WATSON

ONGOING THROUGHOUT FESTIVAL 11AM-6PM (TUE-FRI) 12DM-5PM (SAT)

ARTISANN GALLERY BELFAST

FREE (NO BOOKING REQUIRED)

Belfast-born artist Raymond Watson's exhibition reflects on the importance of bees to mankind and life on earth.

Raymond has been studying the behaviour of the bees in his own apiary for many years. He has created a show that subsequently explores the life of the bees in many forms from sculpture and soundscapes to paint.

Bronze casts have been created using the insides of living bee hives...

Soundscapes have been composed using original recordings of bee sounds from inside and outside the hives.

Raymond is best known for *Hands of History*, for which he made bronze casts of the hands of people involved in the peace process in Northern Ireland, including John Hume, David Trimble, John Hume, Monica McWilliams, Mo Mowlam and Tony Blair.

Age guidance: All Ages





### STEM #UNFILTERED PHOTOGRAPHY COMPETITION 2022

ONGOING THROUGHOUT FESTIVAL 10AM - 6PM

2 ROYAL AVENUE, BELFAST FREE
(NO BOOKING REQUIRED)

Photography is a powerful medium for sharing the many ways in which science and technology play key roles in our daily lives.

The STEM #Unfiltered 2022 competition, run by the School of Maths and Physics and by IoP Ireland, subsequently celebrates this by showcasing the very best images from across Science, Technology, Engineering and Maths (STEM). Captured by curious people of all ages from across Ireland and Northern Ireland, these are photographs that reveal the beauty and wonder behind their unique subject matter.

Our entrants shared their amazing photos with us over Summer 2022 and we're delighted to exhibit the winning entries from the different age categories. Join us to marvel at their pictures and be inspired by the science all around you!

The full winner's gallery can be viewed here: http://go.qub.ac.uk/ STEMUnfilteredGallery2022

Age guidance: All Ages



### NURSING AND MIDWIFERY

PROFESSIONS FOR ALL

CHECK LOCAL LIBRARIES FOR DATES

VARIOUS LIBRARIES
ACROSS NORTHERN IRELAND

FREE

Come along to your local library for readings from two great new books - Victor and the Virus and Marcus has the Surprise of his Life. Telling the stories of two boys who realise that becoming a hero can mean being a nurse - or a midwife - these inspiring tales will encourage kids to think more openly what they could become in the future.

Written by experts from the School of Nursing and Midwifery at Queen's University Belfast, QUB staff will perform the readings at various libraries throughout Northern Ireland. Whether you're male, female or non-binary, nursing and midwifery is for everyone and might just be for you...

Age guidance: 6-14 Yrs

MIND +



#### **FILMS @ NISF**

ONGOING THROUGHOUT FESTIVAL

VARIOUS LOCATIONS THROUGHOUT NI

твс

The Festival will team up for a series of films in community cinemas.

ART + SCIENCE

EVENTS & EXHIBITIONS — 106



#### **JOIN THE GREAT CART CITIZEN SCIENCE PROJECT**

SCHOOL OF BIOLOGICAL **SCIENCES FOYER** QUEEN'S UNIVERSITY BELFAST FREE

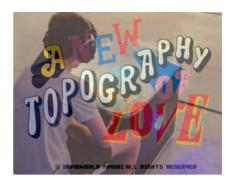
The Great Citizens' Antimicrobial Resistance Together (CART) project is a citizen science project which raises awareness and contributes to the important research happening in the area of Antimicrobial Resistance (AMR) by engaging the public as researchers.

AMR affects everyone and is a threat to humans, animals, plants and the environment, therefore, fighting AMR is a truly global endeavour where everyone must join forces.

Together, we can uncover the AMR in as many organisms as possible in our ecosystem before they cause disease and get better equipped to diagnose, treat and reduce AMR.

Age quidance: All Ages





#### **NEW TOPOGRAPHY** OF LOVE PART II

FOYLESIDE. DERRY / LONDONDERRY **ULSTER UNIVERSITY, BELFAST** 

Installed in vintage console arcade gaming tables, A NEW TOPOGRAPHY OF LOVE PART II tells a tale of climate & environmental destruction. The earth, ravaged by waste and excess, is almost too late to save. The animals that remain become our teachers, reminding us of the essence and importance of living within our means.

The piece plays out across five-interactive musical & gaming levels. Imagine Super Mario Brothers meets Mario Lanza, Mickey Mouse, whales, bats, birds, and Jeff Bezos all battling it out for the future of our very own planet earth.

Composer Brian Irvine, writer & director John McIlduff, artist Stephen Maurice Graham, classical musicians & opera singers from throughout Ireland combine to create a bold new videogame / opera experience.

Age guidance: All Ages

SCIENCE

FREE

THURSDAY 16 FEBRUARY				
Feeling the Heat: Belfast Heat and Climate Change Walking Tour	Ormeau Park, Belfast (Starting Point)	10am	Environment & Nature	
Wrightbus Behind-the-scenes Factory Tour	Wrightbus, Ballymena	10:30am	Engineering & Robotics	
Create Your Very Own Platform Game in Scratch 3.0	Nerve Centre, Derry/Londonderry	10am	Create. Make. Play.	
Mid Ulster Mega Factory Tours	Various	From 10am	Engineering & Robotics	
STEM Fleming Agri-Products Factory Tour	Fleming Agri Products, Derry/Londonderry	10:30am & 2pm	Engineering & Robotics	
Shoot for the Stars	Armagh Planetarium	10:30am	Space	
Grace's Green Gadgets!	The MAC, Belfast	11am & 2:30pm	Engineering & Robotics	
Nature Friendly Farming in Action with Ballyboley Dexters	Orlock Farm, Bangor	11am	Environment & Nature	
A Beginner's Guide to the Science of Compost	Hillsborough Castle	11am & 1:30pm	Environment & Nature	
The Marvel of Cleaning Water	Silent Valley Reservoir, Kilkeel	11am	Environment & Nature	
Regional Roadshow - That's Non Sense	Roe Valley Arts & Cultural Centre, Limavady	12pm	Mind & Body	
Kyle D Evans - Maths Tricks to Blow Your Mind	Crescent Arts Centre, Belfast	12pm & 2:30pm	Maths & Physics	
Regional Roadshow - Hack Your Brain	Roe Valley Arts & Cultural Centre, Limavady	2:30pm	Mind & Body	
My Year of Living Mindfully	Flowerfield Arts Centre, Portstewart	7pm	Mind & Body	
The Physiology of Relaxation	The Playhouse, Derry/ Londonderry	7pm	Mind & Body	
Living Autopsy	Crescent Arts Centre, Belfast	7pm	Mind & Body	
The Geological Story of Carrickfergus and South-east Antrim - 250 Million Years in the Making	Carrickfergus Town Hall	7pm	Environment & Nature	
Astronomy and Poetry with Dame Jocelyn Bell Burnell	W5, Belfast	7:30pm	Space	
2040 - Film Screening	The Playhouse, Derry/Londonderry	7:30pm	Environment & Nature	
Kyle D Evans - Born to Sum	The Union Bar @ One Elmwood, Queen's University	8pm	Maths & Physics	

FRIDAY 17 FEBRUARY				
How clean is your phone? Idea Jam Painting with Light	Ulster University, Belfast Belfast Nerve Centre,	10am 10am 10am	Mind & Body Tech & Innovation Art & Science	
Spark your interest in the art of Blacksmithing	Derry/Londonderry Patterson's Spade Mill, Templepatrick	10am, 11:30am, 1:30pm & 3pm	Art & Science	
Why Zoo Breeding Programmes Are	Belfast Zoo	10:15am	Environment & Nature	

FRIDAY 17 FEBRUARY			
Grace's Green Gadgets!	Waterside Theatre, Derry/Londonderry	11am & 2:30pm	Engineering & Robotics
From Grey Wolves to Grey Squirrels	Ulster Museum, Belfast	11am & 2pm	History & Society
Astro Parks Tours	Armagh Planetarium	11:45am, 12:45pm & 1:45pm	Space
The Clever Celts!	Navan Centre & Fort, Armagh	10:30am, 12:30pm & 2pm	History & Society
Regional Roadshow - That's Non Sense	The Old Courthouse, Antrim	12pm	Mind & Body
Bakineering: From A - B	The MAC, Belfast	12pm	Food For Thought
Mid-Ulster Mega Factory Tours	Maghera	1pm	Engineering & Robotics
A (Very) Short History of Life on Earth	The Black Box, Belfast	1pm	Environment & Nature
Wild About Kilbroney Park	Kilbroney Park	1pm	Environment & Nature
Madeleine Finlay - Beetles for Breakfast	Crescent Arts Centre, Belfast	2pm	Science Communication
Regional Roadshow - Hack Your Brain	The Old Courthouse, Antrim	2:30pm	Mind & Body
The Science of DMT & Ayahuasca	The MAC, Belfast	Face	Mind C Dada
Dark Skies and Night Owls	Rathlin Island	5pm Various	Mind & Body  Art & Science
Rory Friers - Behind the Sound	Sonic Arts Research Centre, Queen's University Belfast	7pm	Art & Science Art & Science
The Science of Magic Mushrooms	The MAC, Belfast	7:30pm	Environment & Nature
Rohin Francis - Human Body: Design Disaster	The Black Box, Belfast	8pm	Mind & Body

SATURDAY 18 FEBRUARY				
International Synth Design Hackathon	Sonic Arts Research Centre, Queen's University Belfast	9am	Create. Make. Play.	
SIREN23	The Playhouse, Derry/Londonderry	10am	Environment & Nature	
Bricks 4 Kidz Workshops	Armagh Planetarium	10am	Create. Make. Play.	
A Brush With Technology	The MAC, Belfast	10am	Art & Science	
Light, Matter, Action!	Ulster Museum, Belfast	10am	Maths & Physics	
Paddle Back in Time – The Monks, the Vikings and the Smugglers of Strangford Lough	Strangford Lough Activity Centre, Killinchy	10am	History & Society	
Introduction to Glaze Chemistry	Flowerfield Arts Centre, Portstewart	10am	Art & Science	
It's all in the mind! How Your Thinking Affects Your Life	Flowerfield Arts Centre, Portstewart	10am	Mind & Body	
Pond dipping in Cladagh Glen	Cladagh Glen, Fermanagh	10am	Environment & Nature	
Maritime Mile Science of Photography Tour	SoundYard, Titanic Quarter, Belfast	10:30am	Create. Make. Play.	
Queen's Biology Showcase	QUB School of Biological Sciences, Belfast	10:30am	Environment & Nature	
Cyanotype Family Workshop	Hillsborough Castle	10:30am, 12pm, 1:45pm & 3pm	Art & Science	

SATURDAY 18 FEBRUAR	Υ		
The Snail & The Whale	The Portrush Playhouse & Portrush Coastal Zone	11am & 12:30pm	Create. Make. Play.
Regional Roadshow - That's Non Sense	Strule Arts Centre, Omagh	12pm	Mind & Body
Fizzy Fun Lab - Acids and Alkalis!	Holywood Arches Library, Belfast	11am	Create. Make. Play.
Historical Wreck Tour	Ballycastle Harbour	11am	History & Society
An Anatomical Workshop on Respiration and Deglutition (Breathing and Swallowing)	MBC, Queen's University Belfast	11am	Mind & Body
Mass of Roots	Ulster Transport Museum, Cultra	11am	Environment & Nature
Bakineering: From A - B	The Playhouse, Derry/Londonderry	12pm	Food For Thought
Science with Dr Xand	The MAC, Belfast	12pm & 3pm	Mind & Body
Sounding Belfast During Covid-19 - Walking Tour	Albert Memorial Clock, Belfast - Meeting Point	12pm	Art & Science
JAM 4	Sonic Arts Research Centre, Queen's University Belfast	12pm	Create. Make. Play.
Life in a Car Park/Saol sa Charrchlós	139 - 127 Royal Avenue, Belfast	12pm	Environment & Nature
Underwater Robots	Portrush Harbour	1pm	Environment & Nature
Biomedical Research in Action!	Wellcome-Wolfson Institute for Experimental Medicine, Queen's University Belfast	1pm	Mind & Body
So You Want to be a Biomedical Scientist?	Wellcome-Wolfson Institute for Experimental Medicine, Queen's University Belfast	1:30pm & 3pm	Mind & Body
Wild About	Delamont Country Park	1pm	Environment & Nature
Fizzy Fun Lab - Acids and Alkalis!	Colin Glen Library, Belfast	1:30pm	Create. Make. Play.
Soil - A Time Capsule	QUB School of Biological Sciences, Belfast	1:30pm	Art & Science
The Whole Scope of Sky - Underrepresented Voices in Science Writing	Ulster Museum, Belfast	2pm	Art & Science
Madeleine Finlay - Beetles for Breakfast	The Playhouse, Derry/Londonderry	2pm	Science Communication
Benjamin Black - Belly Woman: Birth, Blood & Ebola	The MAC, Belfast	2pm	Mind & Body
Digital Twins - Where Al meets IoT	Ulster University, Belfast	2pm	Tech & Innovation
The Science of Cinema	Strand Arts Centre, Belfast	2pm	Tech & Innovation
Regional Roadshow - Hack Your Brain	Strule Arts Centre, Omagh	2:30pm	Mind & Body
Dark Skies and Night Owls	Rathlin Island	Various	Art & Science
Rory Friers - All Around Us	Sonic Arts Research Centre, Queen's University Belfast	7pm	Art & Science
The Science Behind Curling: Throwing Rocks at Houses	W5 LIFE, Belfast	7pm	Science Communication
Springtime Night Sky Observing	OM Dark Sky Park, Omagh	7pm	Space
Drag Me to the Lab: Queens Only!	The Black Box, Belfast	8pm	Science Communication
Kathryn Harkup - Superspy Science	Bishop's Gate Hotel, Derry/Londonderry	8pm	Tech & Innovation

SUNDAY 19 FEBRUARY			
Light, Matter, Action!	Ulster Museum, Belfast	10am	Maths & Physics
A Brush With Technology	The MAC, Belfast	10am	Art & Science
Magical Sounds	Sonic Arts Research Centre, Queen's University Belfast	11am	Art & Science
Figments	Sonic Arts Research Centre, Queen's University Belfast	12pm	Art & Science
How to find love, lose weight & live forever without really trying!	Whitla Hall, Queen's University, Belfast	12pm	Mind & Body
Life in a Car Park/Saol sa Charrchlós	139 - 127 Royal Avenue, Belfast	12pm	Environment & Nature
Regional Roadshow - That's Non Sense	Aonach Mhacha / Irish Language and Cultural Enterprise Centre, Armagh	12pm	Mind & Body
Jurassic Roar!	Alley Theatre, Strabane	12pm & 3pm	Environment & Nature
Paddle Back in Time – Traders, Pilgrims and Vikings on the River Quoile	Quoile Bridge, Downpatrick	1pm	History & Society
Pragya Agarwal - Hysterical: Exploding the Myth of Gendered Emotions	Crescent Arts Centre, Belfast	2pm	Mind & Body
The Merchants Who Grew a City	The Big Fish, Belfast - Meeting Point	2pm	History & Society
Regional Roadshow - Hack Your Brain	Aonach Mhacha / Irish Language and Cultural Enterprise Centre, Armagh	2:30pm	Mind & Body
Dr Maggie Aderin-Pocock - Am I Made of Stardust?	Whitla Hall, Queen's University, Belfast	3pm	Space
David Robson - The Expectation Effect: How Your Mindset Can Transform Your Life	Crescent Arts Centre, Belfast	5pm	Mind & Body
Dark Skies and Night Owls	Rathlin Island	Various	Art & Science
Kathryn Harkup - Superspy Science	The Black Box, Belfast	8pm	Tech & Innovation

MONDAY 20 FEBRUARY				
Embodying a Virtual Reality Experience of Claiming Asylum	School of Psychology, Queen's University Belfast	11am	Tech & Innovation	
Beauty, Books & Botany	Rowallane Garden, Saintfield	6:30pm	Environment & Nature	
David Robson - The Expectation Effect: How Your Mindset Can Transform Your Life	Nine Hostages, Derry / Londonderry	7pm	Mind & Body	
NISF Climate Tour	Linen Hall Library, Belfast	7pm	Environment & Nature	
Carbon and Costs – What Might We be Able to Do to Our Homes?	Ulster University, Belfast	7pm	Tech & Innovation	
Anne-Marie Imafidon - She's In CTRL	Crescent Arts Centre, Belfast	7pm	Science Communication	
Mensa Magnificent Monday Quiz	The Black Box, Belfast	7:30pm	Science Communication	

#### **TUESDAY 21 FEBRUARY**

Forage & Dine with Paul Cunningham

Climate Emergency Department

Health & Wealth: Why should cities invest in health innovation?

A World of Wounds - The Last Ice Age Giants & the Making of the Anthropocene

Hana Walker-Brown - A Delicate Game: Brain Injury, Sport and Sacrifice

NISF Climate Tour

Jim Al-Khalili - The Joy of Science

Scoper's Dundrum

MBC, Queen's University Belfast

ECIT. Belfast

Ulster Museum, Belfast

Crescent Arts Centre, Belfast

Down County Museum, Downpatrick

Mandela Hall, Queen's University Belfast

Food For Thought

Mind & Body

3pm

10am

1pm

2pm

6:30pm

7:00pm

7:30pm

3pm

5:30pm

6nm

7pm

7pm

7pm

7pm

7pm

7:30pm

Tech & Innovation

**Environment & Nature** 

Science Communication

**Environment & Nature** 

Maths & Physics

#### **WEDNESDAY 22 FEBRUARY**

The Digital Health Future: Will Digital Technologies & Artificial Intelligence Change Our Health?

Behind the Scenes Conservation Tour of Hillsborough Castle

Sir Bernard Crossland Annual Lecture with Professor Keith Rell

Can You Test How Fit Your Brain Is?

The Science of Superheroes in Film & Television

Brian Butterworth - Can Fish Count?

From Crumlin to Chelyabinsk: Tales told by meteorites

NISF Climate Tour

Revenge: A Dish Best Served Cold?

Tenx9

Ulster University, Belfast

Hillsborough Castle

Riddel Hall, Queen's University Belfast

W5 LIFE. Belfast School of Maths & Physics, Queen's University Belfast

Ulster University, Belfast

Ulster Museum, Belfast

Armagh Planetarium

The Black Box Belfast

Crescent Arts Centre, Belfast

1pm Tech & Innovation

History & Society

Engineering & Robotics

Mind & Body

Art & Science

Mind & Body Space

Environment & Nature

Mind & Body

Art & Science

#### **THURSDAY 23 FEBRUARY**

Brain in a Box - Make a Brain. Put it in a Box and Take it Home

Caoimhe Rooney - Mathematigals Nature-Friendly Linen Production at Mallon Farm

FIsa Panciroli - The Beasts Refore Us

Rendr Festival 2023

The Science of Dreams

Hearts & Crafts

Ulster University, Belfast

Mallon Farm, Tyrone

Ulster Museum Belfast Portview Trade Centre, Belfast

The MAC, Belfast MBC, Queen's University Relfast

10:30am

11am 11am

7pm

5pm

5pm

6:30pm

Maths & Physics **Environment & Nature** 

Mind & Body

Environment & Nature Tech & Innovation

Mind & Body

Art & Science

THURSDAY 23 FEBRUARY				
Yoga for a Biological Organism	Nerve Centre, Derry/Londonderry	7pm	Mind & Body	
StarTracker Music Night - From Mercury with Love with Dr Rok	Armagh Planetarium	7pm	Space	
The Language & Shapes of Synthesisers & Electronic Sound	The Playhouse, Derry/Londonderry	7pm	Art & Science	
What the Medieval Doctor Ordered – Love Potions, Impotence Cures and Beauty tips from Ireland & Scandinavia	The Black Box, Belfast	7pm	History & Society	
NISF Climate Tour	Springhill, Magherafelt	7pm	Environment & Nature	
The Science of Psychedelics: The Future of Mental Health?	The MAC, Belfast	7:30pm	Mind & Body	
The Cheese Board	Crescent Arts Centre, Belfast	8pm	Food for Thought	

FRIDAY 24 FEBRUARY			
Our Place In Space	Ulster Transport Museum, Cultra - Starting Point	9am	Space
Little Astronomers	Armagh Planetarium	10am	Create. Make. Play.
Walk With Me	Ulster University, Belfast	11am	Mind & Body
Relaxed afternoon at the Planetarium	Armagh Planetarium	3pm	Space
Rendr Festival 2023	Portview Trade Centre, Belfast	5pm	Tech & Innovation
Dark Personalities & Culture	David Keir Building, Queen's University Belfast	6:30pm	Mind & Body
Dare to dream: A New Learning Reality	Crescent Arts Centre, Belfast	7pm	Tech & Innovation
Erica McAlister - The Secret (Sex) Lives of Flies	The Courthouse, Bangor	7pm	Environment & Nature
A New View of the Giants Causeway	Ulster Museum, Belfast	7pm	Environment & Nature
VR in the Bar	Nerve Centre, Derry/Londonderry	7pm	Tech & Innovation
NISF Climate Tour	F.E McWilliam Gallery and Studio, Banbridge	7pm	Environment & Nature
Our Place In Space - Challenge Awards	W5, Belfast	7pm	Space
30 Years of Doom with John & Brenda Romero	The MAC, Belfast	7pm	Tech & Innovation
The Medieval Menu Experience	Narrow Water Castle	7pm	Food for Thought

SATURDAY 25 FEBRUARY				
Dragons' Tails & Balor's Eye: Ireland's History with the Stars	Armagh Planetarium	ТВС	History & Society	
SIREN23	Ulster University, Belfast	10am	Environment & Nature	
Cosmic Dance Party	Girdwood Community Hub, Belfast	10am	Space	
Foraging Afloat	Green Boat Shed, Killinchy	10am	Food For Thought	

	Patrick G Johnston Centre for Cancer Research, Queen's	10am	Mind & Rody
Think Deep	University Belfast		Mind & Body
	Marble Arch Visitor Centre, Florencecourt	10am	Environment & Nature
QUB Astronomy Day	Queen's University, Belfast	10am	Space
Why Zoo Breeding Programmes Are Important	Belfast Zoo	10:15am	Environment & Nature
	Carrickfergus Museum & Civic Centre	10:30am	Environment & Nature
Beeswax Wrap Workshop	Hillsborough Castle	10:30am & 1:30pm	Environment & Nature
Our Marvellous Little Minds!	Ulster Museum, Belfast	11am & 12:30pm	Mind & Body
	MBC, Queen's University Belfast	11am	Tech & Innovation
Cosmic Conservation - Astronomy & The Antiques	Armagh Planetarium	11am & 3pm	Space
	Advanced Imaging CT, Queen's University Belfast	11am	Mind & Body
Eoghan Daltun - Irish Atlantic Rainforest: A Personal Journey into the Magic of Rewilding	Ulster University, Belfast	11am	Environment & Nature
Family Coastal Workshop & Clean-up	Magilligan Point, Limavady	11am	Environment & Nature
Insights from Madagascar and the Amazon - National Geographic Explorer Series	Ulster University, Belfast	12pm	Environment & Nature
Animal Dissection Live with Ben Garrod & Jess French	W5, Belfast	12pm	Environment & Nature
Helen Scales - The Brilliant Abyss: True Tales of Exploring the Deep Sea, Discovering Hidden Life and Selling the Seabed	Ulster University, Belfast	1pm	Environment & Nature
Rude Science with Stefan Gates	The MAC, Belfast	12pm & 3pm	Mind & Body
Sensing the City	CCA, Derry/Londonderry	1pm	Art & Science
The Oil Machine - Screening & Discussion	Ulster University, Belfast	2pm	Environment & Nature
Erica McAlister - Flies, Flies, Flies	Crescent Arts Centre, Belfast	3pm	Environment & Nature
	Girdwood Community Hub, Belfast	3pm	Science Communication
	Lough Neagh Discovery Centre, Oxford Island	4pm	Space
30th Anniversary Screening	Ulster Museum, Belfast / Nerve Centre Derry/Londonderry	6pm	Environment & Nature
	Queen's Film Theatre, Belfast	6pm	Space
	The Playhouse, Derry/ Londonderry	7pm	Art & Science



SUNDAY 26 FEBRUARY			
Star Dome	Belcoo Community Centre	10am	Space
Foraging Afloat	Green Boat Shed, Killinchy	10am	Food For Thought
Paddle with a Purpose	Strangford Lough Activity Centre	10am	Environment & Nature
The Magic of Microscopy	Advanced Imaging CT, Queen's University Belfast	11am	Mind & Body
Legendary Telescopes Tour	Armagh Planetarium	11am	History & Society
Rude Science with Stefan Gates	The Alley Theatre, Strabane	1pm & 4pm	Mind & Body
Ben Garrod - Why do some species go extinct and what can we do to save endangered species?	Whitla Hall, Queen's University Belfast	12:30pm	Science Communication
Wild About	Slieve Gullion Forest Park.	1pm	Environment & Nature
Science Trail	Playtrail, Derry/Londonderry	1pm	Science Communication
Hivesplaining the Sea	The Courthouse, Bangor	1pm	Art & Science
Steaming Kidneys: Where Science and Art Collide	Accidental Theatre, Belfast	2pm	Art & Science
The Merchants Who Grew a City	The Big Fish, Belfast - Meeting Point	2pm	History & Society
Let's Revamp Tea!	Crescent Arts Centre, Belfast	2pm	Food For Thought
Helen Scales - What A Shell Can Tell	Ulster Museum, Belfast	2pm	Environment & Nature
Hamza Yassin - Behind the Lens	Whitla Hall, Queen's University Belfast	3pm	Environment & Nature

ONGOING EVENTS & EXHIBITIONS			
STEM #Unfiltered Photography Competition 2022	2 Royal Avenue, Belfast	10am	Art & Science
Nursing and Midwifery - Professions for All	Various Libraries Across Northern Ireland	10am	Mind & Body
Join the Great CART Citizen Science Project	QUB School of Biological Sciences, Belfast	10am	Science Communication
AFBI Research Vessel	Queens Quay, Belfast	10am	Environment & Nature
Apis Mellifera, The Honey Bee - An Exhibition by Raymond Watson	ArtisAnn Gallery, Belfast	11am	Art & Science
New Topography of Love Part II	Foyleside Derry/Londonderry & Ulster University Belfast		Art & Science
Films @ NISF	Various locations - Check website for details		Art & Science





#### **HIGHLIGHTS THIS YEAR INCLUDE:**

#### **PETERSON AUTOMOTIVE**

Join us online as we zoom into Peterson Automotive in Los Angeles, California where they will look at the physics of some of their most famous cars, including those used in the movies James Bond and Batman.

#### OUR PLACE IN SPACE MINECRAFT WORLD

Teacher Training and In School workshops, delivered by the Nerve Centre and Microsoft's Dream Space.

#### **ADOBE**

Join Adobe Educators as they zoom into your classroom and unleash the creativity in your students to create beautiful infographics using Adobe Express.

#### W5

Are running a host of workshops for schools.

#### **NERVE CENTRE**

Are offering a range of FREE in-school workshops.

You can see the full schools programme here:

