

DIRECTOR'S FOREWORD

We are delighted to bring you the programme for the inaugural NI Science Festival which, for 11 days between 19th February – 1st March 2015, offers a stimulating and wide range of events focusing on the wonders of science, technology, engineering and mathematics.

During the day the festival will present a whole host of workshops, talks and interactive activities for young people, parents and schools. In the evening the festival will come alive with an eclectic mix of scientific debates, talks, theatre, comedy, music and film for adults.

This festival is the product of some truly amazing support and we would like to give a big thank you to our funders, event partners and volunteers whose dedication, foresight and imagination has helped build a truly remarkable programme of events.

So come to the NI Science Festival for a new kind of experience. Bring your family, bring your friends. Most of all bring your curiosity, imagination and enthusiasm!

Chris McCreery, Director

FESTIVAL TEAM

Festival Director: Chris McCreery Programme & Production Manager: Jillian Thompson Communications & PR: Geoff McGimpsey Administration: Lynsey McNerlin

Graphic Design: Rinky | rinky.org Website: Steven Henry | kingsteven.com

CHAIR'S FOREWORD

Science is the underlying fabric of a modern self-sustaining society, propelling economic growth, innovation and well-being. In 2015 we need our population to embrace science to take on the major challenges of the 21st Century.

Northern Ireland is home to a host of innovations and has a rich heritage of internationally renowned scientists and engineers. From the world class research in our universities to the boundless innovation from our local technology sector, this festival is about celebrating our on-going contribution to science, technology, engineering and mathematics.

By getting in touch with the science that's all around us, we believe that the festival will help raise the level of science capital and enhance the lives of every citizen in Northern Ireland. The NI Science Festival aims to nurture a vibrant culture of science amongst

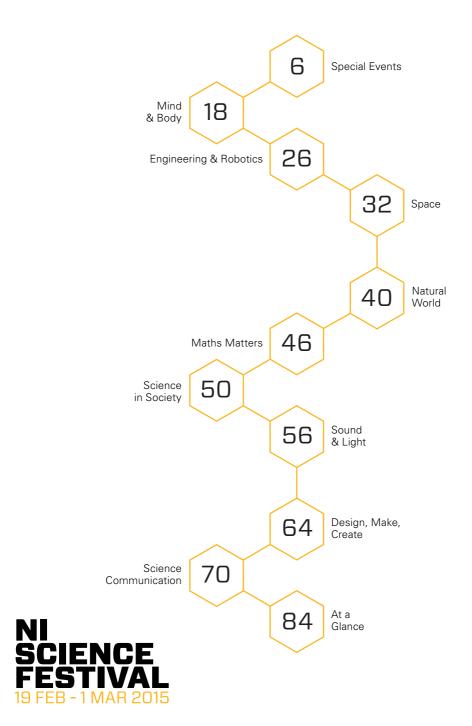
Dr. Liz Conlon, Festival Chairperson and Education Advisor at the Institute of Physics

our citizens - we invite you to join us!

FESTIVAL BOARD MEMBERS

Liz Conlon (Chair), John Winder (Treasurer), Claire Burgoyne, Jonathan Wallace, Alan Blair Emma Leahy, Bill Connor, Tony Byrne, Frances Morton, Judith Harvey, Alan Fitzsimmons, Adam Turkington, Sarah Jones.

11 DAYS. 100 EVENTS. INFINITE IDEAS. **NISCIENCEFESTIVAL.COM**



General Enquiries

NI Science Festival

First Floor, 18-22 Hill Street, Belfast BT1 2LA Tel: 07547480867 | info@nisciencefestival.com

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Booking information

Most of our events are open to the public. Suitability, admission and booking information are indicated in the listings. Ticketing links for events can be found via the festival website nisciencefestival.com. Please bring a printed copy of your ticket along to the event.

School Groups

If you would like your school or college to attend any of our listed education events, please go to the registration link detailed on the event listing or the festival website.

Disabled 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 info@nisciencefestival.com. Venue Information is also available through the Access400 online service at adaptni.org

Programme Changes

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

Festival Volunteers

If you would like to be part of this year's Science Festival, drop us an email detailing your availability during the festival to: info@nisciencefestival.com

Our Funders







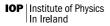






Our Partners













































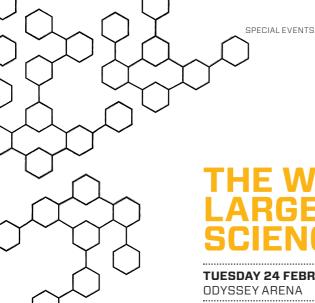








SPECIAL EVENTS



THE WORLD'S ENCE LESSO

TUESDAY 24 FEBRUARY, 9.30AM-1PM

ODYSSEY ARENA

SUITABILITY: SCHOOLS (P7-YEAR 8)

The Royal Society of Chemistry and British Council invites your school to help us attempt to break a world record at the Odyssey Arena Belfast.

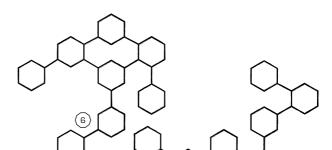
Students aged 10-12 are invited to take part in a massive enguiry-based lesson and try their hand at solving a "crime" using science. Students will also have the opportunity to talk to STEM ambassadors, and watch a W5 Science Show.

This event is run by the British Council and the Royal Society of Chemistry. School places will be allocated on a first come first served basis, with no limit to the number of participants that can come from any one school. We do ask that a minimum of one adult supervisor accompanies each 30 students.

TO BOOK PLEASE CONTACT RSCWRA@GMAIL.COM









TURING LECTURE

THURSDAY 26 FEBRUARY, 5.30-8.30PM

BELFAST CITY HALL

The all-pervasive nature of the general-purpose computer has made the most profound mark on almost every aspect of our lives. The central seminal figure in this computer revolution was Alan Turing, whose outstanding originality and vision was what made it possible, in work originating in the mid 1930s.

In honour and recognition of Turing's contribution in the field of computing, the IET and the BCS established the world leading Turing Lecture, an annual event presenting a topic from current research in computer science and given by an acknowledged expert in the field.

Dr Robert M Pepper, Vice President of Global Technology at Cisco, will be delivering the Turing Lecture Series 2015 on the "The Internet Paradox: How bottom-up beat(s) command and control' Join Dr. Robert Pepper in a lively discussion on how the dynamics of technology policy and largely obscure decisions significantly shaped the Internet as the bottom-up driver of innovation we know today. Dr. Pepper will cover the next market transition to the 'Internet of Everything', the interplay between policy and technology and highligh early indicators of what the future may hold for the Internet.







MAKE IT DIGITAL WITH THE BBC

THURSDAY 26 FEBRUARY, 10AM-7PM FRIDAY 27 FEBRUARY, 10AM-9PM SATURDAY 28 FEBRUARY, 10AM-7PM

BBC BLACKSTAFF STUDIOS, BELFAST

SUITABILITY: ALL AGES

BBC Northern Ireland is teaming up with the NI Science Festival for Make it Digital, a fantastic free event in BBC Blackstaff Studios

Suitable for all ages and family friendly, this free event invites you to get creative with technology as the BBC will open its doors for an interactive hands-on celebration of everything digital. Coding games inspired by BBC favourites like Dr Who and Sherlock will lift the lid on the mysterious world of computer programming with a taste of everything from digital fabrication and gaming to robotics and Raspberry Pi. Virtual reality, a golf swing simulator and all manner of gadgets and gizmos will offer plenty to interest curious minds.

Inspirational talks, demos and live shows will appeal to young and old. Prepare for flashes and bangs as The Open University presents The Magic of Oxygen and Scientific Sue entertains the crowds with her Technology Rocks show. Discover the technology behind the weather forecast and try presenting your own. Prepare to be challenged and entertained in the STEM Module - a mobile laboratory and workshop equipped with 3D printers, laser cutters and modern light microscopes. Can we 3D print a new Belfast? When will the robots take over? Can computer code combat crime? Find out the answers to these and more questions you never thought to ask.

THIS IS A FREE DROP-IN EVENT AND SCHOOLS ARE WELCOME TO ATTEND. FOR FURTHER DETAILS AND EVENT PROGRAMME VISIT BBC.CO.UK/NI





FRIDAY 27 FEBRUARY, 7-11PM

ULSTER MUSEUM

SUITABILITY: 18 YRS+

Get fired up for a night to remember, as the Museum is transformed into a giant laboratory. Explode the myths and dodge the danger as our experts reveal the power of the periodic table. Discover the conundrums of chemical compounds and how they affect our everyday lives: from art to atoms and cosmetics to cosmology, can you predict the changes ahead? Are you ready for an intimate encounter with the perils of poison, or will sparks fly when you share a chemistry cocktail?

From Actinium to Zirconium - Join us for an event like no other, in an exploration of the extraordinary and mysterious world of Chemistry.

FREE ADMISSION, ADVANCE BOOKING REQUIRED. PLEASE CALL 028 9044 0000.



FRIDAY NIGHT MASHUP

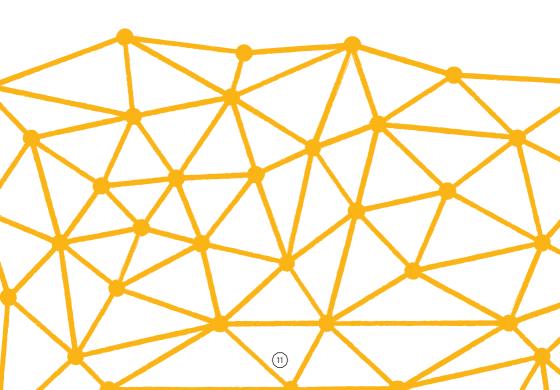
FRIDAY 27 FEBRUARY, 6PM-LATE

LOCATION TBC

SUITABILITY: 18 YRS+

Friday Night Mashup brings together the best of Northern Irish tech, business and creative industries aiming to connect and empower Northern Ireland's entrepreneurs to go out and take on the world. The Mashup is run by entrepreneurs for entrepreneurs and it provides a great opportunity to meet with other tech enthusiasts, investors and media, all while enjoying food and a few drinks!

FREE ADMISSION. FRIDAYNIGHTMASHUP.COM



MY LIFE AS AN EXPERIMENT

SUNDAY 1 MARCH, 8PM

BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

A scientist puts his life, his career, and his field under the microscope in this theatrical essay on the scientific method. What does it mean to make a discovery? And how does it feel? Setting himself up as an experiment, he will form a theory on his own life - with live music, songs, and flights of imagination - as he communes with the Muses of Science: Curiosity, Diligence, Inspiration, and Obsession. Devised and produced by Wireless Mystery Theatre with Dr. Alan Trudgett and Dr. Ruth Kelly of Queen's University, Belfast.

Wireless Mystery Theatre has produced work for BBC Radio 3 The Proms, BBC Radio 4, BBC Radio Ulster, BBC Scotland, and RTE, and their 20-play Edinburgh Fringe Festival run received 4-star reviews. WMT has worked with writers Carlo Gebler, Ian Sansom, Ciaran Carson, and with the family of W.R Rodgers in bringing these writers' works to the stage. Their work has been broadcast in Germany, the USA, and Canada.

ADMISSION: £8/£5 CONCESSION



MENSA MAGNIFICENT MONDAY QUIZ

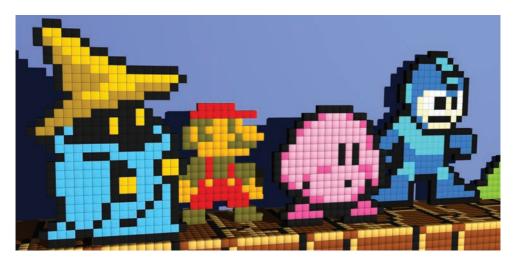
MONDAY 23 FEBRUARY, 7.30-10PM

BLACK BOX. BELFAST

SUITABILITY: 18 YRS+

Fancy cheering up your Monday night? Then come along to The Black Box for a light hearted team quiz devised by Mensa, incorporating science, technology, engineering and a bit of general knowledge. Even if you think your quiz knowledge is less than impressive, grab a few friends and come on down to the Black Box for the craic! Teams of up to six people welcome, no registration required.

ADMISSION: £2 ON THE DOOR. MENSA.IE



PLAYSPACE

SATURDAY 28 FEBRUARY - SUNDAY 1 MARCH

QUEEN'S FILM THEATRE, BELFAST

SUITABILITY: 18 YRS+

Get ready to play - gaming culture hacks into QFT for a weekend of workshops, screenings, tournaments and more...

More and more the film and gaming worlds are colliding, producing games that are truly cinematic in their scope and films that take gaming as their reference point. Over the course of the weekend we are celebrating these two worlds merging with interactive gaming workshops, screenings of new documentaries and cult classics (who doesn't love the original Tron?), and an all-day gaming tournament on the cinema screen. If there's one thing that's better than a gaming tournament, it's a gaming tournament on the BIG screen.

Throughout the weekend, QUB's gaming society, Dragonslayers will be hanging out in the bar area with some of their amazing range of consoles available to play on. Keep the dates free and join us for a weekend of pure gaming heaven. Full details to be released at the end of January – all good things come to gamers who wait.

CHECK QUEENSFILMTHEATRE.COM FOR DETAILS OR CONTACT THE BOX OFFICE ON 028 9097 1097 (AFTER 6PM ONLY).





MY SCIENCE SHORTS

MONDAY 23 - FRIDAY 27 FEBRUARY IN YOUR SCHOOL!

SUITABILITY: SCHOOLS

BBC Northern Ireland and CultureTECH will unveil their new learning collaboration with a series of 15 workshops in schools across the region. The project is designed as part of the BBC's Make It Digital campaign, and is supported by a series of short science and digital creativity films which will air on BBC Northern Ireland platforms. These inspiring workshops will challenge young people to engage with coding, use scientific methods to understand the world around them and be inspired to use technology to invent the future.

SCHOOLS INTERESTED IN TAKING PART CAN CONTACT RACHEL@CULTURETECH.CO FOR FURTHER DETAILS.

CultureTECH



CSI BELFAST

SUNDAY 1 MARCH, 1PM

BLACK BOX, BELFAST

SUITABILITY: 11 YRS+

CSI Belfast gives budding detectives a chance to use real forensic techniques, gather evidence and solve the crime!

This hands-on minds-on workshop creatively combines science and mathematics in a fun and innovative way. Participants will become trainee CSI officers and will be set the task of solving crime scenes. They will carry out 4 activities involving fingerprint analysis, powder analysis, blood typing and cryptography.

Throughout the session CSI teams will also have to work on problems linked to the world around us and some of the most famous mathematical formulae and patterns.

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ADMISSION: £5



MENTS EXHIB

THURSDAY 19 FEBRUARY - SUNDAY 1 MARCH. 10AM-5PM (CLOSED MONDAYS)

ULSTER MUSEUM

SUITABILITY: ALL AGES

Visit the unique Elements Gallery, the only one of its kind anywhere in Europe, to see for yourself what each element looks like, and discover how some of the most unfamiliar elements turn up in some of the most everyday objects.

A gallery booklet will lead visitors from the Periodic Table display through a series of familiar themes. Discover which element was the scourge of hat makers but made better hats, which element is rare on Earth but more common in Meteorites, or which element was important for stone age tools but is now vital for electronics.

ADMISSION: FREE TO THE PUBLIC.

BOOKINGS FOR SCHOOL AND LARGE GROUPS IS ESSENTIAL BY EMAILING GERALDINE.MCCARTNEY@ NMNI.COM. THE EXHIBITION CAN ACCOMMODATE 50 - 60 PUPILS COMFORTABLY. EXPECT TO SPEND A MINIMUM OF 45MINUTES IN THE EXHIBITION.



explore/engage/enjoy





LOTIONS & POTIONS

WEDNESDAY 25 FEBRUARY

TWO 1 HR SHOWS 10.30AM & 12.30PM ULSTER MUSEUM

SUITABILITY: KEY STAGE TWO, PRIMARY

Join Scientific Sue, from Science2Life, for a special show *Lotions and Potions* which links with our fabulous *Elements* exhibition to introduce pupils to some familiar elements and the exciting things they can do. Prepare for lots of audience participation, explosions, mess, fun and learning.

ADMISSION: FREE. BOOKING ESSENTIAL.

PLEASE EMAIL GERALDINE.MACARTNEY@NMNI.COM STATING WHICH SHOW YOU WOULD LIKE TO BOOK AND THE NUMBER OF PUPILS YOU WISH TO BRING. PLEASE DO NOT BOOK TRANSPORT UNTIL YOU HAVE RECEIVED CONFIRMATION FOR LOTIONS AND POTIONS.

ELEMENTS FROM EARTH & SPACE

SATURDAY 28 FEBRUARY 11AM-4.30PM

ULSTER MUSEUM

SUITABILITY: ALL AGES

Did the giant Russian meteorite of 2013 contain elements unknown on Earth? Do kryptonite and dilithium really exist? Come along to the Ulster Museum to see, and handle, some of the meteorites, minerals and elements from which Earth and our Solar System is made, and discover the answers to these questions from our resident experts.

ADMISSION: FREE.
REGISTRATION IS ADVISABLE.



Ulster Museum explore/engage/enjoy



MIND & BODY

"The human brain has 100 billion neurons, each neuron connected to 10 thousand other neurons. Sitting on your shoulders is the most complicated object in the known universe."

Michio Kaku





BODYWORKS

THURSDAY 19 FEBRUARY - SUNDAY 22 FEBRUARY

W5, BELFAST

SUITABILITY: ALL AGES

Your body is an amazing and complex machine, come and investigate how your BodyWorks with W5 and the Glasgow Science Centre.

Get your pulse racing as you become the scientist and the experiment with dozens of hands-on exhibits- find out how high can you jump, how quickly you react and how strong your grip is. Then take a closer look inside the human body as you examine synthetic body parts, go on a 3-dimensional virtual journey through the body's systems and take a walk through a giant heart!

TICKETS: FREE WITH ADMISSION TO W5.
THIS EVENT IS SPONSORED BY GLAXOSMITHKLINE



BODYWORKS: SPECIAL DAY OF ACTIVITY

SATURDAY 21 FEBRUARY, 11AM - 4PM

W5, BELFAST

SUITABILITY: ALL AGES

Science Superheroes!

The lab in W5, 11am – 4pm
Come join the Science Superheroes from
Queen's University to help us with our
experiments and discover what real DNA
looks like! Find out if you are a Supertaster or
Supersmeller with our science buskers, play
targeted therapy games, have fun making
elephants' toothpaste and learn about the
elements of life! And take part in our DNA repair
challenge-will you be the one to top the 'Repair
Superhero' leaderboard? Join us for these and
lots more activities for all ages!





Journey into the Future - Stratified Medicine

Computer room, level one, W5, 11am – 4pm Scientists have discovered that small changes in your DNA, which are a bit like spelling mistakes, can effect if a medicine will work for you. 'Stratified medicine' enables us to use this information to select the 'right treatment' for the 'right person'. Come and discover the future of medicine as the team from Ulster University take you a journey into the world of stratified medicine and your DNA! Come meet our Doctor and get your DNA sample, explore the laboratory with our scientists and test your DNA. Discover the hi-tech instruments we use, and figure out the best treatment for you!





Dr Death and the Medi-Evil Medicine Show

W5 Lecture theatre, 12pm & 2pm A historically, scientifically accurate panto for children and other childish people.

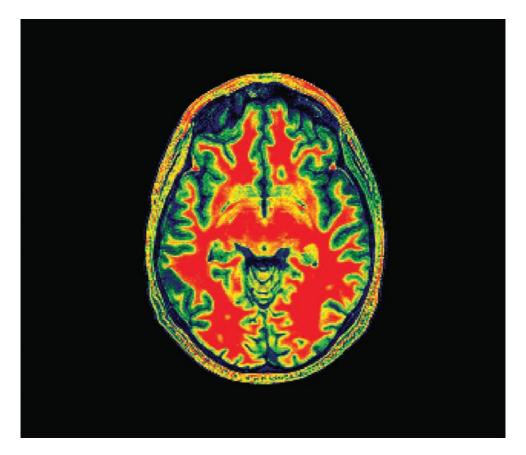
Sneezes, wheezes, sickness and diseases are never welcome. But in the past, some of the treatments could be worse than the underlying illness. Join the time-travelling 'Doctor Death', Simon Watt, to see if he can 'cure' you.

How healthy is your street?

W5 Classroom, 11am - 4pm

Battle against other contestants and be crowned public health champion by taking part in our interactive quiz to explore health indicators across Ireland. Find out about causes of illness and death and the latest work from the Centre of Excellence for Public Health Northern Ireland to improve population health outcomes. Let the kids produce a picture for our Healthy Places gallery.





BRAIN SEX

FRIDAY 20 FEBRUARY, 8PM

BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

Men read maps better, but women read emotions — so say brain scientists. Is the secret of human behaviour inside our skulls? Brainsex is a thought provoking mixture of science fun and science fact, designed to appeal to adults but suitable for all ages and backgrounds. Timandra Harkness is the engaging creator and performer of this irreverent mix of comedy, video, songs, gameshow & live experiments on the audience.

ADMISSION: £10/ £7 CONCESSION

"Effortlessly engaging and a pleasure to watch"

Three Weeks



ZOMBIE SCIENCE

SATURDAY 21 FEBRUARY

10.30-11.30AM, 12.30-1.30PM, 3-4PM ST. MARY'S COLLEGE, DERRY

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SUNDAY 22 FEBRUARY

1PM -2PM, 2.30PM-3.30PM, 4PM-5PM BLACK BOX, BELFAST

SUITABILITY: 14 YRS+

This spoof lecture from the Zombie Institute for Theoretical Studies lifts the lid on the Zombie skull and peers into the brain of the infamous movie monster. Presented by expert Zombiologist Doctor Ken Howe, you will learn about the science of Zombies using interactive demonstrations and a multi-media presentation.

Brain of the Dead is the third show in the Zombie Science spoof lecture series, which has attracted audiences of over 35,000 at more than 400 lectures across the UK and Ireland, including sell-out performances at the Glasgow International Comedy Festival and Edinburgh Fringe Festival. This is the science you need to survive the inevitable zombie apocalypse.

ADMISSION: £6 / £3 CONCESSION SUPPORTED BY THE WELLCOME TRUST & THE UNIVERSITY OF GLASGOW.

I'M A PSYCHOLOGIST GET ME OUT OF HERE

SATURDAY 28 FEBRUARY, 10AM-12PM; 1PM- 3PM

QUEEN'S UNIVERSITY BELFAST, SCHOOL OF PSYCHOLOGY (OG.533)

SUITABILITY: 12-15 YRS

At I'm a Psychologist Get Me Out of Here is an interactive workshop which lets young people investigate how their minds work. Find out about the science of communication, emotion, memory and senses by carrying out tasks with experienced researchers.

At the end of the session the young people will vote for the most interesting topic and scientist, enabling their escape from the psychology laboratory! All young people will leave the workshop with a goodie bag and further information on psychology.

SUPPORTED BY UU/QUB SCHOOLS OF PSYCHOLOGY AND NORTHERN IRELAND BRANCH OF THE BRITISH PSYCHOLOGY SOCIETY. FREE ADMISSION.

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PRE-REGISTER FOR ONE SESSION BY EMAILING VICTORIA SIMMS: V.SIMMS@ULSTER.AC.UK



WHY WE DIE?

SUNDAY 22 FEBRUARY, 3-4PM

BLACK BOX, BELFAST

SUITABILITY: 12-15 YRS

Death might not be certain, though taxes, probably are. In this lecture, featuring immortal jelly fish, the world's slowest bacteria and the trip Darwin took to a séance, biologist Simon Watt delves into the surprising science behind why we die, and what the alternatives might be. Come satisfy your morbid curiosity.

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ADMISSION: £3



ARCHAEOLOGICAL BURIALS, BONES AND BODIES

SUNDAY 22 FEBRUARY, 12.30 - 1.30PM

BLACK BOX, BELFAST

SUITABILITY: ALL AGES

Archaeologists encounter all sorts of bodies and bones during their excavations but how can we tell what injuries or diseases the person suffered from? In this talk, archaeologists from Queen's University will explain some of the methods they use and what information can be gleaned from the bodies they encounter. Including plastic skeletons and a skeleton jigsaw for the younger members of the audience, we will also look at the differences between males and females and the differences between the skeletons of babies, children and adults.

FREE ADMISSION



THE IMMORTALISTS

SUNDAY 22 FEBRUARY, 6.30PM

BFF BEANBAG CINEMA DIRECTED BY JASON SUSSBERG, DAVID ALVARADO (2014) 80 MIN.

SUITABILITY: 15 YRS+

The Immortalists is the story of two eccentric scientists struggling to discover medical breakthroughs to create eternal youth. And yet they fight to gain support for their cause in our world, which they call a world "blind to the tragedy of old age." Bill Andrews is a lab biologist and famed long-distance runner racing against the ultimate clock. Aubrey de Grey is a genius theoretical biologist who conducts his research with a beer in hand. They differ in style and substance, but are united in their common crusade: to cure aging or die trying.

As Andrews and de Grey battle their own aging and suffer the loss of loved ones, their journeys toward life without end ultimately become personal.

ADMISSION: £6



WHAT'S GOING ON IN HIS HEAD?

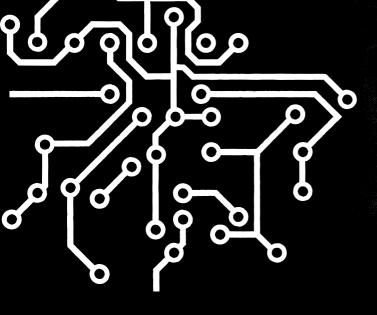
FRIDAY 20 FEBRUARY, 6.30 - 7.30PM

BLACK BOX, BELFAST

SUITABILITY: 14 YRS+

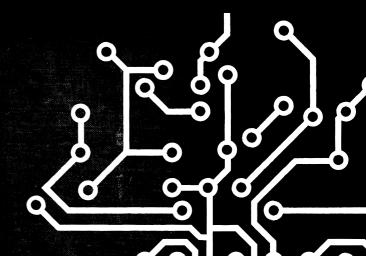
James Piercy is a highly talented Science Communicator who suffered a freak car accident which left him comatose and battling severe head injuries. Now recovered, not fully but far more than was feared possible, James delivers a personal presentation about his story and the science behind his recovery. Moving, witty and very funny -the messages within it are vital. The presentation touches on the NHS and Emergency Services, our incredible brain, eye and nervous system, head injury research and much more. It will open the audience's eyes to all manner of amazing ideas - human resilience, our incredible brains, the nature of luck, recovery and research and James' own inspirational attitude.

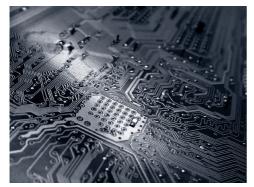
ADMISSION: £3. IN ASSOCIATION WITH BRAIN INJURY CHARITY HEADWAY. VISIT HEADWAY.ORG.UK



ENGINEERING & ROBOTICS

"To the optimist the glass is half-full; the pessimist, half-empty. To the engineer, the glass is twice the size it needs to be" **Anonymous**







ELECTRIFYING TASTER DAYS

THURSDAY 19 - FRIDAY 20 FEBRUARY 9.30AM - 3.30PM

SCHOOL OF ELECTRONICS, ELECTRICAL ENGINEERING AND COMPUTER SCIENCE AT QUEEN'S UNIVERSITY BELFAST

SUITABILITY: YEAR 13 STUDENTS

Electrical and Electronic Engineering at Queen's will throw open its doors for two days (starting in the Ashby Building) to allow students to get a feel for its degrees in Electrical & Electronic Engineering and Software & Electronic Systems Engineering. Students in lower 6th will have the opportunity to undertake projects, hear about opportunities in areas as diverse as cyber security and connected health, and also visit a company employing graduates of these degrees.

FREE ADMISSION. REGISTRATION IS REQUIRED.

STUDENTS ARE REQUIRED TO ATTEND BOTH DAYS. FURTHER DETAILS (AND ONLINE APPLICATION) MAY BE FOUND AT: GO.QUB.AC.UK/EEEWORKEXP, OR CONTACT: GEMMA O'DONNELL, G.ODONNELL@QUB.AC.UK, TEL 028 9097 4618. QUB.AC.UK/EEECS

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INTO THE FUTURE WE GO....

THURSDAY 26 FEBRUARY, 10AM - 1PM SCHOOL OF ELECTRONICS, ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, QUEEN'S UNIVERSITY BELFAST

SUITABILITY: YEAR 11 & 12 STUDENTS

Engineering students at Queen's University will host students from years 11 and 12 for an Electric DeLorean event. Electrical and Electronic Engineering students are involved in a project, sponsored by Northern Ireland Electricity, to convert a DeLorean car into an electric vehicle. The pupils will hear from students working on the project, have a chance to see the car, then test their own design skills by taking part in a challenge to race mini electric cars...ideal for students studying Physics at GCSE.

FOR FURTHER INFORMATION CONTACT: GEMMA O'DONNELL, G.ODONNELL@QUB.AC.UK, TEL 028 9097 4618.





SIR BERNARD CROSSLAND LECTURE:

'ALLIGATOR, SEX AND SCARS: UNEXPECTED SCIENTIFIC DISCOVERIES AND THEIR COMMERCIAL EXPLOITATION'

WEDNESDAY 25 FEBRUARY, 6-7.30PM

RIDDEL HALL, QUB, BELFAST

SUITABILITY: 14 YRS+

Engineers Ireland established the annual Sir Bernard Crossland Lecture in 2001 at Queens University to celebrate and promote excellence in engineering. This year we are delighted to welcome Professor Mark Ferguson, Chief Scientific Adviser for Ireland/Director General for SFI (Science Foundation Ireland) as our guest speaker. His lecture will help illustrate how unexpected discoveries open up new scientific and commercial opportunities. This lecture will appeal to a wide audience, and is not limited to those with a passion for engineering!

FREE ADMISSION. PLEASE REGISTER YOUR INTEREST AT BUSINESSNETWORKS@QUB.AC.UK







ENGINEERING FUTURES

MONDAY 23 FEBRUARY, 1-9PM

ULSTER UNIVERSITY, JORDANSTOWN

SUITABILITY: 12 YRS+

Engineering-Futures will present a wide range of exciting interactive demonstrations and workshops. As well as VIP invited talks from experts, four key themes will be on show; Health-Futures, Aerospace-Futures, Transport-Futures and Energy-Futures.

Health-Futures will focus on Connected-Health and Ambient-Assisted-Living, with underpinning micro-fab, 3-D printing for proto-typing, design software engineering and health-arduinos. You are invited to come along and measure your vital-signs or explore a smart-environment which senses your every move.

Aerospace-Futures will have demonstrations on Drones to simulators, including hands-on drone workshop with flying-drones!

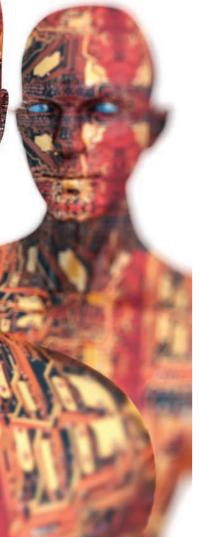
Transport-Futures will take you through the process on how to build an electric-car and make super-light and strong carbon-composites.

Energy-Futures will be a hands-on workshop creating hydrogen from water and electricity from a hydrogen fuel-cell.

During the Computer and Engineering Day we will also be running a competition in which you can win an iPad.

FREE ADMISSION. REGISTER AT NISCIENCEFESTIVAL.COM NOW BY PHONE 02890 368933.







DISCOVERY DAY

FRIDAY 20 FEBRUARY, 4-9PM

ULSTER UNIVERSITY, INTELLIGENT SYSTEMS RESEARCH CENTRE (ISRC) BUILDING, DERRY/LONDONDERRY

SUITABILITY: SCHOOLS, ADULTS, FAMILIES, 12 YRS+

Robots, virtual worlds and brain computer interface technology will be on show when a world class research centre at the Ulster University's Magee campus opens its doors for a "Discovery Day" as part of the NI Science Festival. Pioneering research at the Intelligent Systems Research Centre (ISRC) is turning once futuristic concepts into practical realities, with benefits in healthcare, education, industry and leisure. The event will be open and free to the public on Friday 20 February so why not join us on the day when you can: meet the robots of the future including PR2, humanoid robots and the world's most advanced robotic hand, see how we expand the boundaries of learning through games and virtual worlds, learn how your brain functions and how we can control technology with our minds and many other exciting and interactive demonstrations.

FREE ADMISSION

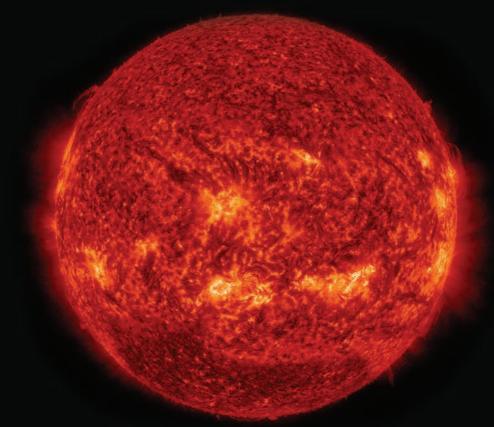




SPACE

"Look up at the stars and not down at your feet. Try to make sense of what you see, and wonder about what makes the universe exist. Be curious."

Stephen Hawking



SUN WATCH AT QUEEN'S

SATURDAY 28 FEBRUARY, 11.30AM-4.30PM

DEPARTMENT OF PHYSICS AND ASTRONOMY AT QUEEN'S UNIVERSITY, BELFAST

SUITABILITY: ALL AGES

The Astrophysics Research Centre and the Irish Astronomical Association invites everyone to come and learn about the Sun-our nearest star. At the front of Queen's University (near the war memorial) there will be an array of specially adapted telescopes, with astronomers showing visitors sunspots, prominences and other features on the Sun (weather permitting). Step inside the Department of Physics and Astronomy will for demonstrations, talk to an astronomer and listen to a series of 20 minute talks taking place every hour from 12 noon until 4pm. Learn how to safely view the upcoming eclipse of the Sun on 20th March 2015 and enter our solar colouring competition!

FREE ADMISSION. WARNING: NEVER LOOK DIRECTLY AT THE SUN WITHOUT SPECIAL EYE PROTECTION.





ARMAGH PLANETARIUM OPEN NIGHT

TUESDAY 24 FEBRUARY, 7-9PM

ARMAGH PLANETARIUM

SUITABILITY: ALL AGES

To experience the marvels of the Universe you should see them for yourself with your own eyes. As part of this free Open Night, the Armagh Planetarium will host a public telescope viewing session providing views of the Moon, planets and deep sky objects through our 12 inch telescope. The astronomical objects viewed will change with the seasons, and range from the Moon to the planets (such as Jupiter, Saturn, Mars and Venus) to nebulae and galaxies and, if we are really lucky, passing comets. The observing session will be held at the Planetarium and there will also be a free presentation of our *Beyond the Blue* digital theatre show at 7.30pm. If you want to join in please be aware observing can be done only if the sky is clear. The Digital Theatre show will go ahead regardless of the weather.

PRE-BOOKING FOR THE 7.30PM SHOW BEYOND THE BLUE IS ESSENTIAL. PLEASE CALL 028 37 523689 TO BOOK.





BE AN ASTRONOMER FOR THE NIGHT

FRIDAY 27 FEBRUARY, 6.30-9PM

BBC BLACKSTAFF STUDIOS, BELFAST

SUITABILITY: ALL AGES

Be a professional astronomer for the evening! Operate a real life telescope and take your own images of your favourite astronomical objects! Join Mark Thompson from BBC Stargazing Live and astronomers from the Open University for an evening exploring the night sky with the Open University's PIRATE telescope.

The PIRATE facility is based in Mallorca. A remotely controlled 17 inch telescope with high quality imaging cameras, PIRATE is used for exo-planet research and exploring new and interesting objects found by the galaxy- mapping satellite, Gaia. There will be demonstrations and presentations to explain this cutting edge technology as well as the not-to-be-missed chance to control the telescope yourself!

FREE ADMISSION.



(34)





A BRIEF HISTORY OF TIME

MONDAY 23 FEBRUARY, 8-9.30PM

BLACK BOX, BELFAST DIRECTED BY ERROL MORRIS, 1991

SUITABILITY: 18 YRS+

Second Chance Cinema presents an intimate screening of Errol Morris's, A Brief History of Time. Based on Stephen Hawking's international best-selling book of the same name, director Errol Morris's award-winning feature documentary explores the beginnings of the cosmos, real and imaginary time, black holes and why the universe exists. Hawking's theories are intertwined with his own remarkable story, revealed by friends, family and eminent scientific peers.

ADMISSION: £3, BOOK NOW AT SECONDCHANCECINEMA.ORG

NEWS FROM THE OUTER FRINGES

THURSDAY 26 FEBRUARY, 8PM

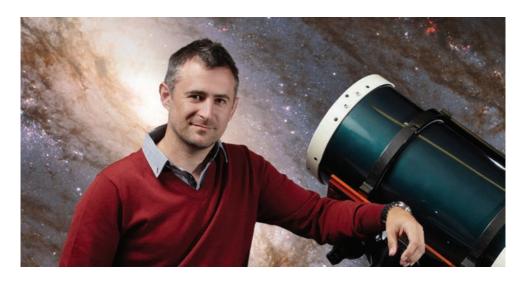
BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

Leading scientist with The Open University, Monica Grady, explores how much of our planet came from outer space. Much of the earth's water and organic materials come from extraterrestrial bombardment of our planet by comets and asteroids. The talk will explore results from the recent Rosetta mission to illustrate how comets and meteorites have influenced the development of life on Earth.

FREE ADMISSION. IN ASSOCIATION WITH OPEN LINIVERSITY





STARGAZER AT THE PLANETARIUM

SATURDAY 28 FEBRUARY, TWO TALKS AT 12.30 & 3PM

ARMAGH PLANETARIUM

SUITABILITY: ALL AGES

From the popular BBC programme Stargazing LIVE, Mark Thompson presents Stargazer at the Armagh Planetarium. The Universe is shrouded in mystery yet through the centuries, mankind has slowly unravelled many of its dark secrets. Stargazer Mark Thompson reveals the hidden nature of the Universe, brought to life with mind-blowing demonstrations.

Best known for co-presenting the BBC's Stargazing LIVE, Mark Thompson is sought after for taking complex scientific concepts and bringing them to life in an engaging and entertaining way. He is a frequent broadcaster, appearing on The One Show, The Alan Titchmarsh Show, and many news networks. His book 'A Down to Earth Guide to the Cosmos' was a hit and, having lectured at the Royal Institution and National Astronomy Meeting, Mark is no stranger to entertaining and informing big audiences of both professional astronomers and the general public.

Come along if you want to learn more about the mysteries of the Universe from the 'People's Astronomer.'

PRE-BOOKING IS ESSENTIAL, CALL 028 37 523689



STARGAZING

FRIDAY 27 FEBRUARY, 1-2PM

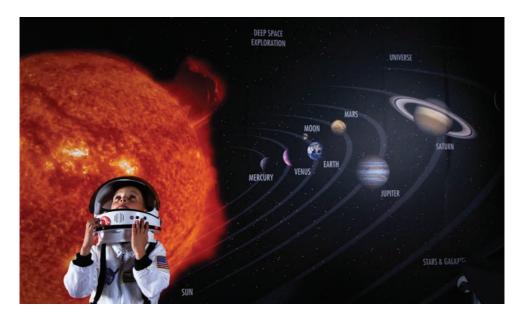
FRIDAY SALON @ BLACK BOX, BELFAST

SUITABILITY: ALL AGES

In association with the Black Box, we welcome you to the Friday Salons, a blend of big science and intimate conversations designed to ignite your curiosity and imagination.

Best known for co-presenting the BBC's popular Stargazing LIVE, Mark Thompson is sought-after for taking complex scientific concepts and bringing them to life in an engaging and entertaining way. Come along if you want to learn more about the mysteries of the Universe from the 'People's Astronomer'.

ADMISSION: £6/£3 CONCESSION. MADE POSSIBLE WITH BIS SCIENCE AND SOCIETY CHALLENGE GRANT SCHEME



ASTRONAUT TRAINING

MONDAY 23 - FRIDAY 27 FEBRUARY

VARIOUS TIMES (MAXIMUM - 2 HOUR VISIT) ARMAGH PLANETARIUM

SUITABILITY: SCHOOL GROUPS ONLY

For a week during the NI Science Festival, Armagh Planetarium is offering a special Astronaut Training Mission for any primary or secondary school visit to the Planetarium

Explore what it takes to become an astronaut and take a look at what astronauts do in space in both our advanced digital theatre and with hands on experiments and activities. From trying to find out how hard it is to work in a space suit as well as tasting some space food there is lots of fun missions to complete!

To top it off the children create and launch the planetarium's famous water rockets to really show them how fun space and science can be! Do you dare take your class to the Armagh Planetarium's 'out of this world' experience?

£5 PER CHILD, TEACHERS ARE FREE AT A RATIO OF 1:15. PRE-BOOKING A SCHOOL TRIP IS ESSENTIAL, PLEASE CONTACT THE PLANETARIUM ON 028 37 523689 TO SECURE YOUR SPACE.





"It seems to me that the natural world is the greatest source of excitement; the greatest source of visual beauty; the greatest source of intellectual interest. It is the greatest source of so much in life that makes life worth living."

David Attenborough





ANIMALS

FRIDAY 20 FEBRUARY, 1-2PM

FRIDAY SALON @ BLACK BOX, BELFAST

SUITABILITY: ALL AGES

Ugly Animals is a comedy show with a conservation twist. Join us for laughter and hilarity at the Black Box Friday Salon as Science Presenter Simon Watt (Inside Nature's Giants, the Infinite Monkey Cage) encourages the audience to delve deep into some of the weirdest creatures on this earth. Move away from the Panda, Tiger and Penguin and think ugly. No animal is too ugly to enter these doors—the floodgates have opened to a new era where ugliness rules! This event is part of the Friday Salon series, a blend of big science and intimate conversation in partnership with the Black Box.

ADMISSION: £6/£3 CONCESSION. MADE POSSIBLE WITH BIS SCIENCE AND SOCIETY CHALLENGE GRANT SCHEME



HOW TO MAKE A DWARF MAMMOTH

FRIDAY 20 FEBRUARY, 6.30-8PM

DAVID KEIR BUILDING LECTURE THEATRE LG1115 QUB

SUITABILITY: 14 YRS+

"Is there anything more oxymoronic than a dwarf mammoth? Yet they, and other dwarf elephant species, evolved many, many times during the Ice Age. For such a seemingly improbable beast, their story is strangely predictable, and all you seem to need to make one is an island. In this talk, Dr Tori Herridge will take a tour through the weird world of ice age islands, exploring how and why dwarf elephants evolved and how evolution can be more predictable than often thought. And using the clues that evolution has left behind, she will explore the ins and outs -- and rights and wrongs -- of trying to bring them back. Could it be possible? And should it?

THIS IS A FREE PUBLIC LECTURE ORGANISED BY QUEENS UNIVERSITY BELFAST, ULSTER MUSEUM AND THE GEOLOGICAL SURVEY NI AS PART OF THE IGBM 2015 CONFERENCE.



SCIENCE OF THE SEA

SATURDAY 21 & SUNDAY 22 FEBRUARY, 11AM-4.30PM

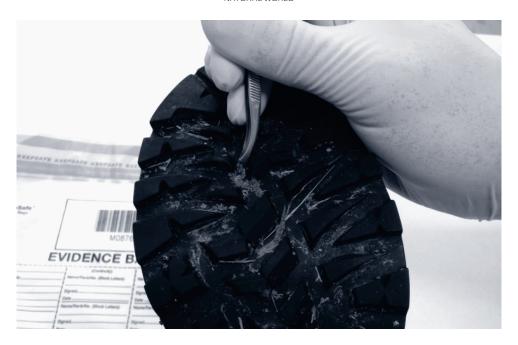
TITANIC BELFAST, MAIN ATRIUM

SUITABILITY: ALL AGES

Titanic Belfast's Ocean Exploration Centre is joining forces with Riverwatch and Ulster Wildlife on February 21st and 22nd for a special weekend focusing on the science of the sea! Come and meet some of our amazing marine life in Riverwatch's huge touchtank, explore one of the many uses of seaweed with Ulster Wildlife's amazing seaweed hand spa, and join the Ocean Exploration Centre's crew in the experiments and demonstrations which explain some of the fascinating science behind how our oceans operate.

FREE ADMISSION.





HOW VOLCANOES HELP SOLVE CRIMES

THURSDAY 19 FEBRUARY, 2.30-4.30PM

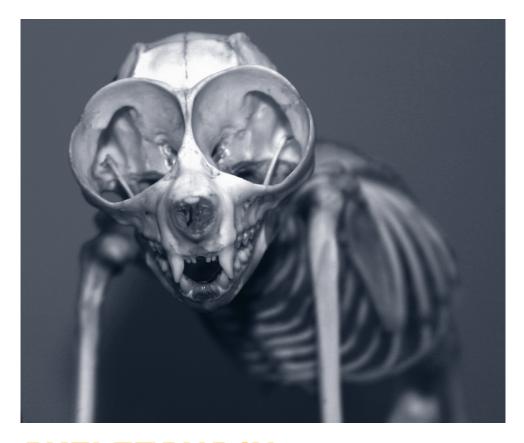
ULSTER MUSEUM

SUITABILITY: 10 YRS+

What is forensic geology and how has geology helped to solve several high profile criminal cases in the UK and internationally? For example how can soil found on a shoe help to solve a crime?

Join us for a series of interactive talks followed by a treasure hunt for forensic geological clues using exhibition material in the Ulster Museum. This will reveal how a forensic geologist thinks and show how an understanding of geological processes and environments can assist in unravelling a crime.

FREE ADMISSION. ORGANISED BY THE ULSTER MUSEUM IN COLLABORATION WITH QUEEN'S UNIVERSITY BELFAST AND GEOLOGICAL SURVEY NORTHERN IRELAND. SUPPORTED BY THE NORTHERN IRELAND REGIONAL GROUP OF THE GEOLOGICAL SOCIETY OF LONDON.



SKELETONS IN OUR CUPBOARDS

SATURDAY 21 FEBRUARY, 11AM-4.30PM

ULSTER MUSEUM

SUITABILITY: 5 YRS+

What lies beneath the skin of some of our most familiar animals? Come along to the Ulster Museum to see and touch some of the bones, teeth and skeletons that we have brought out from our collections store for the day. Talk to our experts to find out more about why every bone and tooth looks the way it does.

FREE ADMISSION.



OPAL EXPLORE NATURE ROADSHOW

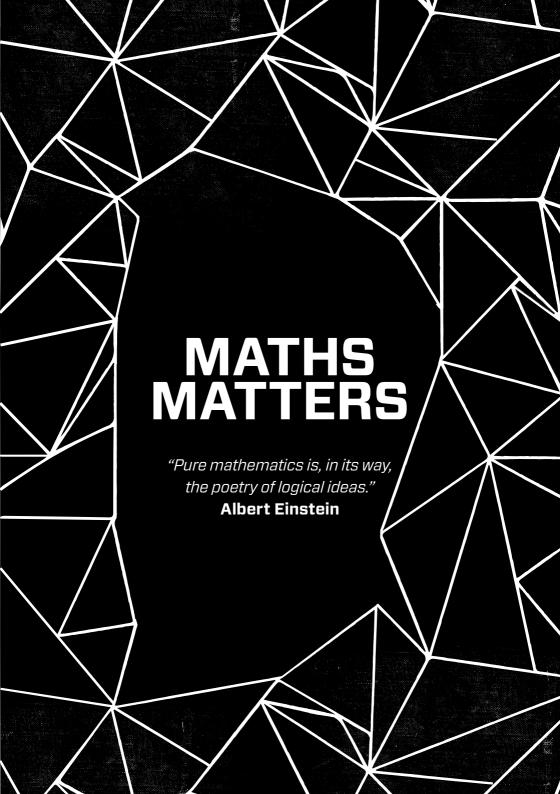
MONDAY 23 - FRIDAY 27 FEBRUARY, 10AM-3PM

SUITABILITY: SECONDARY SCHOOLS IN THE GREATER BELFAST AREA

Open Air Laboratories (OPAL) is an education and research programme about the environment which aims to engage school pupils in environmental research to encourage a better understanding of our neighbourhoods. In Northern Ireland this programme is being delivered by the School of Education at Queen's University Belfast and the Field Studies Council

In a special schools road show for the NI Science Festival, we will visit schools across the region to carry out OPAL surveys with Key Stage 3 classes. Survey topics include air quality, water and soil surveys, bug counts, tree health and hedgerow biodiversity. We will carry out one survey with each group on the school grounds or nearby and on completion we will upload the data onto the website: opalexplorenature.org

FREE ADMISSION. SCHOOLS INTERESTED IN TAKING PART CAN CONTACT G.MCCARRON@QUB.AC.UK OR CALL GRETTA ON 028 90971496 FOR FURTHER DETAILS: OPALEXPLORENATURE.ORG





LIGHTS, CAMERA, MATH-A-MAGIC

SATURDAY 21 FEBRUARY

1.30PM, 2.30PM, 3.30PM, 4.30PM (15 MIN SHOW)

CAHOOTS NI. CASTLECOURT SHOPPING CENTRE. BELFAST

SUITABILITY: 8 YRS+

Who said maths was boring? Cahoots NI and Danske Bank present *Lights, Camera, Math 'a' Magic* - an award-winning show that combines the mystery of magic with the teaching of maths as part of a fun and exhilarating educational experience. Audiences can expect extraordinary feats of mathematical mind-reading and illusion accompanied by a visually engaging multi-media show.

FREE ADMISSION.





THE MAGIC OF TIME

THURSDAY 19 - FRIDAY 20 FEBRUARY, 10AM-4.30PM

ULSTER AMERICAN FOLK PARK

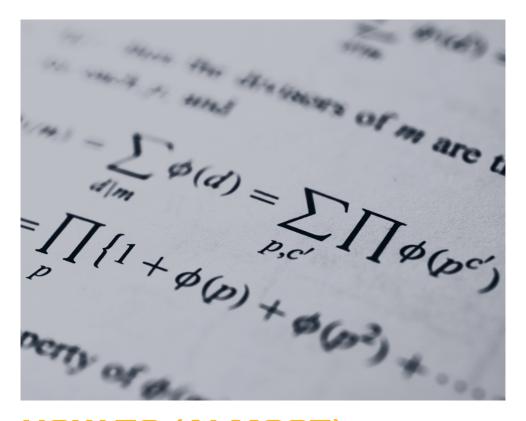
SUITABILITY: ALL AGES

The Magic of Time is a unique, interactive adventure trail incorporating Magic, History, Maths and Mystery! Visitors will embark on a fun-packed adventure at the museum that will delight, bamboozle and engage children and adults.

The Magic of Time trail explores an emigrant's journey, from the historic thatched stone cottages and farms of Ulster, through the docks on our emigrant ship, the Brig Union, to the log cabins and shops in the New World of America, punctuated with interactive activities featuring extraordinary exploits of mathematics, mind reading and illusion.

The Magic of Time trail is designed for everyone of any age who enjoys exploring new places, loves a challenge, working out puzzles and learning more about the past.

BOOKING IS NOT NECESSARY FOR FAMILIES AND INDIVIDUALS, BUT WOULD BE ESSENTIAL FOR GROUPS AND SCHOOL BOOKINGS. EMAIL: INFO@NMNI.COM OR TEL: 0845 608 0000 FOR MORE INFORMATION ON BOOKING GROUPS AND TICKET PRICES.



HOW TO (ALMOST) SOLVE THE RIEMANN HYPOTHESIS

SUNDAY 1 MARCH, 1.30PM

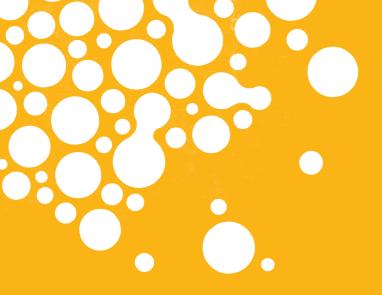
BLACK BOX, BELFAST

SUITABII ITY: 14 YRS+

Four years ago musician Colin Reid watched a BBC documentary about Leonard Euler's famous result pi squared over six. This is what happened next...An alternative look at mathematic's most famous unsolved problem.

ADMISSION: £3





SCIENCE IN SOCIETY

"Science is an integral part of culture and society. It's not this foreign thing, done by an arcane few. It's one of the glories of the human intellectual tradition."

Stephen Jay Gould



THE CHEMISTS' WAR 1914-1918

THURSDAY 19 FEBRUARY, 7-8PM SOMME CENTRE. NEWTOWNARDS

SUITABILITY: ALL AGES

In this talk, author Michael Freemantle will describe how the First World War was a "Chemists' War." Chemistry underpinned military strategy and determined the shape, duration and outcome of the First World War. Chemistry was not only a destructive instrument of war but also protected troops and healed the sick and wounded. From bullets to bombs, poison gases to anaesthetics, and khaki to cordite, chemistry played a pivotal role in the trenches, in the casualty clearing stations and military hospitals, in the tunnelling operations, in the air, and at sea.

Dr Michael Freemantle is a professional science writer. His book The Chemist's' War: 1914-1918, was published by the Royal Society of Chemistry in September 2014. This event is sponsored by the Royal Society of Chemistry.

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PRIOR REGISTRATION ADVISABLE, FOR MORE INFORMATION TELEPHONE: 028 91823202 OR EMAIL SOMMEASSOCIATION@BTINTERNET.COM





MENU OF THE FUTURE

SATURDAY 21 - SUNDAY 22 FEBRUARY 10AM-3PM

ST. GEORGE'S MARKET, BELFAST

SUITABILITY: ALL AGES

With the increasing financial and environmental costs associated with our current eating habits, sustainable alternatives need to be explored, especially with a growing global population.

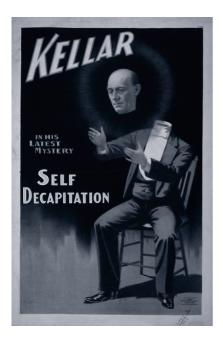
Join us for a taste of our 'Menu of the Future', with cooking demonstrations and 'alternative' foods to sample such as insect treats and algae appetisers. There will also be hands on activities, challenging people to think differently about what we eat, why, and the effect it has on us and the environment.

Meet experts in food and food sustainability, as well as members of the Society of Biology, to learn about what we might eat in the future and to sample some tasty examples. There will be live demonstrations at 12.00noon and 2.00pm whilst the information / activity stand will be available all day.

FREE ADMISSION







HISTORY OF ILLUSION

SUNDAY 1 MARCH, 3.30-4.15PM

BLACK BOX, BELFAST

SUITABILITY: ALL AGES

The world of Magic performance and Illusion dates back thousands of years. It's evolution is a fascinating tale of mystery and mischief, Gods and Kings, con men and conjurors and even Life and Death. This is an engaging lecture in which Professional Magician Caolan Mc Bride will introduce you to the stories and characters that have shaped the often esoteric world that magicians inhabit. Caolan uses a combination of showmanship, storytelling and live Magic performance to guide you through the 'History of Illusion.'

ADMISSION: £6, SEEDHEADARTS.COM



GASTRO SCIENCE

THURSDAY 26 FEBRUARY, 6-8PM THE COOKERY SCHOOL, JAMES STREET SOUTH, BELFAST

SUITABILITY: FOOD LOVERS

We welcome you to a demonstration of Gastro Science as our chef will guide you through two well-loved dishes with a twist!

The evening will include a step by step guide through the science behind an ultimate roast chicken and a tiramisu, as well as samples of the freshly prepared dishes.

Using immersion brining, slow cooking and high temperature roasting we will create the best roast chicken you have ever tasted and it even comes with its own gravy. We will show you how to create the perfect stuffing, vegetables and roast potatoes to accompany your chicken. Using crystallising, caramelising, gelling and freezing techniques we will create the best tiramisu you have ever tasted!

ADMISSION £20. BOOKING IN ADVANCE IS REQUIRED, CONTACT THE COOKERY SCHOOL ON 028 95600701 OR VISIT COOKINBELFAST.CO.UK



THE INTERNET'S OWN BOY: THE STORY OF AARON SWARTZ

THURSDAY 19 FEBRUARY, 7.30PM

BFF BEANBAG CINEMA

DIRECTED BY: BRIAN KNAPPENBERGER (2014) 105 MIN

SUITABILITY: 15 YRS+

The story of programming prodigy and information activist Aaron Swartz. From Swartz's help in the development of the basic internet protocol RSS to his co-founding of Reddit, his fingerprints are all over the internet. But it was Swartz's groundbreaking work in social justice and political organizing combined with his aggressive approach to information access that ensnared him in a two year legal nightmare. It was a battle that ended with the taking of his own life at the age of 26. Aaron's story touched a nerve with people far beyond the online communities in which he was a celebrity. This film is a personal story about what we lose when we are tone deaf about technology and its relationship to our civil liberties.

Come and explore science through film at the Beanbag Cinema with this little known cinematic gem.

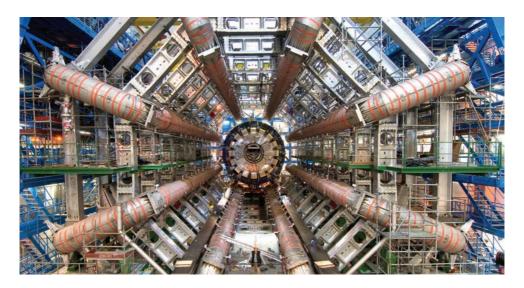
ADMISSION: £6

"The film builds up a portrait of a brilliant, driven, complex young man who's likely to be an iconic figure in the future, a sort of digitalage Che Guevara."

Leslie Felperin. The Guardian

"Both tragic and eyeopening. Go see it and get angry."

Brad Keefe, Columbus Alive



THE HIGGS' BOSON AND CANCER THERAPY

TUESDAY 24 FEBRUARY, 7-8PM

ULSTER MUSEUM

SUITABILITY: 10 YRS+

Professor Steve Myers will talk about our relationship as a civilisation with particle accelerators. These sophisticated and often enormous machines provide us with insight into the dawn of the universe; however they are also in widespread use for the treatment of cancer, scientific research into the properties of materials and in security.

Today's particle accelerators and detectors are among the most complicated and expensive scientific instruments ever build by mankind. The CERN Large Hadron Collider (LHC) is the most recent and most powerful of these devices.

Belfast-born Steve will take us on his personal 42-year accelerator journey, through the development of cutting edge engineering at CERN, including the serious technical accident in the LHC, to the subsequent increase in performance that led to the discovery of the Higgs' Boson. The man responsible for running the LHC is now forging the use of accelerators in medicine, including proton beam cancer treatment.

FREE ADMISSION

IOP Institute of Physics In Ireland





RENAISSANCE SCIENCE

THURSDAY 19 FEBRUARY, 6.30-9PM

NO ALIBIS BOOKSHOP, BELFAST

SUITABILITY: 15 YRS+

Enjoy an evening of history, art and science where Alison Hackett, author and curator of The Visual Time Traveller, will give a visual journey through history, art and science since the Renaissance.

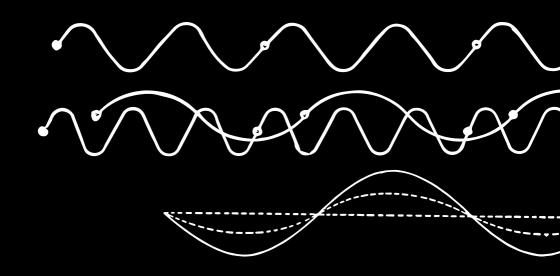
As the 19th Century draws to a close we find Bram Stoker is writing Dracula while X-rays and blood-thinning Aspirin are discovered; the first modern Olympic games are held in Athens and Cézanne creates his seminal modernist painting, The Bathers. Alison will talk about a few of the hundred stories captured in five-year time steps – a kaleidoscopic view of history and human achievement.

Alison's talk will be followed by Poet and physicist Iggy McGovern who will discuss the possible connections between poetry and science, with particular reference to the writings of 20th century Czech immunologist and poet, Miroslav Holub, and 19th century Irish mathematician and poet, William Rowan Hamilton. The latter is the subject of McGovern's verse biography A Mystic Dream of 4 and the presentation will include brief selections of the poetry of all three poets.

FREE ADMISSION, REGISTRATION IS ADVISABLE. THIS EVENT IS SPONSORED BY THE INSTITUTE OF PHYSICS.

IOP Institute of Physics In Ireland

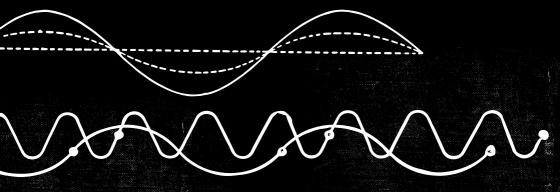




SOUND & LIGHT

"Light travels faster than sound. That's why certain people appear bright until you hear them speak"

Unknown





THE ART & SCIENCE OF SOUND

SATURDAY 21 FEBRUARY, 11AM-5PM

SONIC ARTS RESEARCH CENTRE, BELFAST

SUITABILITY: ALL AGES

The Sonic Arts Research Centre, Queen's University Belfast is an outstanding research facility dedicated to all things sonic. It will open its doors on 21st February from 11am - 5pm for a unique sound and science showcase.

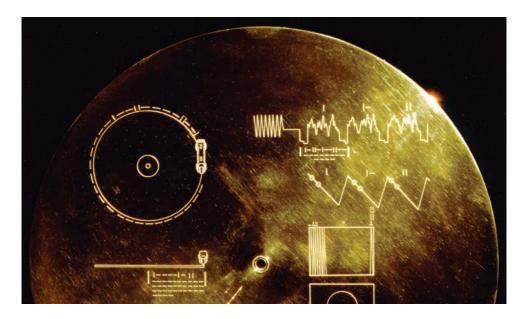
There will be dedicated listening, recording, and other hands-on sound workshops using new music technologies and lots more.

Places for workshops can be booked through the festival website, but members of the public are welcome to experience recent SARC activities between 3pm and 5pm on the day. These include sound installations, performances, motion capture systems, and demo tables where you can make and explore sounds and science.

FREE ADMISSION. PRE-REGISTRATION FOR WORKSHOPS IS REQUIRED







THE GOLDEN RECORD AND BEYOND...

SATURDAY 21 FEBRUARY, 8PM-LATE

BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

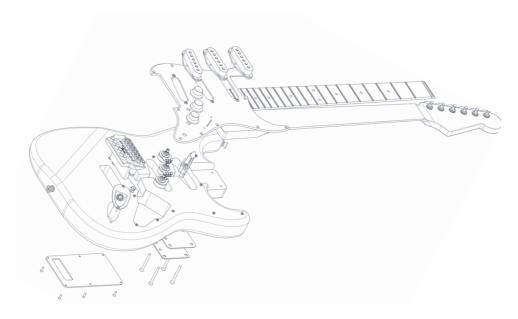
The man-made objects furthest away from Earth are the two Voyager probes, launched in 1977. Improbably bolted to the sides of both spacecraft are 12" vinyl records containing sounds, music and images, intended to represent the entirety of the human race to any aliens who happen to encounter the probes.

'Play the Golden Record' is a new project based around these sounds and images, manipulated by Beatrice Dillon and Bass Clef. Part DJ set, part live performance, and part analysis of both one of humanity's most striking scientific achievements and the joyously naïve and strange optimism of 1977.

Ken & Ryu will be on hand to provide the cosmic funk vibes with a DJ set that might well suit George Clinton's vision of the alignments in time and space. Kab Driver (Reset Industries) will invert the approach and throw down some sounds inspired by inner space and micro sounds.

ADMISSION: £6





THE TYNDALL LECTURE: TECHNOLOGY ROCKS

THURSDAY 19 FEBRUARY, 11AM-12PM

FOYLE COLLEGE, DERRY/LONDONDERRY

SUITABILITY: SCHOOL GROUPS OF 14-16 YRS

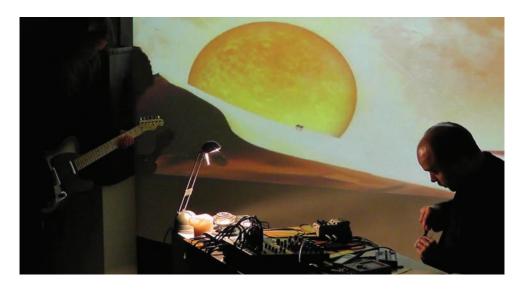
Join Scientific Sue on this amazing journey of scientific discovery and find out how the scientific inputs of Volta, Oersted and Faraday lay the foundations for the development of one of the most important inventions of the 20th century- the electric guitar - the key musical instrument which totally defines the tone and character of rock music

The topics of sound, electricity, magnetism and then electromagnetism are explored in a fun and interactive fashion with the aim to explain how the magnetic pickups on an electric guitar sense vibrations and turn it into sound.

REGISTRATION IS NECESSARY FOR SCHOOLS. EMAIL SANDRAOCONNELL77@HOTMAIL.COM OR TEL: 07989890331

IOP Institute of Physics





HANDMADE ELECTRONIC MUSIC NIGHT

SATURDAY 28 FEBRUARY, 8PM-LATE

BLACK BOX, BELFAST

SHITARII ITV: 18 VRS+

A night of handmade music from the island's leading DIY audio pioneers. What happens when the musician is also an engineer? The creative use of technology has been a driving force for innovation in art and music since the dawn of the 20th century. From the Theremin to the modern digital synthesiser, the application of technology has created sounds that have become embedded in our cultural landscape.

By manipulating the physical materials and electronics involved in music production, the artist has unprecedented control over their instruments' timbre and the music they produce.

Featuring performances by Anthony Kelly & David Stalling (Dublin), Ed Devane (Limerick), Mischa Grae AKA Infotoxin (Belfast), plus guests. Visuals provided by Barry Cullen (Belfast).

ADMISSION: £8 | MAKER.IE

PINHOLE CAMERA SOLAR PHOTO-GRAPHY WORKSHOP

SATURDAY 21 FEBRUARY, 10AM-1PM SUNDAY 22 FEBRUARY, 1-4PM

BELFAST EXPOSED

SUITABILITY: 7-11 YRS

One of the easiest and safest ways to view the Sun – eclipsed and uneclipsed – is to project its image on a screen using a pinhole camera or a pinhole projector. In this workshop, kids will begin by building a variety of different sizes of cameras pinhole cameras using materials from household objects such as coffee tins, shoe boxes and sweets tins.

With a quick look at the black and white darkroom technique, each participant will find a place to place their camera and take their picture before we display these images in a mini exhibition. Solar paper requires no chemicals, just creative imagination to produce a unique piece of photographic art.

This is one of a number of events to celebrate the International Year of Light 2015. iyl2015.org.uk.

FREE ADMISSION BUT SPACES ARE LIMITED. PLEASE REGISTER YOUR INTEREST BY EMAILING MERVYN®BELFASTEXPOSED.ORG

IOP | Institute of Physics



LIGHT, PHOTO-GRAPHY & PHYSICS

WEDNESDAY 25 FEBRUARY 6.30-7.30PM

BELFAST EXPOSED

SUITABILITY: PHOTOGRAPHY STUDENTS, CAMERA ENTHUSIASTS

The wonderful range of colours in nature forms our first experiences of light through what we see and perceive as natural beauty in the world. Light and vision are fundamental to our lives and with better understanding of the physics behind it one can discover new insights in the phenomenon of light in our everyday lives and capture those various manifestations of light using modern photography. Dr Sasha Goncharov from NUI Galway will take you through the process of 'drawing with light'.

This is one of a number of events to celebrate the International Year of Light 2015. iyl2015.org.uk.

FREE ADMISSION BUT SPACES ARE LIMITED. PLEASE REGISTER YOUR INTEREST BY EMAILING MERVYN@BELFASTEXPOSED.ORG

IOP Institute of Physics





THE INCREDIBLE POWER OF LIGHT EXHIBITION

THURSDAY 19 FEBRUARY - SUNDAY 1 MARCH, 10AM-5PM (CLOSED MONDAYS)

ULSTER MUSEUM

SUITABILITY: ALL AGES

Ever wondered how one of the world's most powerful lasers works? 10,000 times more powerful than the National Grid, Vulcan is a laser facility delivering pulses of light up to one petawatt of energy. A replica will form the centre-piece of the Incredible Power of Light exhibition. Animations, interactive exhibits, hardware and displays tell the story of how lasers impact on our everyday lives. Come along to this exciting exhibition and hear from scientists using this exciting technology in their research. Knowledgeable demonstrators will be present in the exhibition to explain, answer questions and to generally help visitors engage with the displays.

FOR GENERAL MUSEUM VISITORS, BOOKING IS NOT REQUIRED. SCHOOL GROUPS SHOULD TELEPHONE 02890 440100 OR EMAIL GERALDINE.MACARTNEY@NMNI.COM



IOP Institute of Physics In Ireland





LAPTOP ORCHESTRA

SUNDAY 1 MARCH, 4PM

SONIC ARTS RESEARCH CENTRE, BELFAST

SUITABILITY: ALL AGES

The Dublin Laptop Orchestra makes music with lots of laptops, hands, golf controllers, and hemispherical speakers.

Their aim is to bring some theatricality and 'physical presence' into electronic music performance by creating software instruments that require movement and skill from performers and encourage interaction and improvisation. Consisting of six to eight musicians on laptops, a wireless network is also used for syncing laptops allowing the orchestra to build up intricate rhythms and textures that go beyond anything physical musicians could perform.

ADMISSION: £6/£3 CONCESSION.



"Hell, there ain't no rules around here!

We are trying to accomplish something!

Thomas Edison



AFTER SCHOOL CLUB

19, 24 & 26 FEBRUARY, 4-6PM

NERVE CENTRE, DERRY/LONDONDERRY

SUITABILITY: 8-14 YRS

Are you interested in technology and making things? Do you want to get your hands on the latest computer controlled fabrication technologies like 3d printing, laser cutting and cnc routing?

As part of NI Science Festival, FabLab Nerve Centre will be hosting a number of after school drop-in sessions.

Participants will design and make a variety of exciting, stimulating projects ranging from custom t-shirt printing to automated robots.

So if you are aged between 8 and 14, interested in making things, or just curious about new technology, come along to one of the workshops and embrace the future.

FREE ADMISSION. PRIOR REGISTRATION ESSENTIAL, FOR MORE INFORMATION VISIT FABLABNI.COM

NERVE CENTRE FAMILY MAKER TASTER SESSIONS

SATURDAY 21 FEBRUARY, 10AM-1PM

NERVE CENTRE, DERRY/LONDONDERRY

SUITABILITY: PARENTS & 6-16 YRS

Are you looking for a new type of family activity? Are you looking for something that is informative, educational and exciting?

FabLab Nerve Centre will be holding a Family Maker taster session on Saturday 21st February as part of NI Science Festival.

Parents and children will have the opportunity to design and make a variety of things using the latest in digital fabrication technologies and good old fashioned creativity.

So if you want to see just what you can do with a laser cutter or 3d printer, come along and try something new.

FREE ADMISSION. PRIOR REGISTRATION ESSENTIAL, FOR MORE INFORMATION VISIT FABLABNI.COM



CREATING STEAM AT THE NERVE CENTRE

THROUGHOUT FESTIVAL, CHECK NERVECENTRE.ORG FOR DETAILS

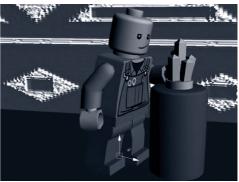
NERVE CENTRE, DERRY/LONDONDERRY
SUITABILITY: TEACHERS & LEARNERS
AT KEY STAGE 2.3 AND 4

To celebrate the NI Science Festival, the Nerve Centre Creative Learning Centre is running a series of workshops and training sessions for Teachers and for Learners across the Key Stages. Creating STEAM at the Nerve Centre will see practical sessions delivered using creative digital technologies encourage learning in STEM areas using the Arts and Creativity as a hook.

The sessions for school pupils will look at themes such as the Science of Animation, the Science of Music and the Science of Creative Code. The programme aims to inspire learning about the importance of science in our lives. Sessions will be offered across the Key Stages.

FOR FULL PROGRAMME DETAILS AND BOOKING INFORMATION SEE NERVECENTRE ORG

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3D DOJO: INTRO TO COMPUTER ANIMATION

SATURDAY 21 FEBRUARY, 9.30AM-12.30PM

ULSTER UNIVERSITY, BELFAST

SUITABILITY: 10-18 YRS

Under the guidance of Greg Maguire ('Avatar', 'Happy Feet', 'Terminator Salvation') and his team at the Ulster University's Computer Animation Research Laboratory, this workshop will give an introduction to wonderful world of 3D computer animation. In this half-day event, you will use the same animation software that was used to create the world's biggest blockbuster movies 'Avatar' and 'Harry Potter'. Through creating a 'bouncing ball' animation, you will be able to try, learn and play with computer animation.

FREE ADMISSION. BOOKING IS ESSENTIAL.





BUILD A FUZZ DISTORTION GUITAR PEDAL WORKSHOP

SATURDAY 28 FEBRUARY, 10AM-1PM

OH YEAH CENTRE, BELFAST

SUITABILITY: 15 YRS+

The 'Fuzz' distortion guitar pedal has been used extensively throughout the history of rock music, most notably by Jimi Hendrix, Jeff Beck, Led Zeppelin, Guns n Roses, and Nirvana to name a few.

In this workshop we begin by teaching the correct way to solder before taking you through the process of building a fuzz distortion guitar pedal from scratch.

By the end of this workshop you will not only have gained a great piece of gear, but also an understanding of the basic techniques and electronic theory involved in DIY audio electronics, as well as the confidence to begin working on your own projects from home.

ADMISSION: £49 | BOOK VIA MAKER.IE



BUILD A LIGHT THEREMIN WORKSHOP

SATURDAY 28 FEBRUARY, 1.30-4.30PM

OH YEAH CENTRE, BELFAST

SUITABILITY: 15 YRS+

Famously used by the Beach Boys, or in the original Star Trek theme, the Theremin was one of the world's first electronic instruments. It is an ethereal sounding audio synthesiser, uniquely controlled without physical contact, through bringing your hands close to the instrument to control its pitch and volume.

The workshop begins by learning the correct way to solder before bringing you through the process of building your own light-controlled Theremin to take away.

ADMISSION: £44 | BOOK VIA MAKER.IE



MAKER DAY WITH FABLAB

SATURDAY 21 FEBRUARY, 10AM-4PM BLACK BOX. BELFAST

SUITABILITY: ALL AGES

FabLab Belfast will be bringing a pop up FabLab to the Black Box for a Maker Day, designing, hacking, gluing, printing, cutting, milling and fixing for all the family!

Come and see our 3D printers creating replicas of your own head, laser cut your own NI Science festival memento or get into electronics and learn how to solder. We'll also show you how FabLabs are designing an making weird and wonderful things from key rings to electric cars and furniture to fully formed houses!

We'll have a fully functioning digital fabrication laboratory set up with loads of fun activities for all the family to enjoy. Whether you are new to designing and making using computers or have embraced your inner maker - there's something for you to discover and inspire!

As well as making demonstrations happening all day there will be a series of Maker workshops you can sign up to.

FREE ADMISSION BUT REGISTRATION FOR WORKSHOPS IS ADVISABLE

TASTER SESSIONS AT FABLAB

FRIDAY 20 FEBRUARY, 10AM-4PM

ASHTON CENTRE, BELFAST

SUITABILITY: ALL AGES

Ever wondered how a 3D printer works? What about digitally scanning your head then printing it in 3D?nDo you want to find out how to use computers to design 2D and 3D objects?

Come and discover the world of digital fabrication at FabLab Belfast, where the newest digital revolution is taking place on your doorstep! The drop in day will have loads of taster activities including Laser engraved art, vinyl cut super stickers and 3D printing. You see how the lab works and discover how you can make almost anything!

Fab Labs were born from an outreach project by Massachusetts Institute of Technology (MIT) in inner-city Boston in 2005. Since then FabLabs have quickly spread around the world. There are over 400 FabLabs from the inner cities of the USA to the villages of Africa.

FabLabs run programmes suitable for everyone. Whether you are new to using a computer or enjoy designing and making, there is something for you!

FREE DROP IN EVENT BUT LARGE GROUPS SHOULD EMAIL INFO@FABLABBELFAST.COM

MACHINATIONS EXHIBITION LAUNCH

SATURDAY 28 FEBRUARY, CONTINUING UNTIL 15 MARCH, 10AM-4PM

GLENGORMLEY TOWN CENTRE

SUITABILITY: ALL AGES

Big Telly's 'Spring Chickens' is a pioneering intergenerational programme, supporting communities to participate and engage in the theatre arts. Over the past six months, Big Telly has been working with a range of groups using objects to explore stories of identity, through moving sculpture, display and sound. Working with artist and inventor Paddy Bloomer, this Machinations project will culminate in the NI Science Festival with an exhibition of all the work done over the six month project.

Displaying all final sculptures including a 3D zoetrope, junk self-portraits and model box stories and lots more, the Machinations Exhibition will take place in one of Big Telly's Creative Shops 'pop-up' spaces in the heart of town centres which aim to give communities a space to make something happen. With activities for children and adults all day come along, explore our journey and have a go yourself!

FREE ADMISSION. THIS PROJECT IS FREE THROUGH SUPPORT FROM THE ARTS COUNCIL'S ARTS & OLDER PEOPLE'S PROGRAMME, PHA, THE BARING FOUNDATION & DCAL

INCLUSIVE CREATIVITY SHOWCASE SYMPOSIUM

FRIDAY 20 FEBRUARY, 10.30AM-3.30PM

ULSTER UNIVERSITY, BELFAST

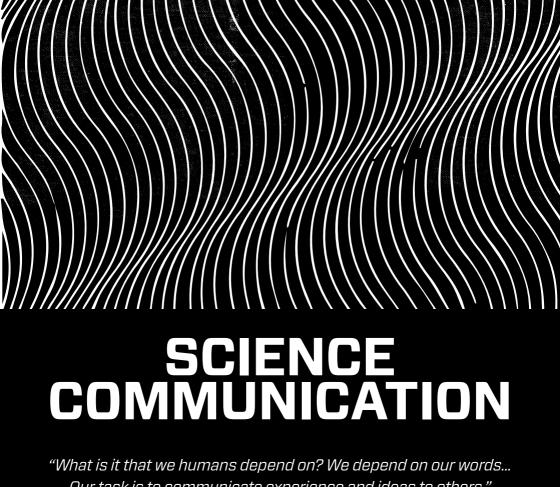
SUITABILITY: ALL AGES

Inclusive Creativity will focus on how new technologies are being developed and applied to create a level playing field for musicians of all ages with physical disabilities and learning difficulties. Researchers who are working at the leading edge of the music, technology and disability field will share and interrogate the most recent thinking in the area. The symposium will showcase hardware and software development in the creation of new musical instruments and performance and composition environments for musicians with disabilities. The event will culminate in a performance showcase to highlight high quality artistic practice from a number of composers and performers with disabilities who use creative technologies.

FREE ADMISSION. REGISTRATION IS ADVISABLE.







Our task is to communicate experience and ideas to others."

Niels Bohr



CELEBRATING SCIENCE AT QUEEN'S

THURSDAY 19 FEBRUARY, 5PM-7.30PM

RIDDEL HALL, QUB, BELFAST

SUITABILITY: ALL AGES

Come along and get a taste of the world-leading scientific research carried out at Queen's University. From nanotechnology to aerospace engineering, from robots to diabetes, Queen's scientists, engineers and researchers are building and discovering the future every day.

As part of the Research Impact series of events, organised by the Queen's Research and Enterprise Directorate and the NI Science Festival, we are inviting all members of the public to come along and meet some of the brightest minds of today. As well as chatting to visitors from individual stands about their work, four scientists will also give short presentations on their research and will answer any questions on their latest work and what they hope to discover in the future.

FREE ADMISSION, NO BOOKING REQUIRED.

CAFÉ SCIENTIFIQUE

VARIOUS TIMES DURING THE FESTIVAL, CHECK NERVECENTRE.ORG FOR DETAILS

THE NERVE CENTRE, DERRY/LONDONDERRY

SUITABILITY: ALL AGES

Cafe Scientifique is a place where, for the price of a cup of coffee or a glass of wine, anyone can come to explore the latest ideas in science and technology. To mark the NI Science Festival, Café Scientifique Derry~Londonderry will run a series of Café events.

Cafes Scientifique cover a wide range of issues relating to science and technology. Topics covered have included the Big Bang, biodiversity, cancer, code-breaking, consciousness, Darwinism, ecology, evolution, extreme life, foetal experience, genetically modified organisms, global warming, infertility, nanotechnology, the Public Understanding of Science movement, sports science, superconductors and more.

FREE ADMISSION

PRIMARY SCIENCE IN AN ESPRESSO SHOT

THURSDAY 19 FEBRUARY. 7-9PM

ESTABLISHED COFFEE. BELFAST

SUITABILITY: PRIMARY SCHOOL TEACHERS

Perk up your practice with the staff and students from the Primary Science Teaching Trust's hub at Stranmillis University College. Join us for a caffeinated evening of experiments, exploration, and discovery as we filter through the 'World Around Us' and grind out the true essence of primary science. This interactive session will demonstrate the value of playful approaches for science teaching and learning, and will offer you the opportunity to experience them first-hand. If you crave creativity and curiosity treat yourself to a free cup of inspiration with fellow enthusiasts.

THIS IS AN INTERACTIVE WORKSHOP AND SPACES ARE LIMITED. TO CONFIRM YOUR PLACE PLEASE EMAIL PSTTHUB@STRAN.AC.UK







NRC STEMFEST

TUESDAY 24 FEBRUARY, 9.30AM-3PM

NORTHERN REGIONAL COLLEGE, COLERAINE CAMPUS

SUITABILITY: YEAR 12 PUPILS

Are you interested in a career in a STEM related area? Want to find out more about what's involved? NRC are running three interactive sessions as part of a day-long event. Learn how to build a Lego Robot or develop a mobile phone app with our IT Staff, Learn how to build a bridge with qualified Quantity Surveyors or investigate the causes and consequences of Ebola. Don't miss the opportunity to experience Science, Technology, Engineering and Maths by taking part in any of these fun vocational sessions.

FREE ADMISSION. BOOKING IS ESSENTIAL VIA NISCIENCEFESTIVAL.COM



BRIGHT CLUB BELFAST

THURSDAY 19 FEBRUARY, 8PM

BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

Where curiosity meets comedy and genius is born. Bright Club is a thinking person's comedy night. It started as an experiment bringing together local comedians with the fascinating minds of people working in Northern Ireland's universities. See what happens when we combine them, on stage, in front of an attractive and inquisitive audience and within reach of a pint glass. It worked the first time round...

ADMISSION: £5

STEM MASTER CLASS

WEDNESDAY 25 FEBRUARY, 10AM-1PM W5, BELFAST

THURSDAY 26 FEBRUARY, 10AM-12PM
NORTH WEST REGIONAL COLLEGE

SUITABILITY: STEM EDUCATORS

The DEL STEM Masterclass will be delivered by Dr. Yvonne Spicer, Vice President for Advocacy and Educational Partnerships at the Museum of Science, Boston, USA. The event will be primarily for educators and industry leaders and Dr Spicer will outline some of the innovative approaches to STEM collaboration and outreach activities undertaken by the Museum. The event will also feature several interactive workshops chaired by local and international STEM stakeholders

The session on Wednesday will include a talk with Claire McNulty, the Director of Science at the British Council, who will discuss "International opportunities in science through the British Council

FREE ADMISSION. REGISTRATION IS ADVISABLE.



STEM IN ACTION FEMALE WORKSHOPS

FRIDAY 27 FEBRUARY, 10AM-2PM BELFAST MET, TITANIC QUARTER

SUITABILITY: BELB SCHOOLS

Belfast Met in collaboration with the CASS Services of the five Education and Library Boards will host a number of STEM in ACTION 'Have a Go' workshops for females across various curriculum areas. These will broaden knowledge and understanding of STEM skills and available career paths, and promote the importance of STEM as a driver for economic growth.

The 'Have a Go' workshops will cover three key STEM curriculum area including ICT, Science and Engineering. Specific workshops include: TV Studio Workshop, Create Mobile Apps using Applnventor, Create Games using GameMaker, Drug Testing, Make 'Edible' Plastic, Make your own Hydrogen, Simple Workings of a Car Engine, Balance and Static Electricity, Space Science, Agri-Food Testing, Human and Animal Organ Models, Cavity Slides, Auto CAD, Motor Vehicle Testing and Diagnostics, Basic Plumbing, Basic Electricity, Solar Panels and Renewable Technologies. Students will have the opportunity to take part in a number of workshops throughout the event which will give them a broad overview of various STEM careers.

INVITES WILL BE SENT DIRECTLY TO SCHOOLS BY BELB. FOR GENERAL ENQUIRIES PLEASE CONTACT MICHELLE FULTON ON 02890 564083.

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LIFTING THE LID:ONGOING ADVENTURES IN THE WORLD OF PSEUDOSCIENCE

TUESDAY 24 FEBRUARY, 8PM

SUNFLOWER BAR, BELFAST

SUITABILITY: 18 YRS+

Belfast Skeptics present Michael Marshall - Project Director of the Good Thinking Society and Vice President of Merseyside Skeptics. He regularly speaks with proponents of pseudoscience for the Be Reasonable podcast. He was co-founder of the popular QED conference, and has written for the Guardian, The Times and New Statesman.

It's easy to think of pseudoscience existing in a glass case at a museum – something to be examined and critiqued from a safe distance, but not something to touch and to play with. Using examples taken from his own personal experiences in skepticism, Michael Marshall will show what happens when you begin to crack the surface of pseudoscience – revealing the surprising, sometimes-shocking and often-comic adventures that lie beneath.

ADMISSION: £5

FORENSICS WORKSHOP FOR TEACHERS

WEDNESDAY 25 FEBRUARY, 5-7.30PM

STEM MODULE, QUEEN'S UNIVERSITY BELFAST

SUITABILITY: TEACHERS

The Association for Science Education in conjunction with The STEM Module are hosting a Forensics workshop for the NI Science Festival. The workshop will cover the following: DNA, film chromatography, fingerprints, footprints in the sand, comparing paint samples, fibre analysis and blood typing. This is a CPD event for teachers and due to the small location, it will be capped at 20 attendees on a first come first served basis.

FREE ADMISSION. TO REGISTER, TEACHERS SHOULD CONTACT WILSON AGNEW WILSONRAGNEW@HOTMAIL.COM



BIG VIDEO CHALLENGE

MONDAY 23 - FRIDAY 27 FEBRUARY

VARIOUS SCHOOLS ACROSS NI

SUITABILITY: SECONDARY EDUCATION

Throughout the NI Science Festival, the team from CultureTECH will deliver over a dozen workshops in schools throughout Northern Ireland. The Big Video Challenge is a creative educational project which encourages young people to make exciting short films on science-related subjects.

Delivered in partnership with Seagate, Belfast City Council and Arts & Business NI, the team will be working with hundreds of young people to imagine and investigate how technology will affect the careers of the future - from robot nurses to Al lawyers. They'll also have a go at making, and breaking, their own ciphers and codes in a unique project that combines history, modern cryptography and a pinch of spy thriller fun!

FREE ADMISSION. SCHOOLS INTERESTED IN TAKING PART CAN CONTACT RACHEL@CULTURETECH.CO FOR FURTHER DETAILS.



FAMELAB NORTHERN IRELAND FINAL

WEDNESDAY 25 FEBRUARY, 8-11PM

BLACK BOX, BELFAST

SUITABILITY: 18 YRS+

Are you ready to witness the new faces of science? FameLab Northern Ireland's live final, presented by mentalist David Meade, brings together some of our most exciting new names in science communication. They've already had to fight for their place through video entry, and now, with an arsenal of charm, personality and scientific expertise, the ten chosen finalists will have just three minutes to impress our judges in the most exciting, innovative way possible. Whether talking science or engineering, topics will range from the practical to the bizarre, but you're sure to be amazed by what our contestants have in store.

FREE ADMISSION. BOOKING IS ESSENTIAL.





SCIENCE THROUGH THE BRITISH COUNCIL

There are many international opportunities in science for individuals and organisations through the British Council. In higher and further education we link scientists globally, promote research collaboration and encourage grassroots discussion and debate. Schools can get involved in international science work through partnerships and staff mobility in programmes like Erasmus+ and Connecting Classrooms.



On Wednesday 12 November 2014.....

.... Astronomers from Queen's University Belfast assisted with the first ever landing by a spacecraft on a comet..........

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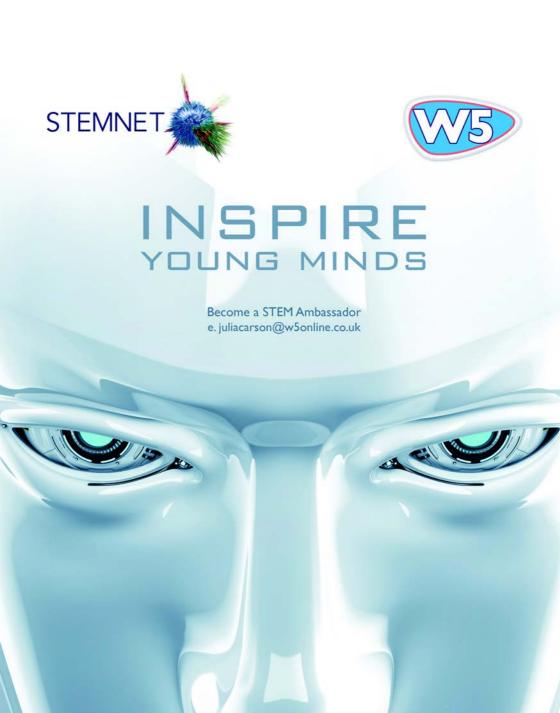
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Email: economicdevelopment@belfastcity.gov.uk
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AT A GLANCE GUIDE

THURSDAY 19 FEBRUARY					
BODYWORKS	W5	10AM-5PM	MIND & BODY p.18		
ELECTRIFYING TASTER DAYS	QUEEN'S UNIVERSITY	9.30AM-3.30PM	ENGINEERING & ROBOTICS p.26		
THE MAGIC OF TIME	ULSTER AMERICAN FOLK PARK	10AM-4PM	MATHS MATTERS p.47		
TECHNOLOGY ROCKS	FOYLE COLLEGE	11AM	SOUND & LIGHT p.58		
AFTER SCHOOLS CLUB	NERVE CENTRE	4PM	DESIGN, MAKE, CREATE p.64		
HOW VOLCANOES HELP SOLVE CRIMES	ULSTER MUSEUM	2.30PM	NATURAL WORLD p.42		
CELEBRATING SCIENCE AT QUB	RIDELL HALL, QUB	5PM	SCIENCE COMMUNICATION p.70		
PRIMARY SCIENCE IN AN ESPRESSO	ESTABLISHED COFFEE	7PM	SCIENCE COMMUNICATION p.71		
RENAISSANCE SCIENCE	NO ALIBIS	6.30PM	SCIENCE IN SOCIETY p.54		
THE INTERNET'S OWN BOY	BFF BEANBAG CINEMA	7.30PM	SCIENCE IN SOCIETY p.52		
BRIGHT CLUB	BLACK BOX	8РМ	SCIENCE COMMUNICATION p.72		
CHEMIST'S WAR	SOMME CENTRE	7PM	SCIENCE IN SOCIETY p.50		
FRIDAY 20 FEBRUA	NRY				
BODYWORKS	W5	10AM-5PM	MIND & BODY p.18		
ELECTRIFYING TASTER DAYS	QUEEN'S UNIVERSITY	9.30AM-3.30PM	ENGINEERING & ROBOTICS p.26		
THE MAGIC OF TIME	ULSTER AMERICAN FOLK PARK	10AM-4PM	MATHS MATTERS p.47		
INCLUSIVE CREATIVITY	UU BELFAST	10.30AM-3.30PM	DESIGN, MAKE, CREATE p.68		
TASTER SESSIONS	FABLAB BELFAST	10AM-4PM	DESIGN, MAKE, CREATE p.67		
UGLY ANIMALS	BLACK BOX	1PM	NATURAL WORLD p.40		
DISCOVERY DAY	UU MAGEE	4-9PM	ENGINEERING & ROBOTICS p.30		
WHAT'S GOING ON IN HIS HEAD?	BLACK BOX	6.30PM	MIND & BODY p.24		
HOW TO MAKE A DWARF MAMMOTH	ULSTER MUSEUM	6.30PM	NATURAL WORLD p.40		
BRAIN SEX	BLACK BOX	8PM	MIND & BODY p.20		
SATURDAY 21 FEBF	RUARY				
BODYWORKS	W5	10AM-5PM	MIND & BODY p.19		

3D CODER DOJO	UU BELFAST	9.30AM-12.30PM	DESIGN, MAKE, CREATE p.65		
MENU OF THE	ST. GEORGE'S MARKET	10.30AM-3PM	SCIENCE IN SOCIETY p.50		
FUTURE					
MAKER DAY	FABLAB BELFAST	10AM-4PM	DESIGN, MAKE, CREATE p.67		
PINHOLE CAMERA WORKSHOP	BELFAST EXPOSED	1-AM-1PM	SOUND & LIGHT p.60		
FAMILY MAKER TASTER SESSIONS	NERVE CENTRE	10AM-1PM	DESIGN, MAKE, CREATE p.64		
SCIENCE OF THE SEA	TITANIC BELFAST	11AM-4.30PM	NATURAL WORLD p.41		
SKELETONS IN OUR CUPBOARDS	ULSTER MUSEUM	11AM-4.30PM	NATURAL WORLD p.43		
LIGHTS, CAMERA, MATH-A-MAGIC	CASTLE COURT	VARIOUS TIMES	MATHS MATTERS p.46		
ART & SCIENCE OF SOUND	SARC AT QUEEN'S	11AM-5PM	SOUND & LIGHT p.56		
THE GOLDEN RECORD	BLACK BOX	8PM-LATE	SOUND & LIGHT p.57		
ZOMBIE SCIENCE	ST. MARY'S COLLEGE	VARIOUS TIMES	MIND & BODY p.21		
SUNDAY 22 FEBRU	ARY				
BODYWORKS	W5	10AM-5PM	MIND & BODY p.18		
SCIENCE OF THE SEA	TITANIC BELFAST	11AM-4.30PM	NATURAL WORLD p.41		
MENU OF THE FUTURE	ST. GEORGE'S MARKET	10.30AM-3PM	SCIENCE IN SOCIETY p.50		
BURIALS, BONES & BODIES	BLACK BOX	12.30PM	MIND & BODY p.23		
ZOMBIE SCIENCE	BLACK BOX	VARIOUS TIMES	MIND & BODY p.21		
WHY WE DIE?	BLACK BOX	ЗРМ	MIND & BODY p.22		
PINHOLE CAMERA WORKSHOP	BELFAST EXPOSED	1-AM-1PM	SOUND & LIGHT p.60		
THEIMMORTALISTS	BFF BEANBAG CINEMA	6.30PM	MIND & BODY p.24		
MONDAY 23 FEBRUARY					
ENGINEERING FUTURES	UU JORDANSTOWN	1-9PM	ENGINEERING & ROBOTICS p.29		
MENSA QUIZ	BLACK BOX	7.30PM	SPECIAL EVENTS p.12		
BRIEF HISTORY OF TIME	BLACK BOX	8РМ	SPACE p.35		
TUESDAY 24 FEBRI	UARY				
WORLD'S LARGEST SCIENCE LESSON	ODYSSEY ARENA	9.30AM-1PM	SPECIAL EVENTS p.6		
NRC STEMFEST	COLERAINE	9.30AM-3PM	SCIENCE COMMUNICATION p.72		
AFTER SCHOOLS CLUB	NERVE CENTRE	4PM	DESIGN, MAKE, CREATE p.64		

OPEN NIGHT	ARMAGH PLANETARIUM	7PM	SPACE p.33		
HIGG'S BOSON & CANCER THERAPY	ULSTER MUSEUM	7PM	SCIENCE IN SOCIETY p.53		
ONGOING ADVENTURES IN THE WORLD OF PSEUDOSCIENCE	SUNFLOWER BAR	8PM	SCIENCE IN SOCIETY p.74		
WEDNESDAY 25 FE	BRUARY				
LOTIONS & POTIONS	ULSTER MUSEUM	10.30AM-12.30PM	SPECIAL EVENTS p.16		
STEM MASTERCLASS	W5	TIMETBC	SCIENCE COMMUNICATION p.73		
FORENSIC WORKSHOP	QUEEN'S UNIVERSITY	5PM	SCIENCE COMMUNICATION p.74		
SIR BERNARD CROSSLAND LECTURE	QUEEN'S UNIVERSITY	6РМ	ENGINEERING & ROBOTICS p.27		
LIGHT, PHOTOG- RAPHY & PHYSICS	BELFAST EXPOSED	6.30PM	SOUND & LIGHT p.60		
FAMELAB	BLACK BOX	8РМ	SCIENCE COMMUNICATION p.76		
THURSDAY 26 FEB	RUARY				
MAKE IT DIGITAL	BBC BLACKSTAFF STUDIOS	10AM-7PM	SPECIAL EVENTS p.6		
INTO THE FUTURE WE GO	QUEEN'S UNIVERSITY	10AM-1PM	ENGINEERING & ROBOTICS p.26		
AFTER SCHOOLS CLUB	NERVE CENTRE	4-6PM	DESIGN, MAKE, CREATE p.64		
TURING LECTURE	BELFAST CITY HALL	5.30PM-8.30PM	SPECIAL EVENTS p.7		
GASTROSCIENCE	COOKERY SCHOOL AT JAMES ST. SOUTH	6-8PM	SCIENCE IN SOCIETY p.51		
NEWS FROM THE OUTER FRINGES	BLACK BOX	8PM	SPACE p.35		
FRIDAY 27 FEBRUARY					
STEM IN ACTION FEMALE WORKSHOPS	BELFAST MET	10AM-2PM	SCIENCE COMMUNICATION p.73		
MAKE IT DIGITAL	BBC BLACKSTAFF STUDIOS	10AM-9PM	SPECIAL EVENTS p.6		
STARGAZING WITH MARK THOMPSON	BLACK BOX	1РМ	SPACE p.37		
BE AN ASTRONOMER	BBC BLACKSTAFF STUDIOS	6.30-9.30PM	SPACE p.34		
FRIDAY NIGHT MASHUP	VENUE TBC	6.30PM	SPECIAL EVENTS p.11		
LATE LAB	ULSTER MUSEUM	7-11PM	SPECIAL EVENTS p.10		

SATURDAY 28 FEB	RUARY		
MAKE IT DIGITAL	BBC BLACKSTAFF	10AM-7PM	SPECIAL EVENTS p.6
I'M A PSYCHOLOGIST	QUEEN'S UNIVERSITY	VARIOUS TIMES	MIND & BODY p.22
PLAYSPACE	QFT	VARIOUS TIMES	SPECIAL EVENTS p.13
MACHINATIONS	GLENGORMLEY	10AM-4PM	DESIGN, MAKE, CREATE p.68
GUITAR PEDAL WORKSHOP	OH YEAH CENTRE	10AM-1PM	DESIGN, MAKE, CREATE p.66
ELEMENTS FROM EARTH & SPACE	ULSTER MUSEUM	11AM-4.30PM	SPECIAL EVENTS p.16
SUN WATCH	QUEEN'S UNIVERSITY	11.30AM-4.30PM	SPACE p.32
STARGAZER	ARMAGH PLANETARIUM	12.30-3.30PM	SPACE p.36
BUILD A LIGHT THEREMIN WORKSHOP	OH YEAH CENTRE	1.30PM	DESIGN, MAKE, CREATE p.66
HANDMADE ELECTRONIC MUSIC NIGHT	BLACK BOX	8РМ	SOUND & LIGHT p.59
SUNDAY 1 MARCH			
CSIBELFAST	BLACK BOX	1-4.30PM	SPECIAL EVENTS p.14
PLAYSPACE	QFT	VARIOUS TIMES	SPECIAL EVENTS p.13
HOW TO ALMOST SOLVE THE REITMAN HYPOTHESIS	BLACK BOX	1.30PM	MATHS MATTERS p.48
HISTORY OF ILLUSION	BLACK BOX	3.30PM	SCIENCE IN SOCIETY p.51
LAPTOP ORCHESTRA	SARC AT QUEEN'S	4PM	SOUND & LIGHT p.62
MY LIFE AS AN EXPERIMENT	BLACK BOX	8PM	SPECIAL EVENTS p.12
ONGOING EVENTS			
POWER OF LIGHT	ULSTER MUSEUM	10AM-5PM	SOUND & LIGHT p.61
ELEMENTS EXHIBITION	ULSTER MUSEUM	10AM-5PM	SPECIAL EVENTS p.15
CAFÉ SCIENTIFIQUE	VARIOUS LOCATIONS	7.30-9PM	SCIENCE COMMUNICATION p.71
BIG VIDEO CHALLENGE	VARIOUS SCHOOLS	VARIOUS TIMES	SCIENCE COMMUNICATION p.75
MY SCIENCE SHORTS	VARIOUS SCHOOLS	VARIOUS TIMES	SPECIAL EVENTS p.14
OPAL EXPLORE NATURE ROADSHOWS	VARIOUS SCHOOLS	VARIOUS TIMES	NATURAL WORLD p.44
ASTRONAUT TRAINING	ARMAGH PLANETARIUM	VARIOUS TIMES	SPACE p.38

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