The University of Birmingham’s Arts & Science Festival is back for its sixth edition. Running 12-18 March 2018, the festival celebrates research, culture and collaboration across campus and beyond. Join leading artists and academics as they respond to this year’s theme ‘Stop Start!’ and enjoy a diverse programme exploring life, death, time, movement, migration, attitudes, behaviours and a whole lot more...

Festival talks introduce an array of topics: ever wanted to learn about the oldest known advanced scientific instrument (p.38)? Or the geological impact of volcanic eruptions (p.43)? Enter the world of digital dinosaurs at the Lapworth (p.41); and unearth creepy crawlies of the 1600s through the Barber collection (p.40).

If you’re keen to get stuck in, workshops invite you to experiment with visualisation and mark-making (p.50); to play with the technologies that are helping to reshape art and its production (p.54); and to increase your flexibility and reduce sedentariness through chair-based exercise (p.49).

Get moving and explore campus with SOUNDwalker, a series of guided walks designed to tune participants in to hidden audio worlds (pp.46–47). For family fun, join heroine Oolik on an extraordinary journey into a dazzling Arctic world as part of ‘Where’s My Igloo Gone?’ an immersive performance presented by The Bone Ensemble (p.23).

Arts & Science Festival returns to the Electric Cinema with sci-fi thrillers Timecrimes (2007) and Flatliners (1990) introduced by University of Birmingham academics, as well as the hilarious Trash Film Night, featuring the brilliantly terrible film Hard Ticket to Hawaii (pp.30–31). Other screening highlights include an evening with Flatpack Film Festival, on campus for one night only with a collection of stop motion shorts curated for the festival (p.29). We’re also delighted to present a screening of award winning documentary Unrest (2017), which charts the journey of twenty-eight year-old Jennifer Brea who upon being diagnosed with ME (commonly known as chronic fatigue syndrome) turns the camera on herself and discovers a hidden world of millions confined to their homes and bedrooms (pp.26–27).

There’s plenty to explore on campus in between events; exhibitions reveal connections between the world of the artist and physicist (pp.12–13), between anatomy and art (p.17). Also on campus is Black Country Lungs, a unique collaboration between community arts company Multistory, Dutch photographer Corinne Noordenbos, and people with Chronic Obstructive Pulmonary Disease (p.14–15).

Arts & Science Festival explores art, science and the spaces between. View the full programme at www.artsandsciencefestival.co.uk

Unless otherwise stated, please visit www.boxoffice.bham.ac.uk or telephone the Box Office on 0121 414 4414 to book festival events. Please note tickets are subject to a £1.25 booking fee.
FINAL YEAR RECALITLISTS

Monday 12 March, 12.00–13.45
Thursday 15 March, 12.00–13.45
Bramall Music Building,
Dome Room R12
Free

Final year recitalists perform a selection of music in preparation for their end-of-year performance assessments in the Summer Term.

Monday 12 March
Tristan O’Leary – Clarinet
Man Him Chan – Piano
Christina Perrin – Trumpet
Heather Rose – Clarinet

Thursday 15 March
Lauren O’Brien – Voice
Katherine Noble – Percussion
Rhiannon Crompton – Piano
Eleanor Turner – Oboe

GARNIER ORGAN RECITAL: NATHAN LAUBE

Tuesday 13 March, 17.15–18.15
Bramall Music Building,
Elgar Concert Hall R12
£6 / £4.50 conc (incl booking fee)
Available at thebramall.co.uk

A recital from one of the world’s most respected concert organists, Nathan Laube. Nathan’s international performances include Vienna Konzerthaus, the Berlin Philharmonie and the Sejong Center. In addition to his busy performing schedule, Nathan is Assistant Professor of Organ at The Eastman School of Music in Rochester, New York, and gives this recital following a masterclass with organ students at the Royal Birmingham Conservatoire.

Muffat: Toccata Septima from Apparatus Musico-Organisticus
Storace: Ciaconna from Selva di varie compositioni
J S Bach: Passacaglia, BWV 582
Haydn: Sonata VII from The Seven Last Words of Christ on the Cross
Mendelssohn: Sonata in F minor, Op. 65, No. 1
BARBER EVENING CONCERT
FRETWORK: FOR FOUR
Asako Morikawa, Emily Ashton, Sam Stadlen and Richard Boothby – Viols

Wednesday 14 March, 19.30–21.30
The Barber Institute of Fine Arts, Concert Hall R14
£18 / £15 conc / £12 Barber Association / £5 Students & U18s

Winner of the 2017 Royal Philharmonic Society ‘Chamber Music and Song’ prize, Fretwork return to the Barber Institute with their programme, For Four, presenting renaissance and baroque quartets from England, France, Germany and Italy. In the 25 years since their formation, they have performed all over the world and their recordings of the classic English viol repertory have become the benchmark by which all others are judged.

Matthew Locke: Consort of Four parts No. 2 in D
Henry Purcell: Two Fantasias in 4 parts
Etienne Moulinié: Fantasie pour les violes
John Jenkins: 2 Fantazias in 4 parts
Robert Parsons: Ut re mi
Alfonso Ferrabosco: Pasacaglia
John Bull: Ut re mi
Giovanna Legrenzi: Sonata sesta
Alfonso Ferrabosco: Hexachord Fantasy
J S Bach: Passacaglia BWV582

BARBER LUNCHTIME CONCERT
PRINCE REGENT’S BAND
Fraser Tannock – Cornet/trumpet
Richard Thomas – Cornet/trumpet
Anneke Scott – Althorn/horn
Phil Dale – Tenor horn/baritone/trombone
Jeff Miller – Bass tuba/trombone

Friday 16 March, 13.10–14.00
The Barber Institute of Fine Arts, Concert Hall R14
Free

The Prince Regent’s Band join us following the launch of their new disc ‘Russian Revolutionaries’ with a performance of repertoire from composers associated with Tsar Alexander III, himself an amateur brass player. The Band perform on a collection of early 20th century instruments including French cornets and Russian/German-style alto and tenor horns, creating a vastly different sound world to that of a modern brass quintet.

Böhme: Prelude and Fugues No. 1, Op. 28
Ewald: Brass Quintet No. 2, Op. 6
MUSIC SOCIETY: CHAMBER CHOIRS & BRASS BAND

Stuart Birnie – Brass Band conductor
Elliot Mercer, Emma Warren – Chamber Choir conductors

Friday 16 March, 19.30–21.30
Bramall Music Building, Elgar Concert Hall ♬ R12
£10 / £8 conc / £3 Students & U18s

The Music Society’s Chamber Choirs and Brass Band give their spring term concert, including music from the Brass Band’s entry to the 2018 UniBrass competition in February. The brass band and the two chamber choirs, female and mixed voices, draw singers and musicians from across the University, studying all subjects, from first years to PhD students.

Programme includes:
- T J Powell: March, Castell Coch
- Paul Lovatt Cooper: Wall of Sound
- Rameau: La Nuit
- Sullivan: The Long Day Closes
- Saint Saens, arr. Philip Wilby: Finale from Organ Symphony

BIRMINGHAM UNIVERSITY SINGERS WITH CBSO

Mirga Gražinytė-Tyla – Conductor

Saturday 17 March, 19.00–21.30
Symphony Hall, Broad Street, B1 2EA ♬ £25 / £6 U17s (incl booking fee).
Available from thsh.co.uk or by calling 0121 780 3333

Mirga Gražinytė-Tyla launches City of Birmingham Symphony Orchestra’s Debussy centenary celebration with a concert devoted to the composer, his followers and his influences, beginning with the piece that changed everything: the exquisite Prélude à l’après-midi d’un faune.

Birmingham University Singers join the CBSO as guest choir to perform Debussy’s Trois chansons de Charles d’Orléans.

Debussy: Prélude à l’après-midi d’un faune
Debussy: Trois chansons de Charles d’Orléans
Szymanowski: Love songs of Hafiz Nos. 5, 7 and 8
Debussy: La demoiselle élue
Debussy: Nocturnes
Wagner: Prelude and Liebestod from Tristan and Isolde
**MUSIC SOCIETY: PHILHARMONIC ORCHESTRA**

Daniele Rosina – Conductor  
Xenia Pestova – Piano

Sunday 18 March, 15.00–17.00  
Bramall Music Building, Elgar Concert Hall  
Map: R12  
£10 / £8 conc / £3 Students & U18s

The Philharmonic Orchestra are joined by one of the UK’s leading contemporary pianists, Xenia Pestova to give the world premiere of Daria Kwiatkowska’s Piano Concerto. The concert opens with Britten’s orchestra suite from his 1945 opera, *Peter Grimes*, and concludes with Sibelius’s first symphony.

**Britten:** Four Sea Interludes from *Peter Grimes*  
**Daria Kwiatkowska:** Piano Concerto (World Premiere)  
**Sibelius:** Symphony No. 1, Op. 39 in E minor
THE SKETCHBOOK AND THE COLLIDER

Monday 12 – Friday 16 March, Exhibition continues to 4 May
09.00–18.00 daily
Aston Webb Building, Rotunda Gallery (First Floor) R6
Free, no booking required

Exploring connections between the world of the artist and the particle physicist, this exhibition features new work by Ian Andrews, Artist-in-Residence at Research and Cultural Collections.

Andrews compares the sketchbook and the collider as places where different elements are brought together in active processes.

Both artist and physicist ask: can we better understand the world around us by examining the visible traces of hidden interactions?

Presented by Research and Cultural Collections

THE SKETCHBOOK AND THE COLLIDER
MEET THE ARTIST

Monday 12 March, 10.00–16.00
Aston Webb Building, Rotunda Gallery (First Floor) R6
Free, no booking required

Artist-in-residence, Ian Andrews, and particle physicist, Kostas Nikolopoulos, invite you to view and discuss a series of hand-drawn artists’ books created with water based-ink on tissue paper.

Using the sketchbook format, Andrews attempts to draw reference to events in the quantum world through contrast and collision. Are there visible traces of hidden interactions? Have they changed the way we understand the world around us?

Explore the connections between the world of the artist and the physicist at this drop-in session.

Presented by the School of Physics and Astronomy in partnership with Ian Andrews.

RELATED EVENTS

• A unique performance at mac birmingham considering the connections between art and particle physics research. See page 21 for details.
• Experiment with visualisation and mark-making to explore the intriguing connections between art and science. See page 50 for details.
BLACK COUNTRY LUNGS

Please see Arts & Science Festival website for dates, opening hours and venue.

Free, no booking required.

Black Country Lungs is a unique collaboration between Multistory, Dutch photographer Corinne Noordenbos, and people with Chronic Obstructive Pulmonary Disease (COPD).

Corinne has a long standing interest in exploring the human condition by photographing health issues, often with a personal starting point – her Alzheimer’s series was made after her mother was diagnosed with the disease. For her first UK commission, Corinne worked with Multistory between June 2015 and May 2017 researching, observing, recording, meeting and photographing people in hospital and at home. This is an early opportunity to see the finished work.

Multistory is a community arts company based in Sandwell in the Black Country. Multistory invites artists to make art with, for and about local people in response to their lives and experiences. This project explores the connection between the Black Country and ‘black lungs’.

Presented by Multistory in partnership with Research & Cultural Collections.

GUIDED TOUR

Tuesday 13 March
13.00–14.00
Meet at Old Joe Clock Tower, Chancellor’s Court
Free, booking recommended

Join photographer Corinne Noordenbos and a Black Country Lungs project participant for a guided walking tour and introduction to the exhibition.

IN CONVERSATION

Tuesday 13 March
14.00–15.30
Staff House, Michael Tippet Room (Third Floor) R24
Free, booking recommended

Health – we take it for granted but as soon as we are ill we ask questions. How can I get better? Who is to blame? Could I have avoided it? Join us for a unique opportunity to hear Corinne Noordenbos discuss the Black Country Lungs project followed by a panel discussion exploring what collaborations between artists, researchers and scientists can bring to understanding the human condition.

Panellists include: John Middleton (President, UK Faculty of Health); Peymane Adab (Public Health, University of Birmingham), Becky Sexton (Project Manager, Multistory), Kelly Redden-Rowley (Specialist Respiratory Physiotherapist, Sandwell Community Respiratory Service) and Dr Max Matonhodze (Respiratory Consultant, Walsall Manor Hospital).

Following the discussion there will be tea and coffee and an opportunity to buy a signed copy of Black Country Lungs.
**SLIME CITIES**

Monday 12 – Friday 16 March,
Exhibition continues to 16 April
9.00–17.00 daily
Birmingham Dental Hospital and
School of Dentistry (Foyer),
5 Mill Pool Way, B5 7EG
Free, no booking required

Poor mouth health is linked to many life
threatening diseases such as diabetes,
heart, lung and kidney disease, therefore
greater understanding about what our
mouth microbes are capable of is key to
stopping them causing havoc.

*Slime Cities* is an exhibition exploring
the microbes found in our mouths and
features works by artists Elin Thomas and
Sabine Tötemeyer alongside students and
visitors of Birmingham Dental Hospital and
School of Dentistry.

The exhibition features textile based
works; Elin Thomas creates realistic
microbial installations using crochet and
felt; Sabine Tötemeyer is an avid knitter
of bacteria and regularly displays them in
their own habitats.

*Slime Cities* is presented as part of
the Open Wide, a year-round exhibition
programme of artistic works selected
in response to clinical and scientific
developments.

Presented by the School of Dentistry

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**IMAGES OF RESEARCH**

Monday 12 – Friday 16 March
09.00–17.00 daily
Murray Learning Centre R28
Free, no booking required

How do you sum up your life as a
postgraduate researcher in a single image?
That’s the challenge that we have set
our postgraduate researchers from the
University of Birmingham.

Researchers from disciplines across
the University have shared their stories
and images, demonstrating the breadth
of exciting projects our postgraduates are
working on.

Presented by the University
Graduate School

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**ART AND ANATOMY**

Monday 12 – Friday 16 March
10.00–17.00 daily
Outdoor area in front of Costa,
University Centre R23
Free, no booking required

Throughout history the understanding of
anatomy has been furthered through art
thanks to artists including Leonardo da
Vinci, Andreas Versalius, Jan Steven can
Calcar and Frank Netter amongst others.

This exhibition showcases the creative
talents of students in the Institute of
Clinical Sciences, who have been invited to
interpret this year’s festival theme – Stop
Start! – from an anatomical perspective.

The top ten entries will be on display on the
University’s outdoor screen, located in the
heart of campus. All entries will be available
to view online.

Presented by the Institute of Clinical
Sciences

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**IMAGING IMAGINING**

Monday 12 – Friday 16 March
10.00–17.00 daily
European Research Institute, Foyer G3
Free, no booking required

Join students from Liberal Arts and Natural
Sciences for an exploration of the festival
theme ‘Stop Start!’.

Images, video stills, drawings and paint-
ings engage with a variety of perspectives
and offer an open invitation to stop looking
and start seeing.

Students of the Liberal Arts and Natural
Sciences are well accustomed to offering
alternative views and discovering new
angles and we hope that you will stop
for a moment to engage and enjoy the
propositions offered. Before starting again...

Presented by Dr. Emil Toescu and students
from Liberal Arts and Natural Sciences

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**RELATED EVENTS**

Slime Cities is accompanied by a series
of drop-in participatory workshops. Join
Melissa Grant and Sarah Kuehne and create
your own felt microbes to add to the
installation or to take home!

12.00–14.00 daily during exhibition
Free, no booking required

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**From my mind to your mind: John Layard and Michael Tippett**
Olivia Knops, PhD Music, College of Arts and Law,
University of Birmingham)
**GHOST STREETS OF BALSALL HEATH**

*The Photographs of Janet Mendelsohn*

**Tuesday 13 – Saturday 17 March, Exhibition continues to 28 April**
12.00–17.00 daily
Ort Gallery (First floor), 500–504 Moseley Road, Balsall Heath, B12 9AH
Free, no booking required

Ort Gallery presents an exhibition of photographs of Balsall Heath and Highgate by American academic and documentary filmmaker Janet Mendelsohn.

Using photography as a medium for her social research, Mendelsohn captured life in Balsall Heath and Highgate in the late ‘60s. The images document the sense of community, the multicultural diversity and the social fabric of the area at the time. They offer a window into a neighbourhood that was rapidly transforming, both in population and also physically through large scale ‘slum clearance’; a few years after these images were taken, many of the streets depicted were demolished.

This previously unseen selection will be accompanied by oral histories, archive footage and maps documenting the changing landscape. There will also be the opportunity for visitors to contribute their own personal stories.

**PRESENTED BY** Ort Gallery in partnership with Flatpack Film Festival (13–22 April 2018)

**RELATED EVENTS**

The exhibition launches on Saturday 10 March and there will be a series of additional events, please see ortgallery.co.uk for updated event listings and timings.

**RE-ANIMATION**

**Wednesday 14 March**
19.30–21.00
Old Joe Clock Tower, Chancellor’s Court
Free, no booking required

Digital Projection: ‘The Barber Collective’ are aged 16–21 and meet twice a month to re-interpret The Barber Institute of Fine Art’s collection. Visit Old Joe to see the result of the collective’s artistic re-imaging process, in collaboration with digital artist Antonio Roberts.

**Presented by The Barber Institute of Fine Arts**

**END OF TERM: RADICAL SABBATICAL**

**Thursday 15 March , 12.00–14.00**
Aston Webb Building, Rotunda Gallery (First Floor) R6
Free, booking required

*Radical Sabbatical* is an artist residency programme that has brought together three creative practitioners from Eastside Projects’ ESP Associates Scheme – Emilie Atkinson, Sarah Farmer and Stuart Whipps – with academics from across the University of Birmingham.

The programme is a space for experimentation, knowledge exchange and cross-disciplinary engagement – a place for artists and academics to explore each other’s research and consider how it is produced and conveyed.

The artists were invited to respond to provocations from a range of academics working in the following areas of research: Aging and Repair, Trust and Risk and Waves.

Join the *Radical Sabbatical* artists for their end of term event! Loosely taking the form of a science fair, the event will introduce ideas and work that have been taking shape over the past few months.
THE PARTICLE EVENT

Sunday 11 March, 16.00-17.15
Monday 12 March, 18.00-19.15
Hexagon Theatre, mac Birmingham, Cannon Hill Park, B12 9QH
£5 / £3 students (£10 on the door)
Advance online booking strongly recommended

This event brings into dialogue two works developed in collaboration with the University of Birmingham’s Particle Physics group: Neutrino Passoire, a performance by contemporary dancers Mairi Pardalaki and Fanny Travaglino and musician Katerina Fotinaki; and The Sketchbook and the Collider, a series of moving image works by artist Ian Andrews.

Consider the connections between movement, interaction and the invisible in this three-way conversation combining two art forms and particle physics research.

RELATED EVENTS

Artist Ian Andrews presents an exhibition exploring connections between the world of the artist and the particle physicist. See page 12 for details.

Image courtesy Greg Milner Photography
WHERE’S MY IGLOO GONE?

by The Bone Ensemble
Directed by Adam Ledger
Performed by Jill Dowse and Sam Frankie Fox

Sunday 18 March, 15.00–16.15
Bramall Music Building, Dome Room, 3rd Floor  R12
£8 adults / £5 children or £22 for 2 adults & 2 children.
Advance online booking strongly recommended

Oolik is an ordinary girl who goes on an extraordinary journey... Sitting in her igloo, a drop of water falls on her head. Then another! Is her home melting? Join Oolik as she sets out on a journey to find help. On her way she meets some exciting friends – including YOU!

Journey into a dazzling, Arctic world of soaring snow geese, pet husky dogs and starry nights. And the kind of cold that makes your skin tingle! Travelling through snowstorms, across oceans and into our hearts, Oolik is not the kind of girl to give up on her quest. With enchanting live music, it’s a fun, magical experience for all the family, showing that when we work together, anything can happen!

Where’s My Igloo Gone? is very visual in nature and contains no spoken English so is extremely accessible to d/Deaf, hearing and non-english speaking audiences.

Presented by The Bone Ensemble in partnership with Arts & Science Festival and The Bramall

Images by Pamela Raith Photography
100 YEARS OF WAR IN YEMEN
FILM SCREENING AND PANEL DISCUSSION

Wars don’t just erupt and end, they don’t happen in a vacuum either. This event will highlight the ways in which the current Yemeni conflict is first and foremost a legacy of a series of past wars which started in 1914 and haven’t yet come to an end. From the 1914 Battles with the Ottomans to the rise of Al-Qaeda in the late 1990s, to the outbreak of the civil war in the aftermaths of the 2011 uprisings, and the more recent military intervention by a coalition led by Saudi Arabia, this event will shed light on the history of a decades-long conflict currently resulting in the ‘worst humanitarian crisis’ in the contemporary history of the Middle East and North Africa region.

The event will open with a screening of Emmy award-winning documentary Yemen Under Siege, followed by a panel discussion bringing together Saudi film director Safa al-Ahmad in conversation with UK-based historians with experience working on WWI legacies. The panel will be moderated by Dr Dima Saber, Senior Research Fellow at the Birmingham Centre for Media and Cultural Research at Birmingham City University.

Presented by Dr Dima Saber in partnership with the Voices of War & Peace: AHRC World War One Engagement Centre. Documentary courtesy Safa al-Ahmad and PBS Frontline.

Monday 12 March, 17.30–19.00
Strathcona Building, Lecture Theatre 1 (Ground Floor) R18
Free, booking recommended
UNREST
[dir: Jennifer Brea, 2017, 97 mins]

Monday 12 March, 18.30–20.30
Medical School, Leonard Deacon Lecture Theatre (First Floor) B1
Free, booking recommended

Twenty-eight year-old Jennifer Brea is working on her PhD at Harvard and months away from marrying the love of her life when she gets a mysterious fever that leaves her bedridden and looking for answers. Disbelieved by doctors yet determined to live, she turns her camera on herself and discovers a hidden world of millions confined to their homes and bedrooms by ME, commonly known as chronic fatigue syndrome.

Unrest tells the first-person story of Jennifer and her husband, Omar, newlyweds grappling with how to live in the face of a lifelong illness. But it is also a global story about an international community of patients with a serious, life-altering illness — millions suffering invisibly, ignored by medicine and science because of sexism, ignorance, and bias.

With the lack of medical education or clear treatment guidelines, most doctors find ME difficult to diagnose. Patients spend on average five years seeking a diagnosis. Unrest brings medical providers inside spaces they are rarely able to go — their patients’ homes and bedrooms — for an intimate look at a disease that leaves 25% of patients housebound or bedbound and often unable to even seek medical care. It invites medical providers to reflect how they can best support patients and caregivers grappling with any lifelong illness for which there are no clear answers and to reconnect with the reasons they first chose their healing profession.

Presented by the College of Medical and Dental Sciences in partnership with Screening Rights Film Festival and Arts & Science Festival

Introduction
This screening will be introduced by Dr Michele Aaron, Director of Screening Rights Film Festival, Birmingham’s international festival of social justice film. Screening Rights aims to inspire and develop debate on the potential of film to affect personal, social and political change.
LIFE:MOVING

[dir: Briony Campbell and the participants from John Taylor Hospice, 2017]

Tuesday 13 March, 18.00–20.00
Medical School, Leonard Deacon Lecture Theatre (First Floor) B1

Free, booking recommended

Please be aware that these films are of a sensitive and sometimes explicit nature.

The six Life:Moving films were made in 2017 by participants from John Taylor Hospice (JTH), Erdington as part of a collaborative and interdisciplinary research project led by Michele Aaron, then at the University of Birmingham. The broad aim of the project is to challenge society’s misconceptions about terminal illness by giving those experiencing it the opportunity to tell their own stories, and by bringing these stories to a wider audience.

The films will be introduced by two key members of the Life:Moving team, Michele Aaron, Associate Professor of Film Studies, Warwick, and Jed Jerwood, art psychotherapist at JTH and clinical academic researcher at Coventry University. For more information about the Life:Moving project, visit: lifemoving.org

STOP / START

FILM FESTIVAL

Wednesday 14 March, 18.30–21.00
Aston Webb (Block C), Main Lecture Theatre R7

Free, booking recommended

Don’t miss this one-off event which takes the Arts & Science Festival theme ‘Stop Start!’ as its, well, starting point.

One Minute Movie Competition
Watch entries to the Department of Film and Creative Writing’s annual One Minute Movie competition. This year’s entrants have created films that take inspiration from the A&S festival theme and the competition winner will be announced on the night.

The Breakfast Club
[dir: John Hughes, 1985, 93 mins]
They were five students with nothing in common, faced with spending a Saturday detention together in their high school library. At 7 a.m., they had nothing to say, but by 4 p.m. they had bared their souls to each other and become good friends. To the outside world they were simply the Jock, the Brain, the Criminal, the Princess and the Kook, but to each other, they would always be The Breakfast Club.

Join students from MA Film and Television: Research and Production for an immersive screening of John Hughes’ 80s classic featuring live actors and a free continental breakfast buffet.

Presented by MA Film and Television and B:Film: The Birmingham Centre for Film Studies with support from Flatpack: Assemble.

STOP MOTION SHORTS

Thursday 15 March, 19.00–21.30 including breaks
Hampton Room, Chamberlain Tower, The Vale, 37 Church Road, B15 3AS

Free, booking recommended

Hot on the heels of Arts & Science Festival is another of the city’s fantastic festivals – Flatpack Film Festival (13–22 April 2018). Taking over venues and spaces across Birmingham, Flatpack celebrates moving image in all its creative glory. Expect new features, weird and wonderful short films, live audio-visual performances, archive film, family activities, and loads more in between.

To whet your appetite, Flatpack has put together a selection of animated shorts on the theme of ‘Stop Start!’ which brings together older stop-motion films from previous festivals with a selection of amazing shorts from their up-coming 2018 short film competition. Expect all manner of genres and themes, but look out for The Burden by Swedish animator Niki Lindroth von Bahr in particular – it may possibly be the greatest short film ever made. We’ll leave that up to you to decide…

Presented by Flatpack Film Festival in partnership with Arts & Science Festival
Trash Film Night presents...

HARD TICKET TO HAWAII

[dir: Andy Sidaris, 1987, 100 mins]

Thursday 15 March, 20.30–22.30
The Electric Cinema, 47–49 Station St, Birmingham B5 4DY
£8 / £6 conc, booking recommended. Book online at artsandsciencefestival.co.uk/festival-event/hard-ticket-to-hawaii

Lauded short film director Vigalondo makes his feature debut with this tense, unstoppable vision of science and natural law gone awry. A man who accidentally travels back into the past and meets himself. A naked girl in the middle of the forest. A mysterious stranger with his face wrapped in a pink bandage. A disquieting mansion on the top of a hill. All of them pieces of an unpredictable jigsaw puzzle where terror, drama and suspense will lead to an unthinkable crime. Who’s the murderer? Who’s the victim? TIMECRIMES takes a bold, difficult premise and brings the rarely-tread time travel framework to pulse-pounding but intelligent new heights.

This screening will be introduced by Dr Nick Effingham, Senior Lecturer in Philosophy at the University of Birmingham. Nick researches metaphysics, with ancillary interests in the philosophy of religion and the philosophy of epidemiology. His interests in metaphysics are mainly within the philosophy of time, particularly time travel—he’s recently completed a book on the philosophy of time travel, arguing that whilst it might be possible it would almost certainly be fatal for anyone to even to try to travel in time.

A film that appears on many a ‘worst movie’ list due to its over-the-top violence, cheesy dialogue, unintentional humour, and overall ridiculousness, Hard Ticket to Hawaii follows two undercover federal agents as they battle both drug smugglers and a contaminated giant python. For Arts & Science Festival, hosts Luke and David will provide live commentary, poking fun, pointing out absurdities and asking the very important question, ‘Why on earth did no one stop these people?’

Please note: this screening features LIVE COMMENTARY. If you want to watch Hard Ticket to Hawaii in respectful silence, then you’re in the wrong place!

Presented by Shock & Gore Festival in partnership with Arts & Science Festival

FLATLINERS

[dir: Joel Schumacher, 1990, 115 mins]

Sunday 18 March, 12.00–14.15
The Electric Cinema, 47–49 Station St, Birmingham B5 4DY
£10.50 / £7.50 conc, booking recommended. Book online at artsandsciencefestival.co.uk/festival-event/flatliners/

Five medical students (Kiefer Sutherland, Julia Roberts, Kevin Bacon, William Baldwin and Oliver Platt) intentionally stop and then revive their hearts in a bid to determine ‘what happens after we die?’ Excitement soon turns to dread when childhood nightmares and past tragedies begin to infiltrate their waking lives and the group faces the consequences of the horrors they have unleashed.

This screening will be introduced by Rachel Marchant, Doctoral Researcher in the School of Psychology at University of Birmingham. Rachel studies how our brains produce hallucinations, using electrical brain stimulation and recording methods.

Presented by Shock & Gore Festival in partnership with Arts & Science Festival
Screenings at mac birmingham

**MARIE CURIE: THE COURAGE OF KNOWLEDGE**

*dir: Marie Noëlle, 2016, 100 mins*

Wednesday 14 March, 20.00–22.00
mac Birmingham, Cannon Hill Park, Birmingham, B12 9QH
_tickets £9/£8.10 conc, booking recommended. To book your place, please visit macbirmingham.co.uk*

A sweeping biographical film about the first woman to win the Nobel Prize, *Marie Curie: The Courage of Knowledge* is as much an intimate portrayal of the struggles of the scientist’s private world as of her legendary public accomplishments, chronicling her battles against the male academic establishment, as well as her blissful marriage to her scientific partner, Pierre.

Director Marie Noëlle vividly depicts turn-of-the-century Europe in this portrait of the brilliant Polish-born woman who, at the age of 24, moved to Paris and launched her scientific career.

*Presented by mac Birmingham in partnership with Arts & Science Festival*

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**A MAN CALLED OVE**

*[dir: Hannes Holm, 2017, 113 mins]*

Friday 16 March, 14.00–16.00
mac Birmingham, Cannon Hill Park, Birmingham, B12 9QH
_tickets £9/£8.10 conc, booking recommended. To book your place, please visit macbirmingham.co.uk*

Stepping from the pages of Fredrik Backman’s international best-selling novel, *Ove* is the quintessential angry old man next door. An isolated retiree with strict principles and a short fuse, who spends his days enforcing block association rules that only he cares about, and visiting his wife’s grave, Ove has given up on life.

Enter a boisterous young family next door who accidentally flatten Ove’s mailbox while moving in, earning his special brand of ire. Yet from this inauspicious beginning an unlikely friendship forms and we come to understand Ove’s past happiness and heartbreaks. What emerges is a heartwarming tale of unreliable first impressions and the gentle reminder that life is sweeter when it’s shared.

One of Sweden’s biggest locally-produced box office hits ever, director Hannes Holm finds the beating heart of his source material and Swedish star Rolf Lassgård affectingly embodies the lovable curmudgeon Ove.

*Presented by Arts & Science Festival in partnership with mac birmingham*
START, STOP, PAUSE: KEEPING MOOD ON TRACK

Monday 12 March, 12.30–13.30
Arts Building, Lecture Room 5 (Second Floor) R16
Free, booking recommended

Bipolar disorder is a mental health condition in which people experience both higher than normal mood (mania) and lower than normal mood (depression).

At this event Chris will talk about his personal experience of bipolar disorder, its episodic nature, and the effects of medical and psychological interventions. He will be joined by Lizzie, a clinical psychologist, who specialises in talking treatments for bipolar disorder and psychosis.

Together they reflect on the start, stop, and pauses of mood changes, and the start and stop of psychological interventions. How can such interventions be put into practice? Do the effects of such interventions ever really stop?

Presented by the Department of Philosophy with sponsorship from project PERFECT – projectperfect.eu

THE INCREDIBLE HUMAN JOURNEY

Monday 12 March, 12.30–13.30
Medical School, Arthur Thompson Hall B1
Free, booking recommended

Ten years on from making her landmark BBC2 series, The Incredible Human Journey, Alice Roberts explores the latest insights into the colonisation of the globe by our ancient forebears. Sometimes racing along coastlines, at other times, seemingly staying still, with any advance blocked by great walls of ice, our ancient ancestors gradually spread right across the globe, adapting to a huge range of different environments along the way. New fossils, archaeological sites and astounding insights from genetics have painted a new picture of these ancient journeys, and the challenges faced by our ancestors.

DANCING WITH DINOSAURS

Tuesday 13 March, 12.00–12.45
Lapworth Museum of Geology R4
Free, booking recommended

Jack Richardson, Lapworth Museum of Geology Volunteer and earth sciences PhD Researcher, discusses his role and the development of the wonderful ‘Dancing with Dinosaurs’ clip which was used during the Lapworth’s Art Fund Museum of the Year campaign.

Presented by the School of Geography, Earth and Environmental Sciences in partnership with Lapworth Museum of Geology

Please visit boxoffice.bham.ac.uk or telephone 0121 414 4414 to book for festival events.
BARBER EVENING LECTURE

Tuesday 13 March, 17.30–19.15
The Barber Institute of Fine Arts  R14
قاء Tickets £5 / £4 conc., booking essential. Price includes a glass of wine or soft drink.

In October 2017, the Barber acquired the exquisite abstract *Linear Construction in Space, No 1*, by one of the most important sculptors of the 20th century, Naum Gabo.

This lecture by Russian Modernism expert Professor Christina Lodder, University of Kent, explores Gabo’s highly innovative work, inspired by the new scientific realities of the modern world as well as the social and political possibilities of the Russian Revolution of 1917. Producing constructed works from transparent materials and stringing, he succeeded in evoking space and time, while communicating his vision of a better and more human society.

*Presented by The Barber Institute of Fine Arts*

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SCULPTURES FOR THE MODERN WORLD

Naum Gabo, *Linear Construction in Space No.1*, 1943/4 © Nina & Graham Williams

JOHN BASKERVILLE: THE STOP-START CAREER OF AN 18TH CENTURY INFORMATION TECHNOLOGY ENTREPRENEUR

Tuesday 13 March, 12.30–13.30
Muirhead Tower, Cadbury Research Library, Seminar Room R21
قاء Free, booking recommended

Printing straddles both art and science. One of its greatest exponents was Birmingham’s John Baskerville (1707–75), an eighteenth-century printer and industrialist with a worldwide reputation. Baskerville was the ‘complete printer’ — he applied his scientific knowledge of materials and metal to enable the optimum execution of the artistic aspects of printing. His typographic experiments, which included casting and setting type, construction of the press, developing a new kind of paper and refining the quality of inks, put him ahead of his time, had an international impact and did much to enhance the printing and publishing industries of his day. The books he created — from an edition of Virgil’s poetry in 1757 to his final publication, William Hunter’s *The anatomy of the human gravid uterus of 1774* — are recognised as masterpieces of the art and technology of book production.

This event invites visitors to have a hands-on experience of Baskerville’s books in the Cadbury Research Library. Be guided through the collection with expert commentary from researchers and archivists with specialist knowledge of printing in general and Baskerville in particular.

*Presented by the School of History and Cultures in partnership with Cadbury Research Library*
HANS SCHWARZ – NEGOTIATING IDENTITY

Wednesday 14 March, 12.00–12.45
Research & Cultural Collections Study Centre, 32 Pritchatts Road G1
Free, booking recommended

Led by Researcher in Residence Ellie Hill, this event will explore issues of displacement, acculturation and identity trauma in the works of Austrian born artist, Hans Schwarz: a Kindertransport refugee exiled to Bournville, Birmingham in 1939. Schwarz’s career as an artist can be seen to evidence a negotiation between self-identity and subject under acculturative stress. Shedding light on key examples in Research and Cultural Collections’ archive, the talk considers the construction of émigré identity in Hans Schwarz’s portraits of people and landscape.

THE ANTIKYTHERA MECHANISM – A 2,000 YEAR OLD COMPUTER

Tuesday 13 March, 18.30–20.30
Poynting Physics Building, Large Lecture Theatre S02 (Second Floor)
Free, booking recommended

Constructed by Greek scientists during the Hellenistic period (c. 150 to 100 BC), the Antikythera mechanism is an astronomical computer with working gears and at 2000 years old, is the oldest known advanced scientific instrument.

The device was used to track and calculate the position of the moon, sun and planets, as well as predict the dates of solar and lunar eclipses. It is one of the greatest discoveries of ancient artefacts globally and proves that humans conceived and constructed a Mechanical Cosmos much earlier than we believed.

Join Dr Maria Pavlidou from the School of Physics & Astronomy for this interactive event in which you can hear the latest research on the device, manipulate photographs of the largest archaeological fragments of the Mechanism, and interact with a real model constructed by David Goodchild.

Supported by the Institute of Physics.

Photograph of Antikythera Mechanism model made by David Goodchild

Hans Schwarz’s Certificate of Registration, Research and Cultural Collections, University of Birmingham
CATEGORIES AND CATERPILLARS: CREEPY CRAWLIES OF THE 1600s

Thursday 15 March
11.30–12.00 and 13.15–13.45
The Barber Institute of Fine Arts, Prints and Drawings Study Room R14
Free, booking essential

Explore the history of categorisation and collections – from bugs to museums – through the Barber’s fascinating 17th Century print by Bohemian artist, Wenceslaus Hollar.

Hear about the caterpillars, creepy crawlies and winged creatures depicted in the work, before categorisation of the natural world post-Enlightenment!

Presented by The Barber Institute of Fine Arts

DIGITAL DINOSAURS

Thursday 15 March, 13.00–13.45
Lapworth Museum of Geology R4
Free, booking recommended

Enter the world of digital dinosaurs with Dr Stephan Lautenschlager, a vertebrate palaeontologist who specialises in the form, structure, and movement of Dinosaurs.

Using digital techniques, Stephan reconstructs ancient organisms in order to understand the relationship between form and function, and to investigate the evolution of biomechanics over time.

Presented by the School of Geography, Earth and Environmental Sciences in partnership with Lapworth Museum of Geology

FUTURE POSSIBILITIES LAB

Thursday 15 March, 18.00–19.30
Lapworth Museum of Geology R4
Free, booking essential

Join Barbara Walker, Divya Kasturi, Shaheen Ahmed, academics and communities as they discuss artistic connections with geological data.

Future Possibilities Lab (FPL) is a curatorial space exploring the connections between artistic practice and scientific data to develop new, digital, data art. FPL crosses both physical and digital spaces and brings together artists and academics to work collaboratively to interrogate research and participate in enquiry and discussion to question, subvert and inform practice.

www.futurepossibilitieslab.net

Please visit boxoffice.bham.ac.uk or telephone 0121 414 4414 to book for festival events.
To coincide with her solo exhibition at Grand Union, Melanie Jackson will be presenting her research on one of the most familiar substances we encounter: milk. Milk is polymorphic with an inclination for promiscuous collaboration – whether it be with bacteria, with cartoon avatars, with economics, pornography, racial politics or genetic re-calibration. It is fundamental to all mammalian bodies, and is one of the most technologised fluids on earth. Melanie’s project, Deeper in the Pyramid, is an expansive new body of work comprising animation, sculpture, a filmed performance and a publication in graphic novel format, written in collaboration with Esther Leslie. It engages with the bio-economy through the webs of exploitation and collective fantasy that interconnect various life forms through milk, its technologies and representations. This project will be delivered across three sites: Grand Union in Birmingham, Primary in Nottingham and Banner Repeater in London.

Presented by Grand Union in partnership with Arts & Science Festival

CATASTROPHIC VOLCANIC ERUPTIONS

Friday 16 March, 13.00–13.45
Lapworth Museum of Geology R4
Free, booking recommended

Join Dr Sebastian Watt, Lecturer in Earth Sciences, as he investigates volcanic eruptions, their implications for volcano development and wider geological impacts. Hear more about the physical and chemical processes that influence volcanic eruptions, and the impact of major volcanic eruptions from local to global scales.

Presented by the School of Geography, Earth and Environmental Sciences in partnership with Lapworth Museum of Geology
CAREERING THROUGH THE DAY

Friday 16 March, 12.30–13.30
Muirhead Tower, Room 112
(First Floor) 📍 R21
Free, booking recommended

What stops and starts your day?
What stops and starts your career?

These are questions that women have been discussing at the University of Birmingham, in the lead up to International Women’s Day on March 8th. Their responses have been summarised in a series of “sketchnotes” - an eye-catching and visual way of representing information - by graphic facilitator Pen Mendonca.

In this special lecture, Joanne Duberley, Professor of Organisation Studies at Birmingham Business School, will respond to the sketchnote drawings; making connections with her research into the impact of gender on careers and inviting discussion on how work and careers could be constructed differently.

Presented by the Equality Team

JANET MENDELSOHN’S PHOTOGRAPHS OF 1960S BALSALL HEATH

Saturday 17 March, 14.00–15.00
Ort Gallery (First floor), 500–504 Moseley Road, Balsall Heath, B12 9AH
Free, no booking required

In this talk Dr Kieran Connell, Queen’s University Belfast, will discuss Janet Mendelsohn’s recently-discovered photographs of 1960s Balsall Heath, a site of increasing ethnic diversity.

Dr Connell will talk about the historical context around the photographs, and explore what they reveal about a community in a period of rapid transformation.

Presented by Ort Gallery in partnership with Arts & Science Festival
SOUND SCULPTURES
Explore the sounds of sculptures across campus!

Monday 12 – Sunday 18 March
Download and listen at your leisure!
Across University of Birmingham’s Edgbaston campus
Free, no booking required

Sound artists Emma Margetson and Nikki Sheth combine field recordings with processed sounds to create distinctive soundscapes for sculptures across the University of Birmingham campus.

Each soundscape is influenced by the characteristics and physical properties of the sculptures and serve as a stop-start portal between natural and abstract sound-worlds.

You can stream or download the sculpted sounds at: www.soundcloud.com/sound-sculptures-2018

Presented by the Department of Music

GUIDED LISTENING WALKS

RELATED EVENT

SOUNDwalker

Monday 12, Wednesday 14, Friday 16 March
12.30–13.30
Walks start from Old Joe Clock Tower, Chancellor’s Court
Free, booking recommended

Join Emma and Nikki as they lead guided listening walks through their sound landscape trail across campus. You can stream or download the sculpted sounds at: soundcloud.com/sound-sculptures-2018

Presented by the Department of Music

SOUNDwalk

Thursday 15 March, 12.00–12.45
Winterbourne House and Gardens, meet at the entrance to the gardens G12
Free, booking recommended

This augmented SOUNDwalk through Winterbourne’s gardens provides a unique opportunity to actively listen to the sonic features of the environment.

Stop at our augmented listening stations to tune into sounds around you that are not normally audible to the naked ear.

Presented by SOUNDkitchen and BEAST in partnership with Winterbourne House and Garden.

SOUNDkitchen is dedicated to the promotion of composers and artists working in the field of sound.
soundkitchenuk.org

QUANTUM TECHNOLOGY SOUNDWALK

Monday 12 March, 12.30–14.00
Walks start from Old Joe Clock Tower, Chancellor’s Court
Free, booking recommended.

Are you sick of getting stuck in traffic jams? Do you know how important time is for national and local security? Are you an avid user of your mobile phone? Do you want to see an advance in the early detection of illnesses, such as dementia?

Behind the services and devices we use, and the activities that fill our daily lives, is the use of Quantum Technology. Quantum theory is the science of the very small, but, in spite of its importance for everyday existence, it can be very counterintuitive to our experience of everyday life.

We invite you to take an audio tour of the University of Birmingham and uncover the secret sounds of Quantum Technology. As you walk around our campus, your tour guide will point out familiar sights and use sound to explain the science that usually goes unnoticed in our everyday lives.

Presented by School of Physics and Astronomy in partnership with BEAST
YOU WANT ME TO STOP DOING WHAT?!

Many people feel powerless to do anything about climate change, despite being concerned about it. Reducing emissions is said to be too time consuming, too costly, too difficult, while the changes we could make in our daily lives are too small to make a difference anyway.

Join academics from Birmingham and Newcastle for this lively workshop which considers issues including: How much can we be expected to do about climate change and can we really make a difference to this global problem? When we ask people to reduce their emissions, what sorts of considerations are important? Who can have the biggest impact on the problem? Who should be allowed to emit the most?

The workshop will provide important feedback for a research project which considers the lives of ‘real’ people and the extent of their individual responsibility for climate change. It also offers participants an opportunity to reflect on their own circumstances and their ability to reduce their emissions.

Presented by the Department of Philosophy

Tuesday 13 March, 12.00–13.00
Law Building, Room 114 (First Floor)
R1
Free, booking recommended.

STOP SITTING, START MOVING

We are all living longer, but sadly not healthier. As we get older, we are less physically active and the latest research shows that too much sitting can negate the benefits of regular exercise.

This interactive session includes talks on why being sedentary is bad for your health, and will offer tips on easy ways to increase your activity.

The event ends with 25 minutes of ‘Chair Based Exercise’ including sitting and standing movements, a practical way to increase flexibility and reduce sedentariness.

This event is presented by University of Birmingham Sport and the MRC-ARUK Centre for Musculoskeletal Ageing Research

Tuesday 13 March, 12.30–13.30
Sport and Fitness, Meeting Rooms (First Floor) O7
Free, booking recommended.

LAPWORTH MUSEUM TOUR

Join museum staff and explore 4.5 billion years of earth history in the Lapworth Museum of Geology – Art Fund Museum of the Year finalist.

Explore behind the scenes in the museum’s vast stores, which hold over 250,000 items of outstanding quality; from Dinosaurs to Diamonds, there’s something for everyone!

Wednesday 14 March, 12.00–13.00
Lapworth Museum of Geology R4
Free, booking recommended
MAKE YOUR OWN PARTICLE!

Wednesday 14 March, 18.00–19.30
Physics West Seminar Room 1 (103) R8
Free, booking recommended.

This session is for children aged 8 years and over.
Join Professor Cristina Lazzeroni and Dr Maria Pavlidou for a hands-on workshop for young children and their parents.
Learn about the research by particle physicists at CERN and hear about the varying personalities and behaviours of different particles.
Participants can also design and make their own subatomic particle using an array of decorations and their imaginations!

Presented by Prof C Lazzeroni and Dr M Pavlidou, School of Physics and Astronomy.

PARTICLE PHYSICS AND FINE ARTS

Thursday 15 March
12.00–13.30
Poynting Building
Bridge Study Room R13
£1, advance booking recommended
Join Ian Andrews (artist) and Kostas Nikolopoulos (physicist) and experiment with visualisation and mark-making to explore the intriguing connections between art and science!

Presented by the School of Physics and Astronomy in partnership with Ian Andrews. This workshop has been developed as part of the EU-supported CREATIONS project.

KEEP MOVING:
Drawing and Writing Workshop

Thursday 15 March, 10.00–13.00
The Barber Institute of Fine Arts R14
Free, booking essential. Book online at: barber.org.uk
Explore movement and action in the Barber galleries through drawing and writing in this cross-disciplinary workshop. Visual artist Tom Jones and writer Jacquie Rowe will help you to create your own original piece, combining images and text.
Open to writers and artists of all levels of experience and ability.

Presented by The Barber Institute of Fine Arts

DYS<BR>FUNCTION

Thursday 15 March, 13.30–16.00
ERI Building, Digital Humanities Hub, Ground Floor G3
£5, booking recommended.
Vivid Projects’ Black Hole Club is a lively, daring space for creative people – artists, designers, curators, writers and more – in the West Midlands to share and test ideas.
Join David Checkley, Sarah Walden (Birmingham City University) and Coral Manton (Plymouth University, i-DAT), members of Black Hole Club’s 2017 cohort, for this interactive workshop examining the form and function of cognitive interruption as experienced by neurodivergent individuals (e.g. people with Autism Spectrum Disorder, Synaesthesia, Dyspraxia, Dyslexia and ADHD).
Bringing together sculpture, immersive video and virtual reality with somatic exercises and brainwave monitoring, the workshop will encourage participants to consider the generative and creative aspects of cognitive interruption and neurological difference.

Presented by members of Vivid Projects’ Black Hole Club 2017

Please visit boxoffice.bham.ac.uk or telephone 0121 414 4414 to book for festival events.
PATHWAYS TO BIRMINGHAM’S FUTURE

Thursday 15 March, 18.30–19.30 with optional post-walk pub visit
Meet at 18.20 at Jewellery Quarter Railway Station, Vyse Street, B18 6LE
Free, booking recommended

No longer the centre of the industrial world, Birmingham and the wider West Midlands must find its place for a more sustainable future.

The Jewellery Quarter, where this walk begins, is a well-known example of urban regeneration, but has its transition sanitised our perception of the past? How does it impact the futures we imagine?

Join three researchers from across the University of Birmingham on a walking tour from the Jewellery Quarter into the city centre which considers the effects of these changes.

Presented by Coralie Acheson (Ironbridge International Institute for Cultural Heritage), Aimee Jackson and James Walker (both Fuel Cell and Hydrogen Research Centre).

THE IMPRINT OF STEAM: THE STEAM ENGINE IN POPULAR PRINT CULTURE

Friday 16 March, 12.30–13.30
Muirhead Tower, Cadbury Research Library, Seminar Room R21
Free, booking recommended.

Martin Killeen and Dr Kate Croft will lead a hands-on session looking at the role printed material played in the development of steam technology.

It will consider how printed material disseminated new scientific ideas to innovators like James Watt, but also allowed ordinary people access to information about science, technology and innovation and created an audience for popular science for the first time.

Presented by the School of History and Cultures in partnership with Cadbury Research Library.
START // STOP…
THE INVISIBLE ART OF THE GUIDED WALK

Sunday 18 March, 12.00–13.30
Meet at the Bronze Bull, Rotunda Square, Bullring, B5 4BE
Free, booking essential. To book your place, please visit: ti.to/still-walking/start-stop

The format of the guided walk is surely the most direct way to share information with a group: nothing separates the guide and attendees from the subject. Familiar environments are revealed to be layered, nuanced realms worthy of our observation, consideration and comment; an experimental narrative that was formerly private and silent becomes shared and vocal.

The benefits are many: no specialist equipment is needed, the guide is on hand for questions and — handily — there are several ‘walking breaks’ in the narrative, allowing thoughtful digestion of the themes. The world can seem like a veil has been lifted. Why don’t we attend guided walks more often?

For Start // Stop… Ben Waddington — director of Birmingham’s Still Walking Festival — leads a city walk that is at once a reflection on the identity and invisible rhythms of the city and an unpicking of the hidden mechanics of the guided tour.

Expect to learn about crowd dynamics, pedestrian behaviour, deep observation and use of Civic Spaces as much as the industrial and aesthetic heritage of our city.

Presented by Still Walking Festival — stillwalking.org

Image by Ben Waddington

ART & TECHNOLOGY

Friday 16 March, 13.00–13.45
European Research Institute, IT Innovation Centre, Room 106 (First Floor) G3
Free, booking recommended.

Over the past decade, new technologies have had a revolutionary impact on our ability to create art. No longer bound by the physical limitations of the gallery, technology has provided artists with new ways of expressing themselves, pushing the boundaries of creativity and sensory experience.

In this workshop, participants will explore some of the technologies that are helping to reshape art and its production. Demos include:

— Google Tilt Brush – allowing the user to create art in a virtual space
— 3D scanning – using HP Sprout to create your own artwork
— Gesture control in dance and music making

Presented by the IT Innovation Centre

TIME MOVES

Friday 16 and Saturday 17 March
12.00–14.00 daily
Winterbourne House & Garden G12
Free entry for workshops, booking recommended. To book your place, please visit: winterbourne.org.uk

Admission to the site outside of workshop times is chargeable at the standard rate.

Collect an Activity Trail Map and follow Winterbourne’s Time Moves Trail. Suitable for adults and children alike, participants are invited to consider time and movement through interactive and participatory activities including:

— Graffiti boards in the garden
— Drop-in drawing and painting workshops exploring rotational motion of machines and plant growth led by artist Saranjit Birdi
— An outdoor gallery of participants’ work. Visitors are invited to hang their work on display lines and watch it change as it is exposed to the outdoor elements for the duration of the festival

Presented by Winterbourne House and Garden

The world can seem like a veil has been lifted. Why don’t we attend guided walks more often?

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Presented by Still Walking Festival — stillwalking.org

Image by Ben Waddington

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<td>Stop/Start Film Festival</td>
<td>Screening</td>
<td>Aston Webb (Block C), Main Lecture Theatre</td>
<td>18.30–21.00</td>
<td>Free</td>
<td>28</td>
</tr>
<tr>
<td>RE-Animation</td>
<td>Event</td>
<td>Old Joe Clock Tower, Chancellor’s Court</td>
<td>19.30–21.00</td>
<td>Free</td>
<td>19</td>
</tr>
</tbody>
</table>
the University of Birmingham is located in south-west Birmingham, approximately 3 miles from the city centre. For maps and information about getting to the University please visit www.birmingham.ac.uk/maps

BY TRAIN
Regular trains run from Birmingham New Street to University Station, please check train times at nationalrail.co.uk

PAYING AND DISPLAY
Pay and Display
North East Car Park,
S2 Pritchatts Road
Satnav: B15 2SA

Blue Badge holders
Paying is available on campus beyond the security barriers.

Arts & Science Festival is developed and delivered by the Cultural Engagement team at the University of Birmingham.

We would like to thank all involved in the planning, promotion and delivery of festival events. Special thanks to Laura Milner, Rachael Yardley, Patrick Dandy, Ian Grovenor, Jo Sweet, Jen Ridding, Bec Randle, Jon Clatworthy, Anna Chrystal, Clare Mullett, Jenny Lance, Josh Allen, Joe Jones, Frances Mann, Aaron Croston, Robin Kirkham, Harry Blackett, Rachel Davenport.


HOW TO FIND US
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HOW TO BOOK
Unless otherwise stated, please visit www.boxoffice.bham.ac.uk or telephone the Box Office on 0121 414 4414 to book festival events. Please note all chargeable events are subject to a £1.25 booking fee. There is no booking fee for free events.

CREDITS
Front cover images (clockwise from left to right): Film still taken from Unrest, Jason Frank Rothenberg; image by Janet Mendelson; image courtesy Eva Staff, LANS (Year 2)