TechFest

Aberdeen and North-East Scotland's Festival of Science, Technology, Engineering & Mathematics

2019 FESTIVAL PROGRAMME

Saturday 24th August – Saturday 28th September

www.techfest.org.uk

Scottish Charity Number: SC010349
Highlights From A Busy Year So Far

We invited Secondary School pupils to join us at RGU for Heroes of Tomorrow in January.

Ben Garrod came with his ‘So You Think You Know About Dinosaurs’ show in April.

Wish you were here at Caithness Science Festival in March.

In May we attended MayFest and had our Dome in the Sir Duncan Rice Library.

Did you see us at the Aberdeen Highland Games in June. We had a fab day in the sun.

Have you seen us at your local library over the summer holidays as part of our Eureka programme.

www.techfest.org.uk
TechFest 2019
Public Programme

BP and Shell are proud, as Joint Principal Sponsors, to welcome you to TechFest 2019 as we celebrate the 26th annual festival of Science, Technology, Engineering and Mathematics (STEM).

We are delighted to support the public programme of fascinating events, which allow audiences to explore science, technology, engineering and maths. The varied programme encourages visitors to get involved in STEM activities throughout the North-east of Scotland through the exciting variety of shows, presentations and workshops on offer.

By supporting TechFest 2019 we aim to provide both enjoyment for the public and inspiration for the next generation of scientists and engineers. We look forward to another successful festival.

Ariel Flores
Regional President
BP North Sea

Steve Phimister
Upstream Director U.K. & Ireland
Shell U.K. Limited
TECHFEST 2019
ACTIVITY WEEKEND
Saturday 24th & Sunday 25th August

TechFest offers people of all ages the opportunity to gain hands-on experience with science and technology. It fires the imagination by allowing young people the chance to try things out themselves and to ask questions directly to experts, hopefully encouraging many to choose a career in science and technology. It is a hugely successful event for Aberdeen and one which Marathon Oil is proud to support.

James Edens
Vice President, Conventional
Marathon Oil Corporation

VENUE OPENING TIMES
Saturday 24th and Sunday 25th August,
09.30 – 16.00 each day.
The Sir Ian Wood Building, Robert Gordon University,
Garthdee Campus, Aberdeen, AB10 7GJ

PICNICS & PACKED LUNCHES
Although there are catering providers on site please feel free to bring your own food and soft drinks.

ADMISSION COSTS
With over 30 hands-on workshops, shows and demonstrations, the TechFest Activity Weekend continues to provide fun, exciting and inspiring activities for all ages. No need to pre-book as this year we are 'In for a Penny, In for a Pound' adults pay £1 and children pay 1p.

BUGGIES & PUSHCHAIRS
We have provided a Buggy Park at the Activity Weekend. Please be aware that it is not staffed and items are left at the owner’s risk.

BABY CHANGE AREA
There will be a Baby Change area provided at the Activity Weekend.

FIRST AID
If you require First Aid Treatment – please visit the ABRAS stand.

Roxy visits her favourite rock pool friends, the Laughing Limpet, the Boring Barnacles, the Prickly Prawns, Starry, the Sea Star, Aggie Anemone and the Creepy Crab on a warm summer’s day. They exchange ideas and their feelings with the help of CC, their magical friend and her happiness song.

Roxy and her Rock Pool Friends
Presented by Live Wire Productions

Roll up, roll up it’s time to check out the science of the circus. Champion Juggler & practicing scientist Dr Ken explores the scientific principles behind the thrills and spills of skilful tricks and impossible stunts. Find out why jugglers love gravity, how clowns use the force of a Jedi and why unicyclists keep moving to stay still. It’s science but not as you may know it!!

Entertaining Science Circus Show
Presented by Dr Ken Farquhar, Inspirational Science

BOOKING INFORMATION – SEE PAGE 30

www.techfest.org.uk
A Breath of Fresh Air

Presented by Jon Davies, thinkscience


The Chemistry of Cooking

Presented and Supported by Robert Gordon University School of Pharmacy and Life Sciences

In cooking, everything is chemistry! Whether you knead bread, bake a pie, or roast meat, chemical reactions are taking place. Food is just a complex mixture of chemicals and cooking can be thought of as a series of chemical reactions. Cooking may be the oldest and most widespread application of chemistry, and recipes the oldest practical result of chemical research.

The TechFest Dome

Presented by TechFest | Sponsored by Apache

Enjoy a visit to the unique environment of the TechFest Dome. Find out why we have day and night, wonder at a sky full of stars and discover the constellations.

NOT SUITABLE FOR UNDER 5 YEARS, BOOK ON THE DAY AT THE DOME.

Programming Lego Robots

Presented and Supported by Robert Gordon University School of Computing

Self-driving cars are just around the corner! Learn how to program a self-driving Lego Mindstorms robot. Watch as it navigates a maze.

Make the Future with Shell

Sponsored and Presented by Shell in conjunction with Aberdeen Science Centre

We believe the answers to tomorrow’s energy challenges lie in the power of people’s ingenuity, and that together we can #makethefuture today. Come and explore Science, Technology, Engineering and Maths with lots of fun, exciting and challenging hands-on activities for the family.

Construct your own toy racing car powered by salt water, produce an electronic drum kit with the Makey-Makey kits, use everyday household materials to create your own science experiment and enter our Engineering challenges.

Build and Program Lego Robots

Presented by John and Mary McGill of ComputerXplorers

Sponsored by BP

Join us for a fun-packed session of exciting, creative and fun computer activity. Using the latest Lego robotics technology to build and program amazing creatures that can move using motors, gears and wheels. You will learn how to program sensors to make the robot react to its surroundings. Program robot birds to chirp, crocodiles to snap and plane engines to rev! This drop in workshop is great fun and ideal for nurturing and enhancing Science, Technology, Engineering and Maths (STEM) skills.

Treemendous Trees

Presented by the Duthie Park Ranger Service

Do you know your Beech from your Birch? Come and meet the Rangers and work on your identification skills, by the time you ‘leaf’ you will know a tree both inside and out, and also learn some other interesting facts along the way!!
Yoga Science

Presented by Rona Main and Sandra Cook
Jointly sponsored by Grampian Yoga Association, Yoga Scotland and British Wheel of Yoga

A scientific led discovery of our amazing bodies and minds through Yoga. This fun session uses Yoga postures to learn about your skeleton & muscles, understand movement, and to gain an awareness of some of the body’s clever systems. By getting on a mat in your socks to take part in Yoga, you will discover the importance of strong, flexible and balanced healthy bodies; and how this benefits the mind. Through simple relaxation techniques, you may also feel the effects Yoga has on encouraging better breathing, positive thoughts and a healthy attitude. Learn, develop an awareness of your potential and have lots of fun at Yoga Science.

Age Range: 4 – 16 years
Running Time: 30 minutes

PARENTS AND CARERS TO BE IN ATTENDANCE AND CAN TAKE PART, BOOK ON THE DAY AT THE WORKSHOP

Home Energy Scotland

Cutting down on how much energy you use, whether at home, school or work, can help save money, energy and the environment. Come and visit us and try out our fun and interactive games, and benefit from our top tips and advice – all designed to help you reduce your carbon footprint.

The UV Drawing Room

Presented by Kenny Bean

Enter the UV Drawing Room and create amazing drawings together using UV torches and special templates. You’ll discover amazing facts about UV light and the history surrounding its discovery while you doodle across the light sensitive tables!

Making Things Move

Presented and Supported by Robert Gordon University School of Engineering

How do we generate movement in different forms of transport? What is it that keeps us moving and, more importantly, what will stop us moving? We will use some demonstrations and hands-on experiments to investigate these important questions.

Powering The Future

Presented by Glasgow Science Centre

Energy underpins our modern lives but there are difficult choices to be made about how we will supply and use energy in the future. Is our energy affordable, secure and environmentally sustainable? As you explore these interactive hands-on exhibits, you can explore our energy options – from how we can produce electricity and fuels to how we can be smarter with our use of energy. What would you do?
The Critter Keeper

Presented by The Critter Keeper

Meet The Critter Keeper and a selection of his amazing exotic animals. Come and chat with David and learn some interesting facts about some weird but wonderful animals. You may also get the opportunity to touch and hold some too. Suitable for all ages, The Critter Crew will amaze you.

Build It

Presented by Aberdeen Science Centre

Discover the engineering skills needed and take part in a range of Built It challenges from our overhanding challenge to building the strongest shape with magnets.

Brilliant Brains

Presented by TauRx Therapeutics, University of Aberdeen

In this workshop you can learn more about the different areas of the brain while painting a little model to take home. Or learn about internal structures such as the hippocampus by solving fun memory puzzles with us. This part of the brain is responsible for your memories and is affected in diseases such as Alzheimer’s. Come talk to us to learn more about this disease or get your memory tested by us!

Maths Week Scotland

Presented and Supported by Robert Gordon University School of Pharmacy and Life Sciences

Join TechFest as we celebrate the up-and-coming Maths Week Scotland by exploring a series of interactive puzzles and challenges. This hands-on session will be accessible and fun for all ages. We look forward to seeing you there to experience the joy of maths in exciting new ways. Visit Maths Week Scotland at www.mathsweek.scot or follow us @mathsweekscot on Twitter.

K’NEX Under the Sea with Subsea 7

Presented by TechFest | Sponsored by Subsea 7

Discover the unique challenges of exploring the subsea world. Find out how science and technology can push the limits of this intriguing environment. Learn about how people dive and work under the sea and how technology can help us go even further.

Toddle Fest

When they’re little, playing is just another way of learning. Let your under 5’s discover the fun of playing in our soft play area, an ideal place for TechFest’s youngest visitors.
Clinical Skills at Foresterhill with Teddy Bears Hospital and AUPS

Supported and Presented by the University of Aberdeen Medical School Clinical Skills Centre and Teddy Bear Hospital with AUPS Save a Child’s Life

Don’t forget to bring your own teddy!!

Come along and join the Medical School Clinical Skills Teaching Team and find out how we train healthcare professionals of the future using the latest state of the art technology with our family of Human Patient Simulators and 360 degree cameras.

As always for our younger clinical skills trainees don’t forget to bring your teddy bear or soft toy to the Teddy Bear’s Hospital for a check-up. You can even watch and assist the doctors in the operating theatre as they help a teddy bear get better.

Artroom at TechFest

Presented by Grampian Hospitals Art Trust

Join Grampian Hospitals Art Trust’s Artroom team to explore the world of Mark-1, the world’s first whole body MRI scanner which is currently on permanent display in The Suttie Arts Space in Aberdeen Royal Infirmary. Explore how the first hand drawn images of a scanned mouse were created and colour in your own version.

Maths Around the World

Presented by TechFest | Sponsored by Chevron

A fun, hands-on maths workshop designed to challenge and build confidence. A variety of puzzles, representing different countries, are set out around the room. In small teams, pupils travel around each puzzle with a customised passport logging the countries they have visited. Help and encouragement is at hand and solutions checked.

GPSticket

Join GPSticket at our activity station and enjoy the chance to start collecting our local attractions. Brand new for TechFest 2019 you can also take part in the Festival treasure hunt! Stick with us as we are going places.

Geology Rocks

Presented by TechFest | Sponsored by CNR International

Get your hands on some exciting rocks in this interactive workshop, learn about natural processes that have shaped the surface of the earth and delve underground to explore what lies beneath.

Apollo 7

Presented by TechFest | Sponsored by TechnipFMC

Ensuring astronaut safety is one of the biggest challenges faced by NASA engineers. Work as a team to apply physics and engineering principles in a dynamic and creative way to bring an astronaut safely back to Earth.

Beat the Bugs

Presented by NHS Grampian Antimicrobial Management Team

Come and find out about some amazing characters from the world of microbes. Microbes or micro-organisms are living things only visible under a microscope. They live in us and all around us and they come in all shapes and sizes. Some are useful for humans; some deadly! Antibiotics kill bugs called bacteria that cause infections. At our workshop you can create your own superbug, learn how bugs spread infections with the Shrek snotgun, find out some interesting facts about antibiotics and go home with some top tips on how to beat the bad bugs.
Meet the Robert Gordon University Innovation Team at our on-campus co-working space. Find out how we support entrepreneurs, what the future of work will look like and the range of start-up businesses we have helped develop.

Presented by Robert Gordon University Innovation Team

Dolphinwatch

Join RSPB Scotland to learn more about the local Dolphinwatch project, learn what amazing marine wildlife can be seen in Aberdeen City and find out ways you can protect them. Join in with lots of activities from our popular bycatch challenge where you race against the clock to rescue the animals to our disturbance game where you learn more about why dolphins need space to swim while testing your throwing aim. We will also have an exciting lock box challenge, come along to find out more!

Presented by RSPB Scotland

Wild About Maths

Take a walk on the wild side with TechFest as you undertake puzzles, challenges and problem solving activities inspired by the natural world. In these hands-on maths activities you can work through a series of puzzles designed to challenge your idea of how much fun maths can be.

Presented by TechFest | Sponsored by Marathon Oil

RGU Innovation Hub

Meet the Robert Gordon University Innovation Team at our on-campus co-working space. Find out how we support entrepreneurs, what the future of work will look like and the range of start-up businesses we have helped develop.

Presented by Robert Gordon University Innovation Team

Woodland to Waves: Environmental Detectives

Become an environmental detective today! Join us on a journey down the river, through woodlands to the sea and help us to identify and protect the UK’s incredible animals and habitats on the way.

Presented by JNCC, SEPA and Saving Scotland’s Red Squirrels

Amazing Aberdeen

Come and learn about the scientists and engineers who have made Aberdeen the incredible city it is!

Presented by TechFest | Sponsored by Equinor

NASA Space Zone

Join us in our Space Zone for hands-on practical activities with an out of this world twist.

Innovate your world, connect with BECS

Take part in therapeutic sensory activities with BECS who provides specialist play, leisure and sensory activities for all children including those with additional support needs and their families.

Presented by TechFest | Sponsored by Premier Oil

STEM through the Ages

History is all around us, but have you ever considered how Science, Technology, Engineering and Maths have impacted on the ancient world? Investigate the challenges that civilisations overcame to make their environments safer. Discover how they were able to navigate incredible distances successfully and learn how to do it yourself.

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Presented by TechFest | Sponsored by Premier Oil
Our industry is driven by technological advancement and it is the ‘aha’ or eureka moments that often develop into more innovative and efficient ways to safely explore for and produce oil and gas. By supporting initiatives like TechFest’s Eureka Series we hope to encourage and inspire the next generation of industry professionals that can drive our industry forward with their game-changing ideas.

Greta Lydecker, Managing Director
Chevron Upstream Europe

TechFest Eureka Summer Series in the Library

As part of our Eureka Series sponsored by Chevron, TechFest has organised a series of Summer activities to be held across Aberdeen and Aberdeenshire.

If you would like more information, please contact TechFest at enquiries@techfest.org.uk

Children, from 4 – 12 years, will be given the opportunity to test their science, engineering and maths skills through a number of hands-on workshops including using science to solve mysteries, completing puzzles and designing and building.

If you would like to attend, please contact your local library.

The cost of each workshop is £1 per child, please note all children must be accompanied by an adult.

STEM through the Ages

Presented by TechFest

The past is the key to the future, learn about the Science, Technology, Engineering and Maths behind ancient civilisations. Eureka workshops give children the opportunity to discover historical science secrets through experimentation and play.

Workshops cover the following topics: Effective Egyptians, Glorious Greeks, Resilient Romans, Valuable Vikings

The Sphinx, Egypt
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<th>Friday 2nd August, 2019</th>
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<td>Mastrick Library, Greenfern Road, Mastrick, Aberdeen, AB16 6TR</td>
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The energy industry depends on advances in science, technology, engineering and maths. Investing in science is key for us to be able to provide the world with the energy it needs in a sustainable way.

TechFest offers something for everyone in STEM – it promotes young children’s natural curiosity as well as offers opportunities for secondary pupils to gain an insight into subjects for future studies or careers.

We are proud to play our part in inspiring the next generation of scientists and engineers with TechFest to improve the world in which we live. We call them our ‘Heroes of Tomorrow’.

Hedda Felin, Senior Vice President
Equinor UK and Ireland Offshore

Activity Weekend
TechFest Goes Quiet

For families with children who have additional support needs, we have opened up our festival to allow you to enjoy the events as a family at your own pace in a safe, supported environment away from the hustle and bustle of the crowds.

After you have enjoyed all the workshops, relax with a cup of tea or juice.

TechFest is happy to support your individual requirements, please contact us to discuss how best we can support you or for more details at Enquiries@techfest.org.uk.

Date: Saturday 24th August 2019
Time: 16.00-18.00
Cost: Adults £1, Children 1p pay on the door
Venue: Sir Ian Wood Building, Robert Gordon University, Garthdee Campus, AB10 7GJ

AGE CLASSIFICATION

This key will help you identify which events are suitable for each age group. The appropriate symbols will be highlighted in yellow under each event.

Suitable for Family
Suitable for Young Adult
Suitable for Adult
Suitable for Student
TechFest is coming to Aden Country Park. Join us for a fun filled day of STEM, Science, Technology, Engineering and Mathematics as part of this year’s TechFest Eureka Series sponsored by Chevron. With hands-on activities and workshops, this interactive experience provides inspiring activities for all ages. Bring a packed lunch and stay all day.

Roxy visits her favourite rock pool friends, the Laughing Limpet, the Boring Barnacles, the Prickly Prawns, Starry, the Sea Star, Aggie Anemone and the Creepy Crab on a warm summer’s day. They exchange ideas and their feelings with the help of CC, their magical friend and her happiness song.

Show Times throughout the day.

Join the TechFest team at our Slime Academy as we explore different ways to make your perfect Slime. Fun for all the family this workshop will add some sparkle and squelch as well as getting you to think about the chemistry involved.

How to Book: No Pre-Booking needed!

How to find us: The entrance to the park is situated half a mile west of the village of Mintlaw on the A950 New Pitsligo road (Station Road)

Travel: Buses run regularly to Mintlaw from Aberdeen and Fraserburgh. Information on Stagecoach services 67, X57, X68 can be found on their website – www.stagecoachbus.com/timetables

Access: Parking on site. Disabled parking spaces at entrance Wheelchair accessible throughout.

The award-winning Aberdeenshire Farming Museum at Aden brings alive the story of the North East’s farming history in the restored estate home farm. This unique semi-circular steading is in turn surrounded by the beautiful woodlands of Aden Country Park which provide an attractive haven for wildlife. The Farming Museum portrays the story of north-east farming in three related interpretive themes: a display celebrating innovations in farming methods and implements from the 1780s onwards; the Horsemanship’s House which recreates an impression of life in the 1920s, with daily demonstrations of making oatcakes over an open fire; and Hareshowe Farm a small Buchan farm transported nine miles and rebuilt at Aden. Discover the farm and its family, the Barrons, around the time electricity arrived in 1955.

Date: Throughout the summer season until the last Sunday in October. The park is open every day from dawn until dusk.

Time: 10:15am to 4pm (last entry 3:30pm) Thursday to Tuesday (closed Weds)

Cost: Free

Venue: Aberdeenshire Farming Museum at Aden Country Park, Mintlaw, AB52 4FQ

Contact: 01771 624590

Eureka Festival Demonstrations

Presented by TechFest

Join us for fun festival STEM madness with hands-on practical demonstrations suitable for all ages.
EUREKA AT
THE BETTRIDGE CENTRE

You can do it too Science Fair with Newtonhill Out of School Club

Join Newtonhill Out Of School Club at the Bettridge Centre with a fun filled afternoon of STEM, Science, Technology, Engineering and Mathematics as part of this year’s TechFest Eureka Series sponsored by Chevron.

Date: Friday 16th August
Time: 14.00 -16.00
Cost: £2 entry – under 3’s free
Venue: The Bettridge Centre, Greystone Place, Newtonhill, AB39 3UL

How to Book: No Pre-Booking needed!

How to find us: The Bettridge Centre is located in the village of Newtonhill, after leaving the A90, take Newtonhill Road as far as it will go, cross the railway bridge and then turn sharp right to the Bettridge Centre on Greystone Place.

Travel: Buses run regularly to Newtonhill from Aberdeen and Stonehaven. Information on Stagecoach services 7, 7A, 7B, X6 and X7 can be found on their website www.stagecoachbus.com/timetables


Sunday 1st September 2019, 13.00 -16.00,
The Bettridge Centre, Greystone Place, Newtonhill AB39 3UL, £1 entry - under 3’s free

Roxy and her Rock Pool Friends

Roxy visits her favourite rock pool friends, the Laughing Limpet, the Boring Barnacles, the Prickly Prawns, Starry, the Sea Star, Aggie Anemone and the Creepy Crab on a warm summer’s day. They exchange ideas and their feelings with the help of CC, their magical friend and her happiness song.

Eureka Festival Demonstrations

Presented by TechFest

Join us for fun festival STEM madness with hands-on practical demonstrations suitable for all ages.

Contact us: enquiries@techfest.org.uk

PUBLIC PROGRAMME
TechFest 2019
**To the Moon and Back**

Presented by Professor Martin Hendry, University of Glasgow

Aberdeen Astronomical Society would like to invite you to come and join us for this fascinating free talk celebrating this year’s fiftieth anniversary of the Apollo 11 mission, as well as the formation of AAS. Join University of Glasgow astronomer Martin Hendry on a voyage of discovery as he explores the science and technology behind Neil Armstrong’s giant leap for humankind. And if you’ve ever wondered about the (surprisingly persistent) claims that the Moon landings were faked, prepare for some debunking fun as Martin casts a critical eye over the most popular conspiracy theories – before looking ahead to the exciting future for human space exploration. Further information and tickets available at aberdeen-astro.eventbrite.co.uk

Date: Tuesday 10th September 2019
Time: 19.00
Cost: Free
Venue: MacRobert Hall, Robert Gordon’s College, Schoolhill, Aberdeen, AB10 1FE

**How to Speak Gorilla**

Presented by Dr Michael Leach

Michael Leach is a zoologist and author. Using his experience living with mountain gorillas of Central Africa, gathering material for a book, Michael conducts a practical workshop on getting close to wild apes. Or, in other words, “how to walk, think and speak like a gorilla” - one of the most iconic animals on the planet. The audience learns, and participates in, how to chest-beat, knuckle-walk and communicate to their family using belches.

Date: Saturday 14th September 2019
Time: 14.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE
**TechFest 2019**

**OPENING EVENT**

**Foxdog Studios: Tomorrow's Office**

Presented by Peter Sutton and Lloyd Henning, Foxdog Studios

In a rare appearance outside, IT rock’n’roll superstars Lloyd and Pete bring their latest inventions from their cable-infested living room to TechFest with a brand-new show. Following last year’s show Robot Chef, where the audience controlled the duo’s robot chef from their phones, their new inventions include a musical mop, a souped-up sausage cannon and a pair of light-up bongo boots. Bring your phone, control the office of tomorrow. Featured in WIRED Magazine. Winner of Best Show at Leicester Comedy Festival, the Chortle Award for Innovation and two Malcolm Hardee Awards. “If you don’t enjoy their brand of techy musical comedy, there must be something wrong with your hardware” - Four Star Rating, Time Out

Date: Monday 16th September 2019  
Time: 19.30  
Cost: £4 / £3 concession  
Venue: ONE Tech Hub, Schoolhill, Aberdeen AB10 1FR

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**Cruickshank Botanic Garden Tour**

Presented by Mark Paterson, University of Aberdeen

Mark Paterson, Curator of the University of Aberdeen’s Cruickshank Botanic Garden, will lead you on a tour highlighting the management of Cruickshank Botanic Garden during the year. He will provide a captivating insight into the wonderful array of plants and flowers; their research uses and discuss some of the future plans for these beautiful gardens.

Date: Tuesday 17th September 2019  
Time: 18.00  
Venue: Cruickshank Botanic Garden, meet in the courtyard of the Cruickshank Building in the south-eastern section of the Garden. If the weather is wet, an indoor slide show and talk will be given highlighting the Garden through the seasons.  
Cost: £4 / £3 concession (Pre-booking essential as places are limited)

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**Tomorrow’s Doctors: Medical Students Leading Cutting-Edge Research**

Presented by Aberdeen Student Society for Academic Medicine, University of Aberdeen

Aberdeen Student Society for Academic Medicine have invited top medical student researchers to share their cutting-edge research with members of the public. There will be a series of short talks followed by a chance to mingle with the speakers. The University of Aberdeen is at the forefront of encouraging medical students to pursue a career as clinician scientists, and this event showcases the very best Aberdeen has to offer. This event is suitable for anyone who has any interest in science, healthcare or medicine.

Date: Tuesday 17th September  
Time: 19.00  
Cost: £4 / £3 concession  
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE

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**Career Guide - See page 28**
TechFest has teamed up with the Aberdeen Branch of the Society for Underwater Technology (SUT) to bring together an evening of quick-fire technology themed presentations. The SUT, along with its Member Companies, will produce and deliver up to nine (9) ten-minute presentations, all of which will showcase the latest innovations in subsea technology and processes.

“Subsea Technology – Totally Technical” will be a must-see event in this year’s TechFest programme.

**Date:** Wednesday 18th September  
**Time:** 17.30 for 18.00 start  
**Cost:** £4 / £3 concession  
**Venue:** Fraser Noble Building, University of Aberdeen, AB24 3UE  

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**Subsea Technology - Totally Technical**

**Presented by Dr Michael Wood, Emeritus Senior Lecturer, University of Aberdeen**

Join us for this fascinating insight to how map making has developed over the years, from the pen and ink drawings to the modern 3D virtual mapping world of computers. Dr Michael Wood has been President of the British Cartographic Society (the business and academic aspects) and is a member of The Society of Cartographers (the practical technical cartographers of the UK) and The International Cartographic Association (ICA). His work involved travelling the World between 1991-2003. He received an OBE for ‘Services to Cartography’ in 2003.

**Date:** Tuesday 17th September  
**Time:** 18.30  
**Cost:** £4 / £3 concession  
**Venue:** Fraser Noble Building, University of Aberdeen, AB24 3UE

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**Social communication across the generations**

**Presented by Professor Louise Phillips, University of Aberdeen**

As we get older, there are changes to the brain, cognition, motivation and health, which can influence the way in which we communicate with each other. There are also generational differences in the rules of social engagement. At this event, Professor Louise Phillips will discuss evidence about the nature of social communication changes with age, and the impact this can have on the lives of people of all generations.

**Date:** Thursday 19th September  
**Time:** 18.30  
**Cost:** £4, £3 concession  
**Venue:** Belmont Filmhouse, 49 Belmont Street, Aberdeen, AB10 1JS

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**Bridging the gap: patient involvement in design of care**

**Presented by Josefine Björkqvist and Sheela Tripathee, Institute of Applied Health Sciences, University of Aberdeen**

Patient involvement in the design of care can help provide health services that are more relevant and responsive to the individual needs of patients. Come and learn about patient and public involvement in health research, policy and care, with examples from urological cancer care.

**Date:** Wednesday 18th September  
**Time:** 7pm  
**Cost:** Free  
**Venue:** Belmont Filmhouse, 49 Belmont Street, Aberdeen, AB10 1JS

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**From ink on paper to 3D virtual mapping: A life in Cartography**

**Presented by Dr Michael Wood, Emeritus Senior Lecturer, University of Aberdeen**

Join us for this fascinating insight to how map making has developed over the years, from the pen and ink drawings to the modern 3D virtual mapping world of computers. Dr Michael Wood has been President of the British Cartographic Society (the business and academic aspects) and is a member of The Society of Cartographers (the practical technical cartographers of the UK) and The International Cartographic Association (ICA). His work involved travelling the World between 1991-2003. He received an OBE for ‘Services to Cartography’ in 2003.

**Date:** Tuesday 17th September  
**Time:** 18.30  
**Cost:** £4 / £3 concession  
**Venue:** Fraser Noble Building, University of Aberdeen, AB24 3UE

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[www.techfest.org.uk](http://www.techfest.org.uk)
How to win the battle with Insomnia

Presented by Dr Olga Runcie, Somniance Ltd

Insomnia is the most common sleep disorder. Chronic insomnia is reported to affect up to 10% of the general population. Insomnia causes much distress to sufferers and is associated with low quality of life and a higher level of physical and mental illness. In this talk Dr Runcie will discuss how to deal with anxiety and fear about not sleeping. You will learn how to change your sleep routine in order to break a vicious insomnia cycle.

Date: Thursday 19th September
Time: 19.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, AB24 3UE

Scot Free Tours: Science and the City Tour

Presented by Scot Free Tours Aberdeen

Aberdeen scientists are responsible for an array of world-changing discoveries, from finding the cure to diabetes to the equation behind mobile phones. But what of the people behind these technological developments? Join Scot Free Tours to hear the human stories of scientific innovation, featuring a whole lot of backstabbing, unethical experiments and Margaret Thatcher’s ex-boyfriend. You’ll never see Aberdeen city centre in the same way again.

Date: Saturday 21st September
Time: 15.30
Cost: Free but Donations are welcome.
Venue: Meeting point outside Marischal College main entrance, Broad Street, Aberdeen, AB10 1AB

New Music Workshop on Microtonality

With composer Donald Bousted, Artistic Director of Microtonal Projects and EUROMicroFest

Duo Contour and composer, Donald Bousted present the microtonal trumpets, the malletKat (a midi mallet instrument) and the tunings (quarter-tone and 19-division of the octave) which the instruments will play in this evening’s concert.

www.donaldbousted.com
www.duocontour.org
www.microtonalprojects.com

Date: Saturday 21st September
Time: 14.30
Cost: £4 / £3 concession
Venue: Butchart Centre, University Road, Aberdeen, AB24 3UT

New Music for Microtonal Trumpets and malletKat

Presented by duo Contour; Stephen Altoft, microtonal trumpets and Lee Ferguson, malletKat

Based in Freiburg, Germany, duo Contour has long-established working relationships with composers such as Donald Bousted, Christopher Fox, Jürg Frey, Anne La Berge and James Saunders. As part of the Microtonal Projects Collective, they have developed repertoire for malletKat (a midi mallet instrument) and microtonal trumpets, and appear regularly at EUROMicroFest.

Date: Saturday 21st September
Time: 18.00
Cost: £4 / £3 concession
Venue: Butchart Centre, University Road, Aberdeen, AB24 3UT

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Rocks, Stars and Rockstar Rockets: Constellation Making, Handling Rocks from Space and Rocket Engineering Competition

Presented by CPS200 | University of Edinburgh | ROE BIS Scotland

As part of this drop-in workshop, the participants will create their own constellation picture to take home, using supplied “night sky” postcards and sticky stars. For larger groups of participants or more determined individuals, there is also an option to create a number of constellations and put them up on a wall to make a “night sky” mural. As well as the constellation shapes, they will incorporate different coloured stickers to represent different stellar temperatures/sizes. They will also be able to handle some “rocks from space” and find out more about how we use Meteorites to understand evolution of our own Solar System. Weather and space permitting, there might perhaps even be a chance to make a paper rocket and launch it with a compressed air launcher. The activity will be complimented with discussing the cultural and scientific significance of the constellations and providing information about current work in Astrophysics research and technology development.

Date: Saturday 21st September
Time: 14.00 – 16.00
Cost: £1 pay on the door
Venue: Sir Duncan Rice Library, University of Aberdeen, AB24 3AA

TechFest
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Tag your pics and comments #techfest19
www.techfest.org.uk

From Charles Piazzi Smyth to Scottish Spaceport: 200 years of reaching for the stars

Presented by CPS200 | University of Edinburgh | ROE BIS Scotland

In this talk, we will link the rich History of Astronomy and Space Science in Scotland with present-day exciting new developments and ambitions, including the proposal to build first Scottish Spaceports. From Astronomers moving their instruments to higher and higher altitudes, to space entrepreneurs hoping to mine asteroids, 50 years since the Moon landings, a new Space Race seems to be starting off! What should we believe and what is “fake news”? Looking at how science, engineering and the rest of society are co-evolving ideas about the future Space Exploration and an off-Earth Economy - what are the opportunities in/for Scotland and how/should we take them? Building a new space ecosystem is not trivial – after all, who said it was not rocket science?!

Date: Saturday 21st September
Time: 18.00
Cost: £4 / £3 concession
Venue: Sir Duncan Rice Library, University of Aberdeen, AB24 3AA
Innovation at RGU – Stories from University Start-up Entrepreneurs

Presented by Robert Gordon University Innovation Team

How do you turn an idea into a viable business? At Robert Gordon University, we seek to develop a culture of entrepreneurship and support our community to turn their ideas into reality. This session will give an overview of our projects and introduce teams from our Start-up Accelerator to tell stories of the highs and lows of building a business and the lessons they have learnt in using technologies to prepare us for the future.

Date: Monday 23rd September
Time: 18.30 – 19.30
Cost: £4 / £3 concession
Venue: ONE Tech Hub, Schoolhill, Aberdeen AB10 1FR

HYPED

Presented by the University of Edinburgh Hyperloop Team

Join the University of Edinburgh Hyperloop team as they explain the design and manufacture of the Hyperloop; Elon Musk’s concept for the future of mass transportation. The concept would see electrically propelled pods travel autonomously through a near-vacuum tube. The pods will be able to reach speeds comparable to aircraft and could see a journey such as Edinburgh to London shortened to 50 minutes.

Date: Monday 23rd September 2019
Time: 17.30 – 18.30
Cost: £4 / £3 concession
Venue: ONE Tech Hub, Schoolhill, Aberdeen AB10 1FR

Hollywood Science

Presented by Dr Jonathan Hare, University of Sussex

Based on the BBC / OU TV series Hollywood Science. We ask how realistic is the science behind some of Hollywood’s classic movies and stunts? We will take a number of Hollywood Films and look in more detail to find out. Depending on time, films will include; SPEED, Jason Bourne, The Score, Waterworld, UP, Moon, Angels and Demons, National Treasure.

Date: Tuesday 24th September 2019
Time: 18.00
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE

Walking with Birds

The Art of Audubon and MacGillivray

The Gallery, Sir Duncan Rice Library

6 September 2019 to 21 February 2020

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Medication can be harmful! What can I do to reduce the harm from taking medicine?

Presented by Miss Katherine Graves-Morris: Medical Student Year 2, Dr Carrie Stewart, Post-Doctoral Research Fellow, Dr Roy Soiza, Consultant Physician/Honorary Senior Lecturer Prof Phyo Myint, Professor of Medicine of Old Age, University of Aberdeen

All medications have side effects. These side effects are wide ranging, and they can be short term side effects or long-term side effects. Our research focuses on how best to reduce such harm. Our presentation will demonstrate how patient and public engagement is essential in reducing such harm.

Date: Tuesday 24th September 2019
Time: 18.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE

Superhero Science

Presented by Dr Matt Pritchard

Are superpowers fact, fiction or feasible in the future? Explore invisibility, superstrength, body armour, levitation, mind control and find out what they do (or don’t) have to do with real science. And for those superpowers which are scientifically impossible? That’s where the magic comes in!

Date: Wednesday 25th September 2019
Time: 18.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE

Fullerenes, Nanotubes and Nobel Prizes - the discovery of Buckminsterfullerene: Can C60 Prolong Your Life?

Presented by Dr Jonathan Hare, University of Sussex

The discovery of a new form of carbon in 1985 - the Fullerenes - has led to a new carbon mechano that promises amazing developments for the future. In 1996 the Nobel Prize for Chemistry was awarded for the discovery of these new and potentially important materials. This talk is an account of the scientific story, breakthroughs and latest research. It will also cover the most recent developments of people around the world eating it (in olive oil)! A 2012 rat study showed doubling of life, so people are now eating C60! Jonathan was directly involved with the Nobel Prize winning C60 research.

Date: Tuesday 24th September 2019
Time: 19.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, Aberdeen, AB24 3UE

FIERCE Beer Brewery Tour

FIERCE BEER are Aberdeen City’s only microbrewery. Launched in April 2016, FIERCE, concentrate on beers that challenge the senses. Fresh and flavourful are two key elements. The beers must taste of what the label says – so expect Raspberries, Chocolate, Vanilla, Coffee and more. On the top of that, there are always new and exciting projects going on – spirits, barrels, experiments - it has a lot to offer. FIERCE will take your taste buds to a new dimension. Once you turn FIERCE, there is no turning back… Age Suitability: 18+

Date: Wednesday 25th September 2019
Time: 18.30
Venue: Fierce Brewery, Unit 49, 46 Howe Moss Avenue, Dyce, AB21 0GP
Cost: £7.50

www.techfest.org.uk
Troll hunting: Recognising and coping with cyberbullying

Presented by Dr Amy Irwin, Dr Ceri Trevethan, Dr Emma Hepburn, University of Aberdeen

Cyberbullying is a concern among young people with as many as 75% of school children experiencing cyberbullying at some stage. This interactive seminar will discuss four types of ‘troll’ - cyberbully types (harassment, flaming, impersonation, stalking). Clinical and Applied Psychologists will talk you through how to spot the signs of cyberbullying, the impact that bullying can have, and how to find support and cope with cyberbullying. Come along to find out more and learn to squash cyber-trolls!

Date: Wednesday 25th September 2019
Time: 19.30
Cost: £4 / £3 concession
Venue: Fraser Noble Building, University of Aberdeen, AB24 3UE

Dolphins at the Battery: Aberdeen’s Circular Showcase

Presented by Fiona McIntyre, Greyhope Bay Ltd

How do our daily choices and actions impact our marine and natural environment? Greyhope Bay has designed a zero-footprint visitor centre to be built at Torry Battery where you can see circular technologies and models of design first-hand while viewing the city’s resident dolphins. Find out how you can be a part of it!

Date: Thursday 26th September 2019
Time: 18.30
Cost: £4, £3 concession
Venue: Fraser Noble Building, University of Aberdeen, AB24 3UE

Bright Club

Join us at Aberdeen’s premier comedy club, Breakneck Comedy, for a night of stand up with a difference...a research twist! Bright Club is the platform that transforms researchers into stand-up comedians and has been doing this for 10 years across the UK – it’s about having fun and audience participation! So come along enjoy the relaxed atmosphere, have a laugh and learn all about the latest research being undertaken at the University of Aberdeen. Age Suitability: 18+

Date: Thursday 26th September 2019
Time: 20.30
Cost: Free
Venue: Breakneck Comedy Club, 22-24 King St, Aberdeen AB24 5AX

Venue Locations - See page 31
In a world where technology is ever changing come and hear how the University is working with partners from NHS Grampian and Industry to create a secure platform to facilitate the use of Artificial Intelligence (AI) as Diagnostic Tools in a Health Care environment.

Date: Friday 27th September
Time: 18.00 – 19.15
Cost: Free
Venue: Kino Bar, Belmont Filmhouse, 49 Belmont Street, Aberdeen, AB10 1JS

Presented by Katie Wilde, Digital Research Services Manager, University of Aberdeen

Science of Champagne

With Adrian Gomes, 10 Dollar Shake

Adrian Gomes of 10 Dollar Shake (www.10dollarshake.com) guides you through a tutored tasting of Champagne, discussing production techniques such as the essential secondary fermentation along with food pairing suggestions. As the fizz is nosed and tasted, Adrian will discuss the specific characteristics of each Champagne variety – the grape blend, dosage, aging and vintage. We will taste five Champagnes – Brut, Blanc de Blanc, Blanc de Noir, Rose and Demi-Sec. Age Suitability: 18+

Date: Friday 27th September
Time: 18.30
Cost: £30 (no concessions)
Venue: The Tippling House, 4 Belmont Street, Aberdeen, AB10 1JE

Presented by Simon Watt

The Ugly Animal Show: Weird Life Underwater

From fish that use sickening slime as defence to sea cucumbers that fight with their bum, our seas are full of some of the strangest animals in the world. Join biologist and presenter Simon Watt to hear how to help these creatures and our planet survive.

Date: Friday 27th September 2019
Time: 18.30
Cost: £4, £3 concession
Venue: Fraser Noble Building, University of Aberdeen, AB24 3UE

Aberdeen Harbour Expansion Project Visitor Centre Tour

Dragados UK, principal contractor for the Aberdeen Harbour Expansion Project, are delighted to join TechFest 2019 by opening the doors of our project Visitor Centre. The Visitor Centre affords the general public the opportunity to gain an insight into one of the most ambitious marine engineering projects in Scotland for many decades. You will be able to learn about the background of the development, the different construction activities underway, the environmental protection measures being deployed, and some of the history of the area. Furthermore, the Visitor Centre offers the opportunity to see real-time works from a privileged position. Tours for up to 30 people every hour.

Date: Saturday 28th September 2019
Time: Visitor Centre open 10am – 3pm, Tours starting at 10am, 11am, 12pm, 1pm and 2pm.
Cost: Free
Venue: AHEP Visitor Centre, Walker Park, Aberdeen, AB11 8QX

#madeinaberdeen
Visit The Suttie Arts Space in Aberdeen Royal Infirmary to explore the world of Mark-1, the world’s first whole body MRI scanner which is on permanent display along with an accompanying 20 minute film detailing its development and achievements. Mark-1 was developed and built in Aberdeen during the 1970’s. It was used in 1980 to diagnose over 1000 patients.

Date: Permanent Display  
Time: Accessible 24 hours per day  
Cost: Free  
Venue: The Suttie Arts Space, Aberdeen Royal Infirmary, Foresterhill, Aberdeen AB25 2ZN

Fireworks: Real Science or Just Bangs?

Composer and sound artist, Pete Stollery, will run a session where participants will make recordings of words and phrases in Doric, provided by members of the public, and then, working with computers, will turn these into a sound picture which will be presented at the end of the day.

Date: Saturday 28th September 2019  
Time: 14.30  
Venue: Arts Lecture Theatre, 569 King St, University of Aberdeen, AB24 5SU  
Cost: £4 / £3 concession

Across the Grain Festival in collaboration with Aberdeenshire Council

Matthew Tosh introduces you to his magical and explosive world of pyrotechnic science. Find out about the STEM (Science, Technology, Engineering and Mathematics) behind fireworks, and see how he creates colours, sound effects and perfectly timed bursts to music. Featuring shock waves, forces, energy pathways, electricity, fire, sparks, smoke and more. Go behind the scenes with Matthew as he unpicks the building blocks of modern-day firework displays. This is an exciting and demonstration-filled show which is guaranteed to have you on the edge of your seat.

Date: Sunday 6th October 2019  
Time: 12.00 – 16.00  
Cost: TBC  
Venue: Alford Community Campus, Greystone Road, Alford, AB33 8UR

STEM through the Ages

History is all around us but have you ever considered how Science, Technology, Engineering and Maths have impacted on the ancient world? Investigate the challenges that civilisations overcame to make their environments safer. Discover how they were able to navigate incredible distances successfully and learn how to do it yourself.

Date: Sunday 6th October 2019  
Time: 12.00 – 16.00  
Cost: TBC  
Venue: Alford Community Campus, Greystone Road, Alford, AB33 8UR

www.techfest.org.uk
Did you know?

The oceans cover over 70% of our planet. We are all dependent on them for food, transport and vital resources. They affect our weather and even our future as a species. Yet most of us are unaware of the cutting-edge developments in underwater technology, or the science it is based on, largely because it is hidden from view.

SUT looks forward to welcoming schools to this exciting annual event aimed at P7 school children to learn more about the career opportunities that our oceans have to offer. Each session will include a structured mix of audio-visual presentations by leading industry experts from a range of underwater science and technology backgrounds.

Seashore to Sea Floor presented by Macduff Marine Aquarium

Remotely Operated Vehicles (ROV’s) presented by ROVOP & school pupils who participated in the ROV MATE competition

Saturation Diving presented by David Smith

The event is free to attend but places must be booked in advance by contacting: SUT Events, Enterprise Centre, Exploration Drive, Bridge of Don Aberdeen AB23 8GX

01224 823 637  events@sut.org  www.sut.org

Thank you to Apache for sponsoring the Christmas Advent calendars.

Reasonable transport costs will be refunded. Register early to secure your place.
BOOKBUG SESSIONS
TechFest 2019

It’s never too early to develop a passion for stories, songs and science! TechFest is delighted to bring a special twist to these fantastic sessions in partnership with Aberdeen City Libraries, Aberdeenshire Libraries and Scottish Book Trust. For further details please contact your local library.

### Bookbug sessions in Aberdeen City Libraries during September

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<tr>
<th>LOCATION</th>
<th>DAY</th>
<th>TIME</th>
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<tr>
<td>Kincorth Library</td>
<td>Mon Sept 02</td>
<td>14.15 – 14.45</td>
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<td>Northfield Library</td>
<td>Mon Sept 02</td>
<td>14.15 – 14.45</td>
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<td>Central Children’s Library*</td>
<td>Tue Sept 03</td>
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<td>Kaims Library</td>
<td>Thur Sept 05</td>
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<td>Bucksburn Library</td>
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<td>Cove Library</td>
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<td>Cults Library</td>
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<td>Ferryhill Library*</td>
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<td>Bridge of Don Library*</td>
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<td>Woodside Library</td>
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<td>Airyhall Library*</td>
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<td>Mastnick Library</td>
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### Bookbug sessions in Aberdeenshire Libraries during September

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<td>Meldrum Library (T)</td>
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<td>Ellon Library</td>
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<td>Turriff Library</td>
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<td>Kemnay Library</td>
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<td>Macduff Library</td>
<td>Tue Sept 03</td>
<td>14.30 –15.00</td>
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<td>Banff Church Hall (with Makaton Session)</td>
<td>Tue Sept 03</td>
<td>10.30 -11.00</td>
</tr>
<tr>
<td>Mearns Community Library</td>
<td>Wed Sept 04</td>
<td>10.30 -11.00</td>
</tr>
<tr>
<td>Alford Library</td>
<td>Wed Sept 04</td>
<td>14.00 –14.30</td>
</tr>
<tr>
<td>Aboyne Library</td>
<td>Tue Sept 10</td>
<td>10.30 -11.00</td>
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<tr>
<td>Bracadene Library</td>
<td>Tue Sept 10</td>
<td>11.00 -11.30</td>
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<tr>
<td>Alford Library</td>
<td>Wed Sept 11</td>
<td>09.30 - 10.00</td>
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<tr>
<td>Stonehaven Library</td>
<td>Wed Sept 11</td>
<td>10.30 -11.00</td>
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<tr>
<td>New Pitsligo Library</td>
<td>Thur Sept 12</td>
<td>10.00 -10.30</td>
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<tr>
<td>Kintore Library</td>
<td>Fri Sept 13</td>
<td>14.00 -14.30</td>
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<tr>
<td>Stonehaven Library</td>
<td>Fri Sept 13</td>
<td>11.00 -11.30</td>
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<tr>
<td>Turriff Library</td>
<td>Sat Sept 14</td>
<td>11.00 -11.30</td>
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<tr>
<td>Banff Library (with Makaton Session)</td>
<td>Sat Sept 14</td>
<td>11.00 -11.30</td>
</tr>
<tr>
<td>Westhill Library (Story and Song Session)</td>
<td>Sat Sept 14</td>
<td>10.30 -11.00</td>
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<tr>
<td>Turriff Library</td>
<td>Mon Sept 16</td>
<td>14.00 -14.30</td>
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<tr>
<td>Macduff Library</td>
<td>Tue Sept 17</td>
<td>14.30 –15.00</td>
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<tr>
<td>Stonehaven Library</td>
<td>Wed Sept 18</td>
<td>10.30 -11.00</td>
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<tr>
<td>Banchory Library (T)</td>
<td>Fri Sept 20</td>
<td>10.00 -10.30</td>
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<tr>
<td>Stonehaven Library</td>
<td>Fri Sept 20</td>
<td>11.00 -11.30</td>
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<tr>
<td>Fraserburgh Library</td>
<td>Saturday Sept 21</td>
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<tr>
<td>Macduff Library</td>
<td>Saturday Sept 21</td>
<td>10.30 -11.00</td>
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<tr>
<td>Banchory Library (A)</td>
<td>Saturday Sept 21</td>
<td>10.00 -10.30</td>
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<tr>
<td>Kintore Library</td>
<td>Tue Sept 24</td>
<td>14.00 -14.30</td>
</tr>
<tr>
<td>Banchory Library (B)</td>
<td>Thur Sept 26</td>
<td>10.30 -11.00</td>
</tr>
</tbody>
</table>

*Booking Required | (B) Baby Session | (T) Toddler Session | (A) All Ages

www.techfest.org.uk
UPCOMING EVENTS

The Royal Institution’s Mathematics Masterclasses 2019/20

TechFest is delighted to announce the new series of Royal Institution Mathematics Masterclasses. Organised by TechFest, with support from the Royal Institution, this series is available to S1 – S3 pupils from Aberdeen, Aberdeenshire and the neighbouring areas.

The Masterclass series is an excellent opportunity for keen mathematicians to meet with other like-minded students. Exploring a variety of different mathematical topics in a hands-on manner, these Masterclasses are delivered by enthusiastic speakers from industry, academia and education. Although primarily aimed at S2 pupils, eager S1 and S3 pupils are also welcome.

This series consists of Masterclasses held on Saturday mornings at Aberdeen City Centre venues.

CREST Awards

The CREST Awards scheme is the British Science Association’s flagship programme for young people. It is the only nationally recognised accreditation scheme for STEM project work (science, technology, engineering and mathematics) subjects, providing science enrichment activities to inspire and engage 5-to-19-year olds.

- CREST is delivered by educators (teachers, technicians, club leaders, home educators etc.)
- CREST can be run in schools, clubs, youth groups, other organisations or at home.

In addition to giving young people the opportunity to undertake hands-on science, CREST Awards also build skills that are transferrable to other subjects, further education and future employment (time management, project management, teamwork, communication).

You can use CREST to enhance your personal statement on your UCAS form.

To find out about doing CREST in Scotland, visit the TechFest website at www.techfestsetpoint.org.uk/crest or email marthagavan@techfest.org.uk.

Explorathon

Explorathon is Scotland’s version of a rock and roll research weekender where Aberdeen’s researchers meet the public at events dedicated to bringing the region’s most exciting research out into venues and onto streets across the City.

Research and what it discovers plays a huge part in everyone’s daily lives and Explorathon showcases the diversity of research taking place on our doorstep and what impact it can have on our daily lives.

Over the weekend of September 27, 28 and 29 researchers working on new ideas around health, social science and the natural environment will host a series of fun events such as a comedy night, talks, workshops, films and discussions everywhere from shopping centres to pubs, museums to cinemas.

Join us to explore, learn and talk with the researchers behind some of Scotland’s most cutting-edge new research ideas.

For more details: www.explorathon.co.uk

Heroes of Tomorrow

An exciting event for S1 & S2 pupils Tuesday 21st, Wednesday 22nd & Thursday 23rd January 2020 at Robert Gordon University, Garthdee Campus, Aberdeen.

During the day pupils will be able to speak to Industry Professionals, participate in hands on workshops, experiments and demonstrations from a range of organizations including Robert Gordon University and Equinor.

For more information please contact Laura McHardie at TechFest lauramchardie@techfest.org.uk
TECHFEST 2019
CAREER GUIDE

Astronomy and Space
- Rocks, Stars and Rockstar Rockets: Constellation Making, Handling Rocks from Space and Rocket Engineering Challenge
- From Charles Piazzi Smyth to Scottish Spaceport: 200 years of reaching for the stars.

Biography and the Environment
- How to Speak Gorilla
- Advances in antibacterial and antifungal medicines – tackling antimicrobial resistance
- Cruickshank Botanic Garden Tour
- Dolphins at the Battery: Aberdeen’s Circular Showcase
- Aberdeen Harbour Expansion Project Visitor Centre Tour
- The Ugly Animal Show: Weird Life Underwater

Chemistry
- FIERCE Beer Brewery Tour
- Science of Champagne
- Fireworks: Real Science or Just Bangs?

Computing Science
- Foxdog Studios: Tomorrow’s Office
- Code the City mini-workshop
- Troll Hunting: Recognising and coping with cyberbullying

Design and Technology
- Foxdog Studios: Tomorrow’s Office
- Subsea Technology – Totally Technical
- Innovation at RGU – Stories from the University Start-up Entrepreneurs
- HYPED
- Troll Hunting: Recognising and coping with cyberbullying
- Mark 1 – MRI Scanner Exhibition

Engineering
- Subsea Technology – Totally Technical
- From Charles Piazzi Smyth to Scottish Spaceport: 200 years of reaching for the stars.
- Aberdeen Harbour Expansion Project Visitor Centre Tour

Food and Drink
- FIERCE Beer Brewery Tour
- Science of Champagne

Geography
- From Ink on Paper to 3D virtual mapping: A Life in Cartography

Health
- Advances in antibacterial and antifungal medicines – tackling antimicrobial resistance
- Social communication across the generations
- How to win the battle with Insomnia
- Medication can be harmful! What can I do to reduce the harm from taking medicine?
- Fullerenes, Nanotubes and Nobel Prizes – the discovery of Buckminsterfullerene: can C60 Prolong Your Life?
- Troll Hunting: Recognising and coping with cyberbullying
- Mark 1 – MRI Scanner Exhibition

Media and Entertainment
- New Music Workshop on Microtonality
- New Music for Microtonal Trumpets and malletKat
- Hollywood Science
- Superhero Science
- Troll Hunting: Recognising and coping with cyberbullying
- Bright Club
- Fireworks: Real Science or Just Bangs?

Physics
- HYPED
- Fireworks: Real Science or Just Bangs?
- New Music Workshop on Microtonality
- New Music for Microtonal Trumpets and malletKat

Research
- Tomorrow’s Doctors: Medical Students Leading Cutting-Edge Research
- Social communication across the generations
- How to win the battle with Insomnia
- Medication can be harmful! What can I do to reduce the harm from taking medicine?
- Fullerenes, Nanotubes and Nobel Prizes – the discovery of Buckminsterfullerene: can C60 Prolong Your Life?

STEM Careers
- Fireworks: Real Science or Just Bangs?
- Hollywood Science
- Superhero Science
- How to Speak Gorilla
- The Ugly Animal Show: Weird Life Underwater
**TECHFEST 2019**

**FESTIVAL CALENDAR**

### August

**24.8.19 (SATURDAY)**
Activity Weekend
Sir Ian Wood Building, Robert Gordon University, Garthdee Campus, AB10 7GJ

**25.8.19 (SUNDAY)**
Activity Weekend
Sir Ian Wood Building, Robert Gordon University, Garthdee Campus, AB10 7GJ

**31.8.19 (SATURDAY)**
Eureka Day
Aden Country Park, Mintlaw, AB42 5FQ

### September

**1.9.19 (SUNDAY)**
Eureka Day
The Bettridge Centre, Greystone Place, Newtonhill, AB39 3UL

**7.9.19 (SATURDAY)**
Doors Open Day with TechFest
Institute of Medical Science, Ashgrove Road West, AB25 2ZZ

**14.09.19 (SATURDAY)**
How to Speak Gorilla
Fraser Noble Building, University of Aberdeen, AB24 3UE

**16.9.19 (MONDAY)**
Advances in antibacterial and antifungal medicines - tackling antimicrobial resistance
Fraser Noble Building, University of Aberdeen, AB24 3UE

**17.9.19 (TUESDAY)**
Cruckshank Botanic Garden Tour
Cruckshank Botanic Garden, St Machar Drive, AB24 2TY

**17.9.19 (TUESDAY)**
Tomorrow’s Doctors: Medical Students Leading Cutting Edge Research
Fraser Noble Building, University of Aberdeen, AB24 3UE

**17.9.19 (TUESDAY)**
From Ink on Paper to 3D virtual mapping: A Life in Cartography
Fraser Noble Building, University of Aberdeen, AB24 3UE

**18.9.19 (WEDNESDAY)**
Subsea Technology – Totally Technical
Fraser Noble Building, University of Aberdeen, AB24 3UE

**19.9.19 (THURSDAY)**
Social Communication across the Ages
Fraser Noble Building, University of Aberdeen, AB24 3UE

**19.9.19 (THURSDAY)**
How to win the battle with Insomnia
Fraser Noble Building, University of Aberdeen, AB24 3UE

**21.9.19 (SATURDAY)**
Science and the City Tour
Meeting point outside Marischal College main entrance, Broad Street, Aberdeen, AB10 1AB

**21.9.19 (SATURDAY)**
Rocks, Stars and Rockstar Rockets: Constellation Making, Handling Rocks from Space and Rocket Engineering Challenge
Sir Duncan Rice Library, University of Aberdeen, AB24 3AA

**21.9.19 (SATURDAY)**
New Music Workshop on Microtonality
Butchart Centre, University Road, Aberdeen, AB24 3JT

**21.9.19 (SATURDAY)**
New Music for Microtonal Trumpets and malletKat
Butchart Centre, University Road, Aberdeen, AB24 3JT

**23.9.19 (SATURDAY)**
Innovation at RGU – Stories from University Start-up Entrepreneurs
ONE Tech Hub, Schoolhill, Aberdeen, AB10 1FR

**23.9.19 (SATURDAY)**
HYPED
ONE Tech Hub, Schoolhill, Aberdeen, AB10 1FR

**24.09.19 (TUESDAY)**
Hollywood Science
Fraser Noble Building, University of Aberdeen, AB24 3UE

**24.09.19 (TUESDAY)**
Medication can be harmful! What can I do to reduce the harm from taking medicine?
Fraser Noble Building, University of Aberdeen, AB24 3UE

**24.09.19 (TUESDAY)**
Fullerenes, Nanotubes and Nobel Prizes – the discovery of Buckminsterfullerene: can C60 Prolong Your Life?
Fraser Noble Building, University of Aberdeen, AB24 3UE

**25.9.19 (WEDNESDAY)**
FIERCE Beer Brewery Tour
Fierce Brewery, Unit 49, 46 Howe Moss Avenue, Dyce, AB21 0GP

**25.9.19 (WEDNESDAY)**
Superhero Science
Fraser Noble Building, University of Aberdeen, AB24 3UE

**25.9.19 (WEDNESDAY)**
Troll Hunting: Recognising and coping with cyberbullying
Fraser Noble Building, University of Aberdeen, AB24 3UE

**26.9.19 (THURSDAY)**
Code the City mini-workshop
ONE Tech Hub, Schoolhill, Aberdeen, AB10 1FR

**26.9.19 (THURSDAY)**
Dolphins at the Battery: Aberdeen’s Circular Showcase
Fraser Noble Building, University of Aberdeen, AB24 3UE

**26.9.19 (THURSDAY)**
Bright Club
Breakneck Comedy Club, 22–24 King St, Aberdeen, AB24 5AX

**27.9.19 (FRIDAY)**
The Ugly Animal Show: Weird Life Underwater
Fraser Noble Building, University of Aberdeen, AB24 3UE

**27.9.19 (FRIDAY)**
Science of Champagne
The Tippling House, 4 Belmont Street, Aberdeen, AB10 1JE

**28.9.19 (SATURDAY)**
Aberdeen Harbour Expansion Project Visitor Centre Tour
AHEP Visitor Centre, Walker Park, Aberdeen, AB11 8QX

**28.9.19 (SATURDAY)**
Fireworks: Real Science or Just Bangs?
Arts Lecture Theatre, 569 King St, University of Aberdeen, AB24 5SU

**28.9.19 (SATURDAY)**
Across the Grain Festival
Alford Community Campus, Greystone Rd, Alford AB33 8UR

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For more information, visit [TechFest.org.uk](http://www.techfest.org.uk)
TECHFEST 2019

BOOKING INFORMATION

Tickets for all events at TechFest are available from the Eventbrite website unless specified in the programme entry.

How to Book Tickets

1. **Online**, tickets are available at [www.eventbrite.co.uk](http://www.eventbrite.co.uk)

2. **At the venue**, Tickets for an event MAY also be available at the venue immediately prior to the event.

Please note: All prices are inclusive of VAT and booking fee. Any tickets purchased at the venue will be cash payment only.

Wheelchair Accessibility

Any wheelchair users booking tickets should let the booking administrator know to ensure suitable seats are reserved where possible.

Concessions

Unless otherwise stated, those eligible for concessionary rates are: Senior citizens, registered unemployed, full-time students, registered disabled and under 18s. Under 3’s are free for all events.

Cancellations

Please note that TechFest has a no refund or exchange policy, unless the event is cancelled.

Video & Audio Recording

The recording of video and audio is not permitted during any of the events.

Mobile Phones

Please ensure all mobile phones are on silent during performances.

Disclaimer

All details of events in this programme are correct at time of going to print. TechFest reserves the right to alter or cancel programme information without prior notice. Any changes will be posted on the TechFest website. The views of presenters are their own and are not necessarily endorsed by TechFest, their Sponsors or Supporters.

Contact

TechFest, Butchart Centre, University of Aberdeen, University Road, Aberdeen, AB24 3UT

T: 01224 274348 | E: enquiries@techfest.org.uk

W: [www.techfest.org.uk](http://www.techfest.org.uk)

Scottish Charity Number: SC010349
TECHFEST 2019
VENUE LOCATIONS

Aberdeen City Venues

AHEP VISITOR CENTRE
Walker Park, Aberdeen, AB11 8QX

ARTS LECTURE THEATRE
569 King St, University of Aberdeen, Aberdeen, AB24 5SU

BELMONT FILMHOUSE
49 Belmont Street, Aberdeen, AB10 1JS

BREAKNECK COMEDY CLUB
22-24 King Street, Aberdeen, AB24 5AX

BUTCHART CENTRE
University Road, Aberdeen, AB24 3UT

CRUICKSHANK BOTANIC GARDEN
St Machar Drive, Old Aberdeen, AB24 2TY

FIERCE BEER BREWERY
Unit 49, 46 Howe Moss Avenue, Dyce, Aberdeen, AB21 0GP

FRASER NOBLE BUILDING
University of Aberdeen, Aberdeen, AB24 3UE

INSTITUTE OF MEDICAL SCIENCE
Ashgrove Road West, Aberdeen, AB25 2ZD

MACROBERT HALL
Robert Gordon’s College, Schoolhill, Aberdeen, AB10 1FE

MARISCAL COLLEGE (MAIN ENTRANCE)
Broad Street, Aberdeen, AB10 1AB

ONE TECH HUB
Schoolhill, Aberdeen, AB10 1FR

SIR DUNCAN RICE LIBRARY
University of Aberdeen, AB24 3AA

SIR IAN WOOD BUILDING
Robert Gordon University, Garthdee Campus, AB10 7GJ

THE BETTRIDGE CENTRE
Greystone Place, Newtonhill, AB39 3UL

THE SUTTIE ARTS CENTRE
Aberdeen Royal Infirmary, Foresterhill, Aberdeen, AB25 2ZD

THE SUTTIE CENTRE
Foresterhill Rd, Foresterhill, Aberdeen, AB25 2ZD

THE TIPPLING HOUSE
4 Belmont Street, Aberdeen, AB10 1JE

ZOOGOLOGY BUILDING
University of Aberdeen, Tillydrone Avenue, Aberdeen, AB24 2TZ

Aberdeenshire Venues

ADEN COUNTRY PARK
Station Road, Mintlaw, Peterhead, Aberdeenshire, AB42 5FQ

ALFORD COMMUNITY CAMPUS
Greystone Road, Alford AB33 8UR

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Dr Amy Irwin Dr Ceri Trevethan Dr Emma Hepburn Dr Michael Wood Dr Olga Runcie Dragados Duthie Park Ranger Service Fierce Brewery Grampian Hospitals Art Trust Glasgow Science Centre GPlStickets Greyhope Bay Ltd Home Energy Scotland Hyped Innovation Hub, RGU Institute of Civil Engineers, Aberdeen Branch JNCC NHS Grampian Novabiotics ONE Tech Hub Prof Louise Phillips

Public Engagement with Research Unit, University of Aberdeen ROE Rona Main and Sandra Cook RSPB Saving Scotland’s Red Squirrels Scot Free Tours SEPA Scottish Wildlife Trust Sound SUT TaufRx Therapeutics The Bettridge Centre University of Aberdeen Paediatric Society University of Edinburgh University of Sussex Zoology Museum, University of Aberdeen

TechFest is kindly hosted by the University of Aberdeen

CONTACT US

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