

UNIVERSITY OF
BIRMINGHAM

16–22 March 2015

www.birmingham.ac.uk/artsandsciencefestival

ARTS



SCIENCE



FESTIVAL

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WELCOME

The University of Birmingham's Arts & Science Festival returns for its third year and we're delighted to play host to a week-long programme of events celebrating ideas, research and collaboration across campus.

This year's festival theme is 'Sight & Sound' and we have a sensational line up in store. From an immersive performance in a mobile planetarium (page 21) to Caroline Devine's off-site sound installation exploring the acoustic resonances of stars (page 18) to a session exploring the links between sight, sound and mental health (page 30) – there's something for everyone.

Continuing our work with leading organisations across the region, we're delighted to present an artist double bill on Tuesday 17 March (both page 31); we are joined by sound artist Mat Jenner as he discusses his forthcoming exhibition at Grand Union which includes a mass collection of one-off 12" dub plate records by 115 contemporary artists. This is followed by a rare opportunity to hear prominent Norwegian artist AK Dolven talk about her work and exhibition at Ikon Gallery. Flatpack Film Festival will close the programme with *Celluloid City* (page 27), an afternoon of free screenings and activities taking you through a century of cinema-going, and where better to experience that than Birmingham – the birthplace of celluloid and the Odeon circuit!

We also welcome a festival first for 2015 – the University's MA Film and Television department have launched a one-minute movie competition to coincide with Arts & Science Festival. Join them to see shortlisted entries and to hear the winner announced (page 23).

In the spirit of academic research we encourage you to fuel your interests, exercise your curiosity, and navigate your way through the festival programme with verve.

Thank you for joining us.

— Professor Ian Grosvenor

CONCERTS

Join University of Birmingham's Department of Music for a special programme of concerts to launch Arts & Science Festival 2015.

On **Friday 13 March (7.30pm)**, the University Symphony Orchestra performs a concert highlighting the many talents of its members. This will include a new composition by William Tuckwell, Borodin's *In the Steppes of Central Asia*, Rimsky-Korsakov's *Capriccio Espagnole* and Tchaikovsky's *Piano Concerto No. 1 in B-flat minor*.

Saturday 14 March (7.30pm) sees the University Chorus perform with organist Nicholas Wearne and student soprano soloists Madeleine Roy, Naomi Sheer and Holly Singlehurst under the direction of Julian Wilkins. Includes Finzi's 1946 anthem *Lo, the full final sacrifice*, Kodaly's 1966 fantasia on a 17th century Sequence Laudes organi, and Mendelssohn's 1844 anthem *Hear My Prayer*.

On **Sunday 15 March (3pm)**, the Music Society's Saxophone Ensemble presents an afternoon of light entertainment including a mixed programme of arrangements and original compositions for saxophones.

All concerts take place in the Bramall Music Building (R12). Tickets cost £10/8/3 per event and are available at shop.bham.ac.uk

FINAL YEAR RECITALS

Monday 16 March, 12.30 – 14.00
Bramall Music Building,
Dome Room, 3rd Floor R12
Free

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

Jefferson Goh – cello
Stephanie Nixon – flute
Madeleine Roy – soprano
Eugenie Pui – cello

AWAKE

Monday 16 March, 19.00
Bramall Music Building,
Elgar Concert Hall R12
Free

Performance of a major new musical work using first-hand patient accounts, by award-winning composer Michael Zev Gordon and internationally renowned poet Ruth Padel.

* see page 11 for full details.

BEAST: EVENSONG

Thursday 19 March, 18.15, 19.00 & 19.45
(each session lasts 30 minutes)
Bramall Music Building,
Dome Room, 3rd Floor R12
Free

Tune into your surroundings and join BEAST for a deep listening session drawing together sounds collected from locations across campus and beyond.



All concerts presented by the
Department of Music and Music Society

The Age of Choirs: University Women's Choir
and Chamber Choirs, p. 8

TESLA QUARTET

Friday 20 March, 13.10 – 14.00
The Barber Institute of Fine
Arts, Concert Hall ♡ R14
💎 Free

Winner of the Gold Medal at the 2012 Fischhoff National Chamber Music Competition and prize winner in the 2012 London International String Quartet Competition and 2013 Bordeaux International String Quartet Competition, the Tesla Quartet was formed at The Juilliard School in 2008 and quickly established itself as one of the most promising young ensembles in New York, winning Second Prize at the J.C. Arriaga Chamber Music Competition only a few months after its inception.

Schubert: *String Quartet in C minor, D. 703, 'Quartettsatz'*

Linus Köhring: *7 Aphorismen*

Mendelssohn: *String Quartet in E minor, Op. 44, No. 2*

Ross Snyder – violin

Michelle Lie – violin

Edwin Kaplan – viola

Serafim Smigelskiy – cello



BRASS IN CONCERT: UNIVERSITY BRASS BAND & BIRMINGHAM SYMPHONIC BRASS

Friday 20 March, 19.30 – 21.30
Bramall Music Building,
Elgar Concert Hall ♡ R12
💎 £10 / £8 / £3 students
Advance online booking
essential at shop.bham.ac.uk

The University's premier brass ensembles present an evening of entertainment with an eclectic mix of traditional and modern brass band music, solo items, and new arrangements for brass dectet.

Birmingham Symphonic Brass, an ensemble of ten talented orchestral brass players, performs under the direction of leading brass ensemble composer/arranger and conductor, Stephen Roberts. The Music Society's Brass Band performs with their professional conductor, Stuart Birnie.



THE AGE OF CHOIRS: UNIVERSITY WOMEN'S CHOIR AND CHAMBER CHOIRS

Simon Halsey — conductor

Jack Apperley & Claire Hughes — student conductors

Saturday 21 March, 19.30 – 21.30

**St George's Church,
1 Westbourne Crescent,
B15 3DQ**

💎 **£10 / £8 / £3 students**

**Advance online booking
essential at shop.bham.ac.uk**

Simon Halsey is joined by two talented student conductors for this concert which brings together three of the University's choirs for an abridged history of choral chamber music.

The Music Society's female voices chamber choir perform a programme from the Baroque period (c. 1600 – c.1750) before passing the baton to the mixed voices chamber choir as they take us into the Classical and Romantic eras (c. 1750 – c. 1900). Bringing the programme to modern day will be the award-winning University Women's Choir who will perform choral works from the 20th century, written entirely by female composers.



PHILHARMONIC ORCHESTRA

Daniele Rosina — conductor

David Quigley — piano

Sunday 22 March, 15.00 – 18.00

**Bramall Music Building,
Elgar Concert Hall 📍R12**

💎 **£10 / £8 / £3 students**

**Advance online booking
essential at shop.bham.ac.uk**

Internationally acclaimed Irish concert pianist David Quigley joins the Music Society's Philharmonic Orchestra in a performance of George Gershwin's captivating *Piano Concerto in F*. The concerto is presented alongside the music of Maurice Ravel – in recognition of the mutual admiration the two composers had for each other's work. The orchestra perform Ravel's *Pavane for a Dead Princess*, ballet music from *L'éventail de Jeanne* and *Mother Goose*, as well as the composer's most recognisable work, the one-movement *Boléro*.

Gershwin: Piano Concerto in F

Ravel: Fanfare for *L'éventail de Jeanne*, *Pavane pour une infant défunte*, and *Boléro*

CONVERSATION PIECES

AWAKE ANAESTHESIA – MUSIC – CONSCIOUSNESS

Monday 16 March, 19.00
Bramall Music Building,
Elgar Concert Hall R12
Free

You are aware, but you are meant to be unconscious.

AWAKE explores the findings of the largest ever study of awareness during anaesthesia through music, poetry and discussion in an event designed to challenge your very concept of consciousness.

The evening features a presentation of the findings of the study together with a major new musical work using first-hand patient accounts, by award-winning composer Michael Zev Gordon and internationally renowned poet Ruth Padel. There will also be a set of songs on the subjects of dream and consciousness, and a round table with scientists and artists.

Hilary Summers – *Mezzo-soprano*
Andrew West – *Piano*
Julien Guillamat – *Electronics*

*AWAKE is supported by the
Wellcome Trust*

IMAGINING MUSHROOMS

Tuesday 17 March, 12.30 – 13.30
The Barber Institute of Fine Arts,
Lecture Theatre R14
Free, booking recommended.
Book online at [imagining-mushrooms.
eventbrite.co.uk](http://imagining-mushrooms.eventbrite.co.uk)

Join Winterbourne artist in residence, Anne Parouty in conversation with photographer and forager Ming de Nasty, chemical engineer Dr Philip Cox, and composer and Professor of Composition Michael Zev Gordon as they consider the role of imagining and imagination in their research, and explore connections in the ways that artists and scientists work.

The discussion brings to life *Imagining Mushrooms*, a new exhibition at Winterbourne House, which draws together representations of mushrooms produced using the oldest photographic printing processes and micro-imaging, to sound shapes captured within a musical score.



PAREIDOLIA – HUNTING THE MIND'S WILDLIFE

*Ben Waddington in conversation with
Matt Westbrook + walking 'safari' tour*

Friday 20 March, 12.30 – 14.00

Mechanical & Civil Engineering
Lecture Theatre B23 Y3

✦ Free, booking essential. To book
your place, please visit: [hunting-the-
minds-wildlife.eventbrite.co.uk](https://hunting-the-minds-wildlife.eventbrite.co.uk)

Pareidolia is the psychologists' term for the brain's tendency to detect forms and faces in nature where none exist. Whether that means naming constellations, reading tea-leaves or watching animal clouds float through the sky, humans have long tried to make sense of the chaos around us. To see patterns is to witness the brain's programming and survival instinct at work but it can also be a delightful reminder of its occasional quirks and jitters.

For the last three years, Ben has been collecting real-world examples seen in nature and in artifice, and learning the tricks that can reveal them.

Matt Westbrook, artist in residence at the University's Research and Cultural Collections, has independently been doing his own pareidolic research.

Join them for an illustrated presentation and conversation that will shine a light on the shadowy recesses of human perception and artistic creativity. The event will be followed by a walking 'safari' tour of the University campus, looking for live examples of this intriguing phenomenon.

*Presented by Cultural Engagement in
partnership with STILL Walking Festival*



EXHIBITIONS



CIVIC SCIENCE: OLIVER LODGE AND BIRMINGHAM

Monday 16 – Friday 20 March

9.00 – 18.00

Exhibition continues to 18 May 2015,
open Mon–Fri, 9.00 – 18.00
Muirhead Tower, Atrium ♡ R21

Cadbury Research Library presents an exhibition highlighting aspects of the career of the British physicist Oliver Lodge, during his time as Principal at the University of Birmingham (1900–1919). The exhibition includes his influence on the development of the institution, as well as his scientific research and other interests. An online version of the exhibition is also available on the Cadbury Research Library's Flickr page: [flickr.com/people/cadburyresearchlibrary](https://www.flickr.com/people/cadburyresearchlibrary)

Presented by Special Collections: Cadbury Research Library

IMAGINING MUSHROOMS

Monday 16 – Monday 23 March

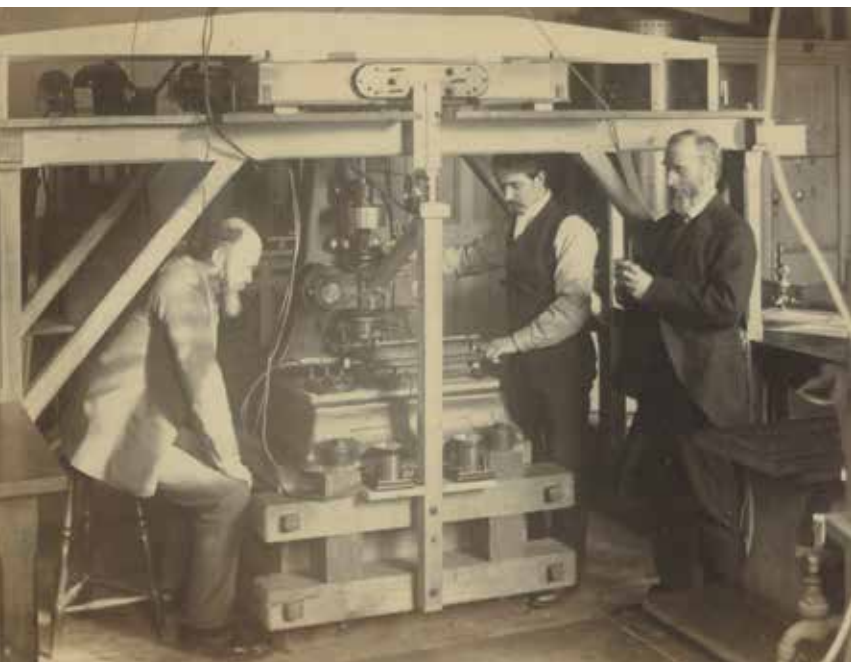
Mon–Fri, 10.00 – 16.00 &

Sat–Sun, 11.00 – 16.00

Courtyard Gallery, Winterbourne House & Garden ♡ G12

Winterbourne artist in residence, Anne Parouty, invites photographer and forager Ming de Nasty, chemical engineer Dr Philip Cox, and composer and Professor of Composition Michael Zev Gordon to imagine and explore mushrooms from alternative perspectives; from representations produced using the oldest photographic printing processes and micro-imaging, to sound shapes captured within a musical score.

Presented by Winterbourne House & Garden



Left:
Image courtesy
Cadbury Research Library:
Special Collections

Opposite:
Photography by
Jim Simpson.
All Rights Reserved
Jim Simpson's
Limited Edition Prints
available from
www.havillandtravis.com

THE SOUND OF SISTER CITIES: HOME, HARMONY AND HOPE

Monday 16 – Friday 20 March

Exhibition continues to 17 April 2015

Open Mon–Fri, 9.00 – 18.00

Bramall Music Building, Foyer ♡ R12

Home, Harmony and Hope will explore the musical prominence of Birmingham and Chicago and the instrumental role of music in building and creating community. Combining photographs by Jim Simpson with artefacts and stories, the exhibition will embrace the lives of Birmingham and Chicago residents, whose music plays a vital role in expressing feelings, sharing culture and identity and holding history.

Presented by Research and Cultural Collections in partnership with National Public Housing Museum, Chicago and Havill & Travis

IMAGES OF RESEARCH

Monday 16 – Sunday 22 March

Mon–Thu & Sat–Sun, 10.00 – 17.00

Fri, 10.30 – 17.00

Birmingham Museum and Art Gallery,
Chamberlain Square, B3 3DH

How do you sum up an entire research project in just one image? That's the challenge that we have set postgraduate researchers from the University of Birmingham. Researchers from a wide range of research disciplines have either taken an image from their research, or created an image that sums up their project in order to present their work to a wider audience.

The images will be on display for the whole of Arts and Science Festival week, with an online poll running to allow you to select your favourite. The winner will be announced at the *Images of Research* event on Saturday 21st March 2015.

Presented by University Graduate School

Exhibitions at The Barber Institute

All exhibitions open

16–20 March, 10.00 – 17.00 &

21–22 March, 11.00 – 17.00

The Barber Institute of Fine Arts

📍 R14

🎫 All exhibitions are free

NEW ART WEST MIDLANDS

Exhibition continues to 17 May 2015

Voyeurism, idolatry, the transience of life and orange-phobia are among the diverse subjects and themes explored in this year's New Art West Midlands.

Created in a wide range of media – including oil, acrylic, photography, found objects, textiles and boiled sweets – this multi-site, selective award exhibition showcases work by emerging local artists. The third in a collaborative annual series, New Art West Midlands 2015 presents some of the best, critically engaged work by recent graduates from the five West Midlands university art schools. Works are displayed in the dedicated exhibition space and as thought-provoking interventions among the Barber's permanent collection.

REVOLUTIONISING FASHION

Exhibition continues to 26 April 2015

The frivolous and extravagant fashions of the *Ancien Regime* were brought to a swift and bloody end at the onset of the French Revolution in 1789.

In the ensuing years, a taste for simpler, classically inspired clothing migrated across from Revolutionary France into Britain. This display explores the depiction of fashionable dress in an array of elegant 18th- and early 19th-century British miniatures by the likes of Richard Cosway, George Engleheart and John Smart. On loan from two outstanding private collections, these delicate little paintings are complemented by prints from the Barber's own collection.

INHERITING ROME: THE IMPERIAL LEGACY IN COINAGE & CULTURE

Exhibition continues to 24 January 2016

Look at one of the coins you're carrying today: you'll see the Queen's portrait facing right and Latin script around the royal head.

It seems our coins have looked this way forever – and that's nearly true. But why? This exhibition uses money to explore and question our deep-seated familiarity with the Roman Empire's imagery. Britain is not the only nation, empire or state to channel ancient Rome in this way: the Barber's excellent collection of coins from the Byzantine Empire – as well as examples from Hungary, Georgia and Armenia – illustrate both the problems and possibilities of being genuine heirs of Rome.

Attempting to uncover the political uses of Rome's legacy, this exhibition encourages the visitor to ponder why we are so often told of the empire's importance – and whose interests such imagery serves.



Opposite: *Chrysophobia* #3, Alexandra Darby, 2014

POETICS OF (OUTER) SPACE

Wednesday 18 –
Sunday 22 March, 12.00 – 17.00
Perrott's Folly, Waterworks
Road, Edgbaston, B16 9AL

*Please note, the Folly is only
accessible via a steep spiral
staircase and only 8 people are
allowed into the tower at a time
so there could be a short wait
when the site is busy.

IKON

Poetics of (Outer) Space (2015) is a multi-channel
sound installation by Caroline Devine that explores
the natural acoustic resonances of stars and the
orbits of newly discovered exoplanets. Sonified data
from the NASA Kepler Mission is presented as an
evolving composition. Sited in Birmingham's historic
landmark tower, Perrott's Folly, the work was devel-
oped throughout 2014 during Devine's Leverhulme
Artist Residency with the Solar and Stellar Physics
Group in the School of Physics and Astronomy at the
University of Birmingham.

Devine has collaborated with Professor Bill Chaplin
and the group since 2012 and has incorporated he-
lioisomological data into a number of sound works
including *Space Ham* for BBC Radio 3, *Oscillate* for
SOUNDWORKS, ICA and *5 Minute Oscillations of the
Sun* – shortlisted for a BASCA British Composer Award
in 2013.

*Supported using public funding by the National
Lottery through Arts Council England.*

*Presented by Caroline Devine in partnership with
the Leverhulme Trust, University of Birmingham, and
Ikon Gallery*



STONES & BONES

Monday 16 – Sunday 22 March
Exhibition continues to 17 May
Mon–Fri, 8.00 – 20.00 & Sat, 9.00 – 17.00
& Sun, 11.00 – 16.00
Library of Birmingham, The Gallery
(Level 3), Centenary Square, B1 2ND

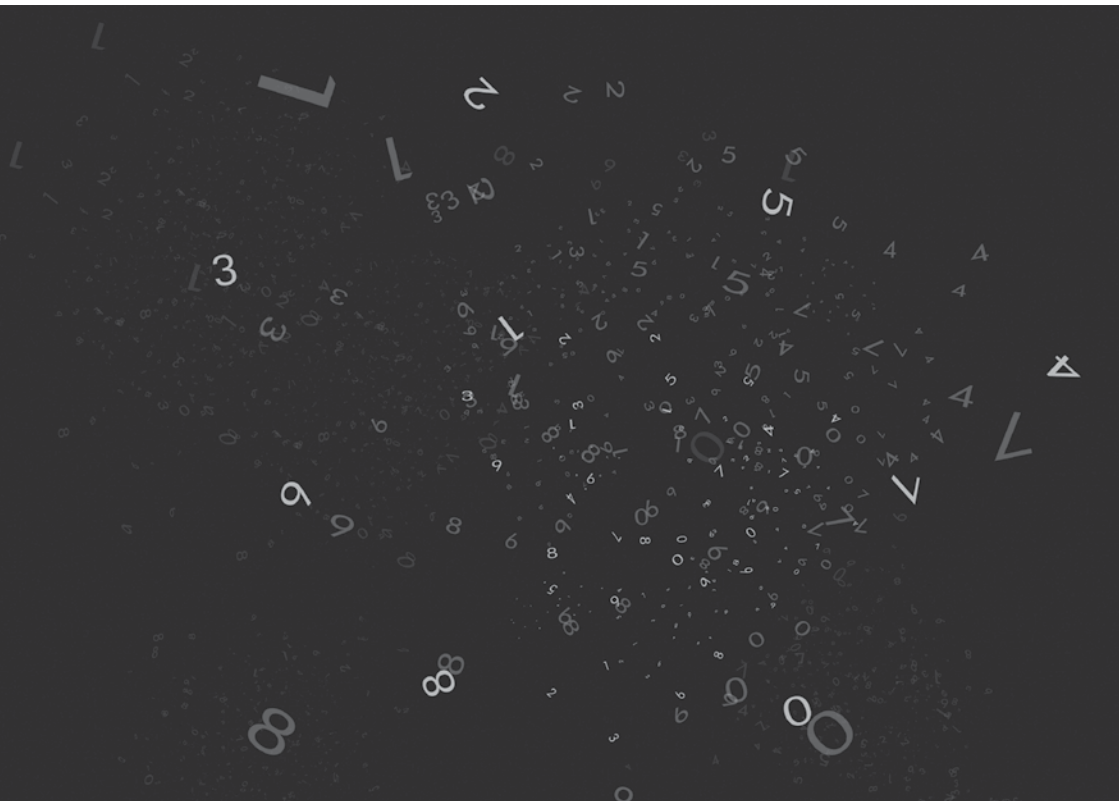
Visit the *Stones & Bones* exhibition and take
a trip through time!

At different times the Midlands was like
the Mississippi delta, the Bahamas and the
Sahara desert. More recently, the area was a
cold glacial landscape with mammoths and
woolly rhinos, separated by warmer periods
when hippos and lions roamed the area.

Come and discover more about the early
history of the Midlands and how that his-
tory was uncovered, recorded and told by
prominent local geologists and scientists.
The exhibition explores what impact these
discoveries had on the region, culturally and
industrially and what these investigations
can tell us about our world today.

Stones & Bones is an exciting collabora-
tion between Library of Birmingham and
the Lapworth Museum of Geology at the
University of Birmingham.

*Presented by The Lapworth Museum of
Geology in partnership with Library of
Birmingham*



PERFORMANCES



E-X-P-A-N-D-I-N-G: THE HISTORY OF THE UNIVERSE IN 45 MINUTES

Tuesday 17 March, 12.00 – 13.00, 14.00 – 15.00 & 16.00 – 17.00
Munrow Sports Centre,
Sports Hall (Ground Floor) 📍 R25
🔗 Free, advance booking essential.
Please visit expanding.eventbrite.co.uk

Lie down, look up, and listen – this is an unmissable immersive, entertaining, mind-expanding experience in a mobile planetarium dome with 360 degree visuals!

The performance brings together an astrophysicist, two poets and a musician in a careful balance of voices, music, sound and visuals.

"Astonishingly well put together in that this is the ultimate 'sensory' experience. Clever. Disorientating. Insightful. Beautiful."

Please arrive ten minutes prior to performance – late entrants will not be admitted under any circumstances. Please note, the performance is experienced from the floor – mats and cushions are provided.

THE BITTER TEARS OF PETRA VON KANT

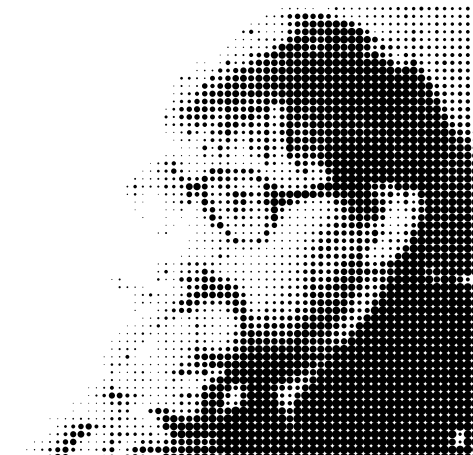
by Rainer Werner Fassbinder
Translated by Denis Calandra
Directed by Gareth Nicholls and Philip Holyman of Little Earthquake

Thursday 19 – Saturday 21 March
19.30 & 14.00 matinee on Sat 21 Mar
George Cadbury Hall,
998 Bristol Road, B29 6LU
🔗 £8 / £6. Advance online booking recommended at shop.bham.ac.uk

Marking the 70th anniversary of Fassbinder's birth, Little Earthquake joins forces with the University to stage the Birmingham premiere of this classic melodrama from the boozed-up bisexual bad boy of German cinema.

Petra von Kant is the queen of the Bremen fashion scene, and having buried one husband and divorced her second, she unexpectedly finds love in the form of Karin, a much younger woman who becomes her model and her muse.

But when home truths start to flow along with the gin and tonics, the stage is set for Petra's downward spiral into self-destruction, all set to a sizzling soundtrack of German kitsch pop classics.



SCREENINGS

ONE MINUTE MOVIE COMPETITION

Tuesday 17 March, 18.30 – 20.30

Lecture Theatre G15,
Muirhead Tower 📍 R21

🎟 Free, booking required. Book online
at one-minute-movie.eventbrite.co.uk

MA Film and Television showcase documentary films and guided editing projects by recent alumni of the MA in Film and Television: Research and Production, with an introduction from key members of academic staff.

The second half of the evening will see a shortlist of films from the inaugural Department of Film and Creative Writing *One Minute Movie* competition. This is followed by a short panel discussion, announcement of the competition winner, and award of the grand prize!

*Presented by MA Film and Television and
B-Film: The Birmingham Centre for Film
Studies*

RITUALS OF DISORDER

Thursday 19 March, 12.00 – 14.00

Research & Cultural Collections,
32 Pritchatt's Road 📍 G1 🎟 Free

This multimedia installation piece has been created by Liberal Arts and Science students as part of a module which looked at contemporary approaches to life, death and aging.

Drawing influence from SciArt and the work of artists including Damien Hirst and Christine Borland, the work comprises a film – produced, recorded and edited from scratch – with self-made plinths, found objects and integrated quotes taken from interviews conducted with various experts on the subject of death. Interviewees include anatomist Professor Alice Roberts who discussed cremation, a visual artist, a psychotherapist and a psychology scholar.

*Presented by Liberal Arts and Sciences in
partnership with Research and Cultural
Collections*

FILM & HUMAN RIGHTS: LOCAL STORIES & BIGGER PICTURES

Wednesday 18 March, 18.30 – 21.30

Lecture Theatre G15,
Muirhead Tower 📍 R21

🎟 Free, booking required
Book online at [screening-rights.
eventbrite.co.uk](https://screening-rights.eventbrite.co.uk)

Don't miss this evening of screening and discussion exploring human rights and filmmaking. The programme includes a showcase of short films on social issues made by local school pupils from Holte Academy in Lozells in collaboration with Film Studies staff at the University, and will be followed by a discussion bringing together academics, activists and filmmakers.

After a short break, we're delighted to be able to screen the documentary *Sons and Daughters of the Alarde* (2013), which looks at the difficulties faced by women who wish to participate in the Alarde (weapons parades) in the Bidasoa area of the Basque Country, and reflects the tensions in this region. The celebrations that run throughout the day of the Alarde serve as the backdrop to the conflict between those who favour the participation of women and those who oppose it. The director of the film, Jone Karres, will be present and will participate in an interview and Q&A with the audience. Jone Karres works as a film critic for international press.

The event is sponsored by the University of Birmingham and its research centre B-Film: The Birmingham Centre for Film Studies, and is part of the 'Screening Rights' events series.

*Presented by B-Film: The Birmingham
Centre for Film Studies*

TIMETABLE

	Event	Category	Venue	Time	Price	Page
Monday 16 March	Civic Life/ Civic Science	Talk	Muirhead, G15	12.00–12.50	Free	29
	Sight, Sound and Mental Health	Talk	Arts, LR 201	12.00–14.00	Free	30
	Final Year Recitals	Concert	Bramall, Dome	12.30–14.00	Free	5
	Can Fiction Generate Social Change?	Talk	Arts, LT 7	12.30–14.00	Free	29
	AWAKE	C. Pieces	Bramall, Concert Hall	19.00	Free	11
Tuesday 17 March	e-x-p-a-n-d-i-n-g	Performance	Munrow, Sports Hall	12.00, 14.00 & 16.00	Free	21
	Imagining Mushrooms	C. Pieces	Barber, Lecture Theatre	12.30–13.30	Free	11
	LUCIA: Improving Vision in Ethiopia	Talk	Law, Senior Common Room	13.00–14.00	Free	30
	Maori Tattooed Heads	Talk	Medical School, LT 4	17.30–18.30	Free	33
	Lawrence of Arabia	Talk	Arts, LR 3	17.30–19.00	Free	33
	Dreams Time Free	Talk	Barber, Lecture Theatre	18.00–19.00	Free	31
	Music of the Stars	Talk	Poynting, Large Lecture Theatre	18.00–19.00	Free	32
	One Minute Movie Competition	Screening	Muirhead, G15	18.30–20.30	Free	23
	Ja, As Long As I Can	Talk	Barber, Concert Hall	19.30–21.30	Free	31
	Ladies of Leisure	Talk	Sport & Exercise, LT 2	12.00–14.00	Free	34
Wednesday 18 March	Nokyorsoxoff	Workshop	Venue TBC	12.00–15.00	Free	41
	Ten Books That Changed Medicine	Talk	Muirhead, CRL Seminar Room	13.00–14.00	Free	34
	How Many Breughels Make Four?	Talk	Barber Institute of Fine Arts	13.10–14.00	Free	35
	Arts History Speed Workshop	Tour	Barber Institute of Fine Arts	14.30	Free	41
	The Big Prison Debate	Talk	Arts, Main Lecture Theatre	17.00–19.00	Free	36
	In Search of Patrick Modiano	Talk	Arts, LT 3	17.30–19.00	Free	36
	Act Your Age Pub Quiz	Quiz	Staff House, Bratby Bar	18.00–20.00	Free	40
	Film & Human Rights	Screening	Muirhead, G15	18.30–21.30	Free	23
	Under The Night Stars	Workshop	Physics West, LR 103	19.00–21.00	Free	42
	Mathematical Lego	Talk	Watson, LT A	19.30–20.30	Free	37
Thursday 19 March	Sights and Sounds of Cosmic Rays	Demo	Muirhead, Atrium	11.30–14.00	Free	42
	Rituals of Disorder	Screening	32 Pritchatt's Road	12.00–14.00	Free	23
	Crippled with Nerves	Talk	Barber, Lecture Theatre	12.30–13.20	Free	37
	Making Sense of it all	Workshop	Nuffield, G17	12.30–13.45	Free	43
	BEAST: Evensong	Concert	Bramall, Dome	18.15, 19.00 & 19.45	Free	5
	Poetics and Outer Space	Talk	Ikon Gallery, B1 2HS	18.30–19.30	Free	38

	Event	Category	Venue	Time	Price	Page
Friday 20 March	Calligraphy Workshop	Workshop	Winterbourne House & Garden	10.00–16.00	£35	44
	The Cake Orchestra	Workshop	Computer Science, Atrium	12.00–14.00	Free	44
	Hunting the Mind's Wildlife	C. Pieces	Mech & Civil Eng, LT B23	12.30–14.00	Free	12
	Tesla Quartet	Concert	Barber, Concert Hall	13.10–14.00	Free	6
	Visualising Sound: Art & Music	Workshop	Barber Institute of Fine Arts	14.30–16.00	Free	45
Saturday 21 March	Visualising Sound	Tour	Barber Institute of Fine Arts	16.00–17.00	Free	45
	Girlhood	Screening	Electric Cinema, B5 4DY	18.00	£8/6	26
	Brass in Concert	Concert	Bramall, Concert Hall	19.30–21.30	£10/8/3	7
	Bioprospecting Birmingham	Workshop	BOM, B5 4EG	10.30–17.00	Free	45
	Images of Research	Talk	Birmingham Museum & Art Gallery, B3 3DH	12.00–15.00	Free	38
Sunday 22 March	The Creeping Garden	Screening	Electric Cinema, B5 4DY	13.00–15.00	£8/6	26
	The Age of Choirs	Concert	St George's Church, B15 3DQ	19.30–21.30	£10/8/3	8
	Celluloid City	Screening	Barber Institute of Fine Arts	12.00–16.00	Free	27
	Philharmonic Orchestra	Concert	Bramall, Concert Hall	15.00–18.00	£10/8/3	9

EVENTS OVER MULTIPLE DAYS

	Event	Category	Venue	Time	Price	Page
Mon 16 to Fri 20 March	Civic Science: Oliver Lodge	Exhibition	Muirhead, Atrium	9.00–18.00	Free	14
	The Sound of Sister Cities	Exhibition	Bramall, Foyer	9.00–18.00	Free	15
Mon 16 to Sun 22 March	Imagining Mushrooms	Workshop	Winterbourne House & Garden	12.00–14.00	Free	40
	Imagining Mushrooms	Exhibition	Winterbourne, Gallery	see listing	Free	14
	Images of Research	Exhibition	Birmingham Museum & Art Gallery, B3 3DH	see listing	Free	15
	New Art West Midlands	Exhibition	Barber Institute of Fine Arts Sat/Sun Opening Times:	10.00–17.00 11.00–17.00	Free	16
	Revolutionising Fashion	Exhibition	Barber Institute of Fine Arts Sat/Sun Opening Times:	10.00–17.00 11.00–17.00	Free	17
Weds 18 to Sun 22 March	Inheriting Rome	Exhibition	Barber Institute of Fine Arts Sat/Sun Opening Times:	10.00–17.00 11.00–17.00	Free	17
	Stones & Bones	Exhibition	Library of Birmingham, B1 2ND	see listing	Free	19
	Poetics of (Outer) Space	Exhibition	Perrott's Folly, B16 9AL	12.00–17.00	Free	18
	The Bitter Tears of Petra Von Kant	Performance	George Cadbury Hall, B29 6LU	19.30	£8/6	21



GIRLHOOD

Friday 20 March, 18.00
Electric Cinema, 47-49 Station Street,
B5 4DY £8 / £6
Book online at flatpackfestival.org.uk

B-Film and Flatpack Film Festival presents this one-off screening of *Girlhood*, the third feature from French director Céline Sciamma. The film charts the difficult family life and dim prospects of 16 year-old Marieme, who, after meeting three other free-spirited girls of her own age, quits school to join their gang, in search of freedom and fulfilment.

The screening is introduced by academic Dr Kate Ince, whose research interests include women's film-making in France in the 2000s.

Presented by B-Film and Flatpack Film Festival

**FLATPACK
FILM
FESTIVAL**

Flatpack Film Festival runs in venues
across Birmingham from 19 - 29 March.

For more information visit
www.flatpackfestival.org.uk

THE CREEPING GARDEN

Saturday 21 March, 13.00 - 15.00
Electric Cinema,
47-49 Station Street, B5 4DY
£8 / £6
Book online at flatpackfestival.org.uk

Once considered part of the fungi family, the slime mould's multi-coloured diversity and its ability to move towards food sources both capture the imagination and provoke debate. The Creeping Garden gathers a number of devotees including amateur mycologist Mark Pragnell and artist Heather Barnett (who cheerfully admits to taking slime moulds on holiday with her), underscoring their passion with gorgeous timelapse photography and music by Jim O'Rourke. A delightfully unexpected documentary.

Directors Jasper Sharp and Tim Grabham will take part in a discussion after the film along with artist Heather Barnett.

Presented by Flatpack Film Festival with support from University of Birmingham as part of a full day of fun and experiments with Slime Moulds on Saturday 21 March. For more information visit flatpackfestival.org.uk



CELLULOID CITY

Sunday 22 March, 12.00 - 16.00
Barber Institute of Fine Arts
R14
Free

The birthplace of celluloid and the Odeon circuit, Birmingham has always had a fondness for movie-going. During the 1940s the city boasted over 100 cinemas, from backstreet fleapits to glittering picture-palaces, and later it was the launchpad for South Asian cinema in the UK. As Flatpack prepares to embark on a journey exploring this unique history, the Barber Institute plays host to an afternoon of free screenings and activities allowing you to whizz through a century of cinema-going. Ingredients will include:

- ✦ A taste of silent cinema, with pianist Paul Shallcross accompanying a selection of classic comedy shorts;
- ✦ Cultural historian Rajinder Dudrah (University of Manchester) and guests revisit the birth of the Eastern Film Society and the early impact of Bollywood in Birmingham;
- ✦ Free screenings throughout the afternoon including *The Last Projectionist*, which recounts the shape-shifting history of the Electric Cinema.

Presented by Flatpack Film Festival in partnership with Arts & Science Festival

Above:
Aston Hippodrome.
Image courtesy Jean Turley
Opposite:
Girlhood [dir: Céline Sciamma]

TALKS

CIVIC LIFE/ CIVIC SCIENCE: OLIVER LODGE AND BIRMINGHAM

Lecture by Dr James Mussell, Associate Professor, University of Leeds

Monday 16 March, 12.00 – 12.50
Lecture Theatre G15, Muirhead Tower
R21

Free, booking required. Please email bookspecial-collections@bham.ac.uk

In 1900 Oliver Lodge, at the invitation of Joseph Chamberlain, became the first Principal of the new University of Birmingham. Lodge was Professor of Physics at Liverpool and, although wary, saw in the new university an opportunity to put his educational ideas into practice. Lodge led the University for its first two decades, but his tenure was mixed. He complained about the administrative burden, but successfully oversaw the establishment of the University at Edgbaston. These years brought tragedy, as Lodge's youngest son, Raymond, died in the War, but also success, as Lodge himself became one of the most famous figures of his day.

Refreshments served afterwards in Muirhead atrium alongside the exhibition *Civic Science: Oliver Lodge and Birmingham* (3 February – 18 May 2015)

Presented by Special Collections: Cadbury Research Library

CAN FICTION GENERATE SOCIAL CHANGE?

Monday 16 March, 12.30 – 14.00
Arts Building, Lecture Room 7,
2nd Floor R16

Free, booking required. Book online at fiction-and-social-change.eventbrite.co.uk

Has a work of fiction ever changed the way you see the world around you? Could this change in perception influence the way you or others interact with society? Is a work of fiction influenced by its social context, or is it the other way around?

Join this lively debate based on the question 'can fiction generate social change?' that formed the topic of the University of Birmingham's Postgraduate Writing Competition 2015. Our panel will be welcoming questions and comments from the audience and the event will celebrate the winners of this year's Writing Competitions with a short awards presentation.

To submit a question to the panel in advance please email the College of Arts and Law Student Experience Team on calen-gagement@contacts.bham.ac.uk.

Presented by College of Arts & Law

SIGHT, SOUND AND MENTAL HEALTH

Monday 16 March, 12.00 – 14.00
Arts Building, Lecture Room 201 ♡ R16
❖ Free, booking required. Book online at sight-sound-and-mental-health.eventbrite.co.uk

We are surrounded by images and sounds, and these usually are a reliable guide to the world. But on some occasions we hear voices when nobody is around, and see things that are not there. Lisa Bortolotti, philosopher of psychology and psychiatry at Birmingham, chairs a lunchtime session on visual and auditory experiences and their impact on mental health.

Speakers include: Sam Wilkinson (Philosophy, Durham University) on varieties of verbal hallucinations; Amy Hardy (Psychology, King's College London) on the role of imagery in everyday life; and Ema Sullivan-Bissett (Philosophy, Birmingham) on beliefs of alien abduction.

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

LUCIA: WORKING WITH PARTNERS IN ETHIOPIA TO IMPROVE VISION, EDUCATION & LIVES OF COMMUNITIES

Tuesday 17 March, 13.00 – 14.00
Senior Common Room,
2nd Floor, Law Building ♡ R1
❖ Free

University of Birmingham staff established the charity LUCIA (Life Uplifted by Change in Africa) to improve the lives of women and children in Ethiopia.

Trustees Sylvia Gardiner (BEM) and Dr Janet Clarke will discuss how LUCIA has worked in partnership with UK charity Vision Aid Overseas to improve the eyesight of primary school children at Saria School in Ethiopia. The session will also look at how LUCIA works with local NGOs to build libraries and improve the health of children and communities.

Presented by LUCIA



ARTIST TALKS

AT

THE BARBER

DREAMS TIME FREE

Tuesday 17 March, 18.00 – 19.00
The Barber Institute of Fine Arts,
Lecture Theatre ♡ R14
❖ Free, booking recommended.
Book online at dreams-time-free.eventbrite.co.uk

Mat Jenner will talk about his exhibition *Dreams Time Free*, currently showing at Grand Union. The exhibition includes *Foam*, a mass collection of one-off 12" dub plate records by 115 contemporary artists, which visitors are invited to listen to in the gallery.

Mat will discuss some of the ideas behind the collection and how it links with other works in the show.

Presented by Cultural Engagement in partnership with Grand Union

GRAND UNION



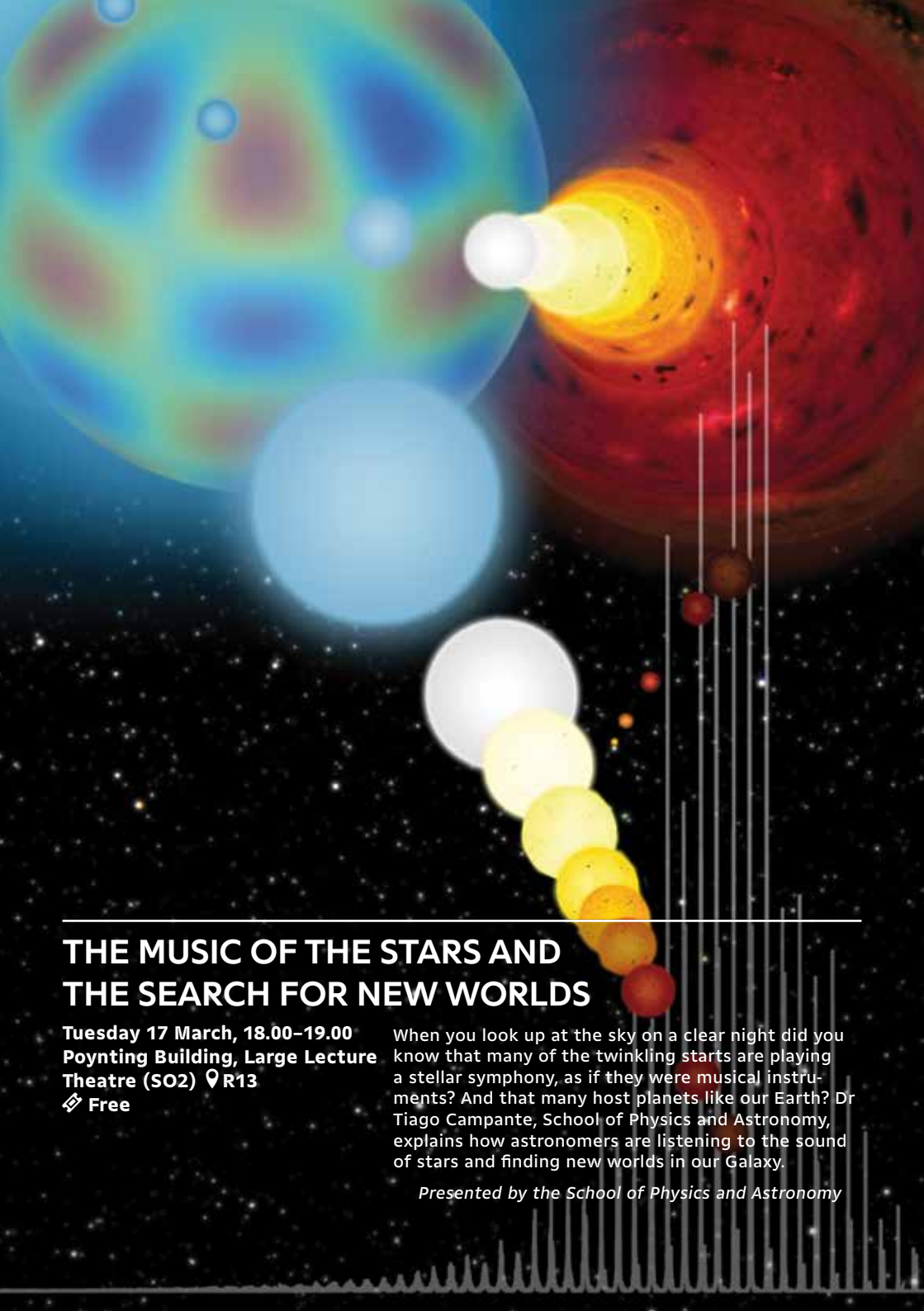
JA, AS LONG AS I CAN

Tuesday 17 March, 19.30 – 21.30
The Barber Institute of Fine Arts,
Concert Hall ♡ R14
❖ Free, booking required. Please visit www.ikon-gallery.org to book online or call Ikon on 0121 248 0708

Join Ikon Gallery for a rare opportunity to hear Norwegian artist A K Dolven talk about her work. This special evening, hosted by The Barber Institute of Fine Arts, begins with a fifteen minute performance of vinyl sound piece *JA, As Long As I Can* (2014), created by Dolven and US poet John Giorno.

Presented by The Barber Institute of Fine Arts in partnership with Ikon Gallery

IKON



THE MUSIC OF THE STARS AND THE SEARCH FOR NEW WORLDS

Tuesday 17 March, 18.00–19.00
Poynting Building, Large Lecture Theatre (SO2) R13
Free

When you look up at the sky on a clear night did you know that many of the twinkling stars are playing a stellar symphony, as if they were musical instruments? And that many host planets like our Earth? Dr Tiago Campante, School of Physics and Astronomy, explains how astronomers are listening to the sound of stars and finding new worlds in our Galaxy.

Presented by the School of Physics and Astronomy

MAORI TATTOOED HEADS

Tuesday 17 March, 17.30 – 18.30
Medical School, Lecture Theatre 4 B1
Free, booking recommended
Book online at [maori-tattooed-heads.eventbrite.co.uk](https://www.eventbrite.co.uk)

From the 1700s to late 1800s, explorers went all around the world collecting human remains to send back to the UK, where individuals and museums were keen to add to their collections. In time, these were often donated to medical schools. At Birmingham, we have a collection of skulls from around the world, which we are keen to repatriate.

In October 2013, the University hosted a delegation of Maori elders and held a formal handover ceremony to return Maori skulls to New Zealand. Dr. June Jones, Head of Repatriation, will discuss the issues raised by repatriation, using the Maori repatriation as a case study. The handover ceremony was filmed, so the presentation will include excerpts from the film, demonstrating the spiritual importance of the ceremony to all in attendance. June continues her collaboration with the Maori repatriation centre in New Zealand, and will discuss the lasting impact of respecting differing cultural perspectives about the treatment of the dead.

Presented by School of Health and Population Sciences

LAWRENCE OF ARABIA: THE MAN, THE MYTH AND THE MOVIE

Tuesday 17 March, 17.30 – 19.00
Arts Building, Lecture Room 3 R16
Free

Join Dr John Peaty, International Secretary for the British Commission for Military History, for this lecture as part of the University of Birmingham's War Studies Seminar programme.

Peaty has lectured widely on military history to both specialist and non-specialist audiences both in the UK and abroad. He has contributed to volumes of essays and has published articles on military history. Dr Peaty is an inveterate battlefield tourer.

Presented by the Centre for War Studies





LADIES OF LEISURE: A VISUAL EXPLORATION OF WOMEN IN SPORT

Wednesday 18 March, 12.00 – 14.00
 Sport and Exercise Sciences, Lecture Theatre 2, Ground Floor Y14
 ♦ Free, booking recommended.
 Book online at [ladies-of-leisure.eventbrite.co.uk](https://www.eventbrite.co.uk)

What is a woman in sport? Media exposure of the 2014 Women's International football game at Wembley, Sport England's ongoing pledge to persuade "more women to adopt lifelong sporting habits", and consistent debate over the weight and image of female role models in the public eye have all put 'women in sport' in the spotlight and contributed to the pressure to be active, and to look and feel good. But, where has this come from? Is it for every age group?

This illustrated talk, featuring early video footage of female Olympic participation through to magazine covers of active celebrities, will guide audiences through the sights and sounds of 'ladies of leisure'. The talk will be followed by a discussion exploring the impact and value of the current 'women in sport' movement.

Presented by Sport, Exercise and Rehabilitation Sciences

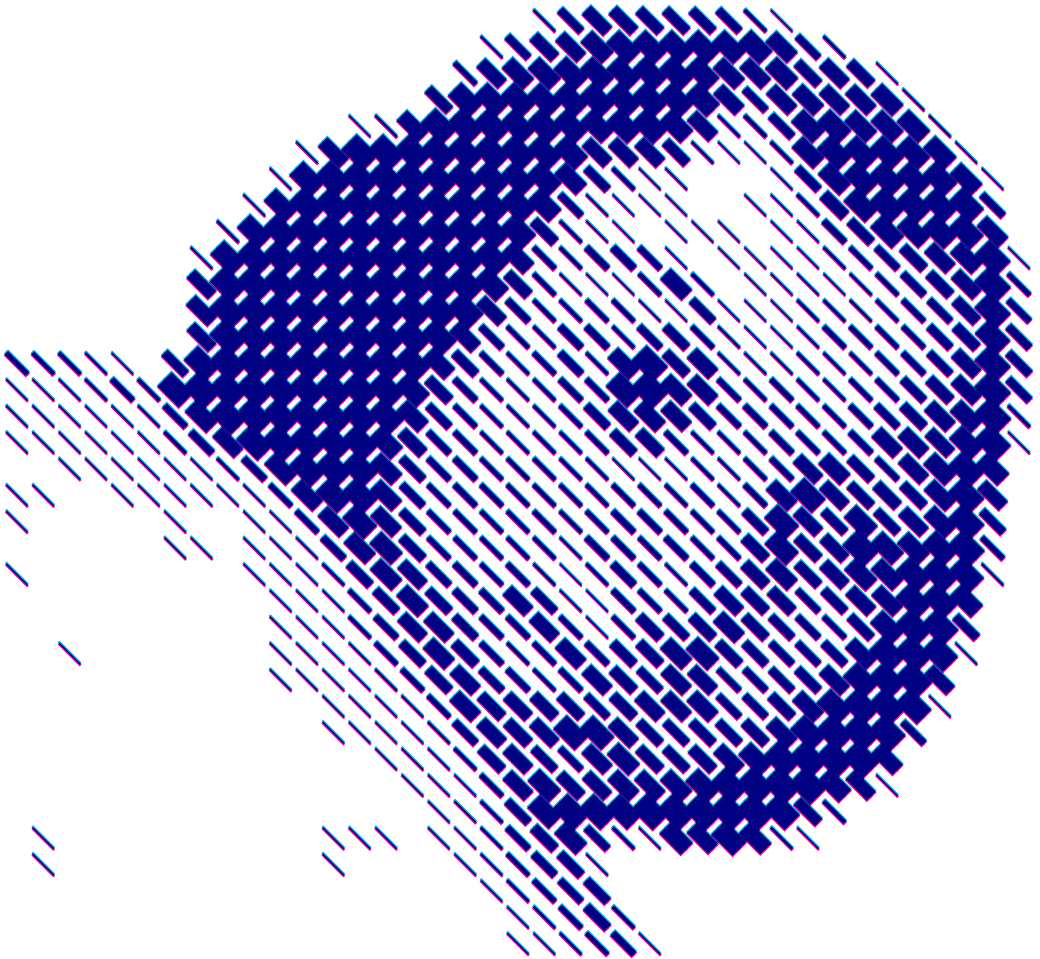


TEN BOOKS THAT CHANGED MEDICINE

Wednesday 18 March, 13.00 – 14.00
 Muirhead Tower, Cadbury Research Library, Chamberlain Seminar Room R21
 ♦ Free, booking required. Please email bookspecial-collections@bham.ac.uk

Drawing on ten books from the Cadbury Research Library, Professor Jonathan Reinartz, Director of The History of Medicine Unit, University of Birmingham, will discuss key moments in the history of medicine, involving bones, brains, hospitals and hygiene, from the 16th to the 20th centuries.

Presented by The History of Medicine Unit in partnership with Special Collections: Cadbury Research Library



HOW MANY BREUGHEL'S MAKE FOUR?

Wednesday 18 March, 13.10 – 14.00
 Barber Institute of Fine Arts R14
 ♦ Free

Find out more about the behind the scenes world of art conservation with paintings conservator Ruth Bubb.
 This lecture will discuss the recent conservation and technical examination of the Barber Institute's *Two Peasants Binding Faggots* by Pieter Brueghel the Younger, undertaken by Ruth and her conservation team.

Presented by The Barber Institute of Fine Arts



IN SEARCH OF PATRICK MODIANO

Wednesday 18 March, 17.30 – 19.00
Arts Building, Lecture Theatre 3 ♣ R16
♣ Free, booking required. Book online at patrick-modiano.eventbrite.co.uk

An illustrated talk presenting the work of 2014 Nobel Prize Winner Patrick Modiano. When French writer Patrick Modiano was awarded the Nobel prize for literature last October, few people in Britain had heard his name. And even in France, some expressed surprise at the choice of the Swedish Academy. Modiano was born in 1945. His work demonstrates the significance of that date. He was recently described as 'the poet of the Occupation and a spokesman for the disappeared', which points to two crucial dimensions of his work: his distinctive style and the strong human empathy that is at the root of his writing.

Most of his books feature a mystery which never quite gets solved. His characters are haunted by the past but it is very much in the present that his readers are invited to consider the damaging effects of time and memory. Endlessly walking the streets and less-known corners of Paris in search of an elusive but important answer is his favourite approach, mirrored in the ambiguous narratives of his stories.

This talk will be an opportunity to explore what makes the depth and the current relevance of his work: in short we will begin to show why his writing – which also includes screenplays such as *Lacombe Lucien* – is so compelling.

Presented by the Department of Modern Languages (French Studies)

THE BIG PRISON DEBATE

Wednesday 18 March, 17.00 – 19.00
Arts Building, Main Lecture Theatre ♣ R16
♣ Free, booking recommended. Book online at big-prison-debate.eventbrite.co.uk

This panel session bringing together University of Birmingham academics from a range of disciplines with prison professionals, will comprise of brief presentations on the efficacy of various facets of 'prison life' followed by an interactive discussion led by questions from the audience.

Presented by School of Geography, Earth and Environmental Sciences

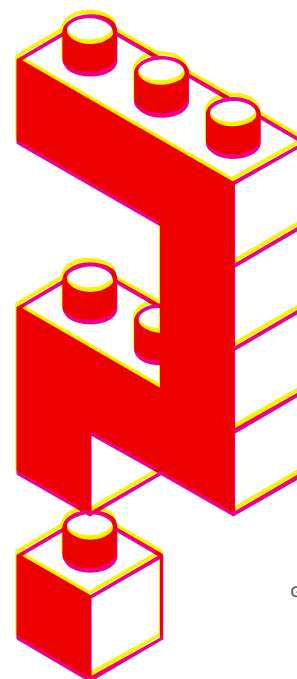
MATHEMATICAL LEGO

Wednesday 18 March, 19.30 – 20.30
Watson Building, Lecture Theatre A ♣ R15
♣ Free

Plants can undergo incredible shape changes and movement, from leaves following the sun, to the Venus flytrap catching its prey, to trees growing over 100m tall. To better understand and control these shape changes we need to understand the behaviours of a single cell and this is where mathematical modelling comes in! It's a bit like using small individual Lego bricks to build a larger physical model; we can examine the impact of changes to individual cells on the shape of the whole plant.

Join Dr Rosemary Dyson for this Birmingham Popular Mathematics Lecture shedding light on the ways mathematical modelling has allowed us to find out lots of interesting things about how plants work and has transformed the way we study plant growth, forming the basis of research undertaken around the world.

Presented by the School of Mathematics



George McKay, 2011
Photo by Dubber

CRIPPLED WITH NERVES: THE CURIOUS CASE OF POLIO AND POPULAR MUSIC

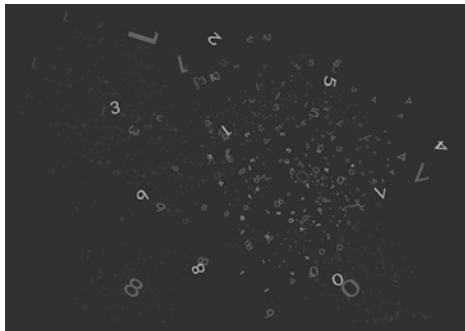
Thursday 19 March, 12.30 – 13.20
The Barber Institute of Fine Arts, Lecture Theatre ♣ R14
♣ Free, booking recommended. Book online at crippled-with-nerves.eventbrite.co.uk

Ian Dury, Steve Harley, Neil Young, Joni Mitchell, Donovan, Israel Vibration, Staff Benda Bilili: all marked by polio. How has that childhood experience influenced their music, (how) have they sung about it, what does the disabled pop body look like on stage, have they been activists or advocates in disability rights movements, what might there be specific to polio and popular music?

George McKay is Professor of Media Studies at the University of East Anglia and an Arts & Humanities Research Council Leadership Fellow for the Connected Communities Programme. He writes about alternative cultures, and the cultural politics of popular music, festivals and gardening. His most recent book is *Shakin' All Over: Popular Music and Disability* (University of Michigan Press, 2013), while forthcoming this summer is his collection *The Pop Festival: History, Music, Media, Culture* (Bloomsbury). His website is georgemckay.org.

Presented by Cultural Engagement





POETICS AND OUTER SPACE

Thursday 19 March
18.30 – 19.30 (meet at 17.00 for
installation visit prior to talk)
Perrott's Folly, Waterworks Road,
Edgbaston, B16 9AL
 ♦ **Free, booking required. Please visit**
www.ikon-gallery.org to book online or
call Ikon on 0121 248 0708

Poetics of (Outer) Space (2015) is a multi-channel sound installation by Caroline Devine that explores the natural acoustic resonances of stars and the orbits of newly discovered exoplanets.

Join artist Caroline Devine from 18.30 as she discusses her long term residency and collaboration with the Solar and Stellar Physics Group at the University of Birmingham. This talk is chaired by Professor Bill Chaplin, School of Physics and Astronomy at University of Birmingham

The event begins from 17.00, with a chance to experience Devine's installation, *Poetics of (Outer) Space*.

Presented by Caroline Devine in partnership with the Leverhulme Trust, University of Birmingham, and Ikon Gallery

IKON

IMAGES OF RESEARCH

Saturday 21 March, 12.00 – 15.00
Birmingham Museum and Art Gallery,
Chamberlain Square, B3 3DH
 ♦ **Free**

How do you sum up an entire research project in just one image? That's the challenge that we have set postgraduate researchers from the University of Birmingham.

Images that represent the research projects of University postgraduate researchers will have been on display for the whole of the Arts and Science festival week, and this talk is your chance to meet the people behind the pictures.

Researchers will be on hand for the duration of the event to talk about their images and the story of the research behind the image. At the same time, a panel of judges from the University will be assessing their favourite images and visitors are encouraged to vote for their favourite image too. The two winners will be announced at the end of the event at 3pm.

Presented by the University Graduate School in partnership with Birmingham Museum and Art Gallery



Portrait of the Female Art Teacher, Hannah Hames, Senior Lecturer in Art & Design at Newman University (overall winner 2014)

WORKSHOPS

QUIZZES

DEMOS

TOURS

IMAGINING MUSHROOMS

Monday 16 – Friday 20 March
12.00 – 14.00 daily
Winterbourne House & Garden ♡ G12
💎 Free

Join Winterbourne artist in residence, Anne Parouty, at lunchtimes (12–2pm) throughout the festival and make your own mushroom inspired cyanotype.

Cyanotype is a photographic printing process that produces a cyan-blue print. Engineers used the process well into the 20th century as a simple and low-cost process to produce copies of drawings, referred to as blueprints.

Don't forget to check out Winterbourne's tea room, where there'll be mushrooms on the menu!

*Presented by Anne Parouty and
Winterbourne House & Garden*



*Parasol Mushroom,
Anne Parouty, 2014*

ACT YOUR AGE PUB QUIZ

Wednesday 18 March, 18.00 – 20.00
Staff House, Bratby Bar ♡ R24
💎 Free

Do you think in the same way as you did 10 years ago? Do you think your decision-making will improve with age and experience? The strange thing is that most psychologists assume that cognition doesn't change much between the ages of 20 and 65!

You can help us put this to the test by taking part in the Act Your Age pub quiz. We will test your decision-making, your general knowledge and your cognitive ability, all with fun games and quiz questions, including sight and sound themed rounds. You can learn about how psychologists do their research and the kinds of tests we use to understand the mind and the brain. Then we will see whether youth or experience is the winning ingredient!

Presented by the School of Psychology

NOKYORSOXOFF

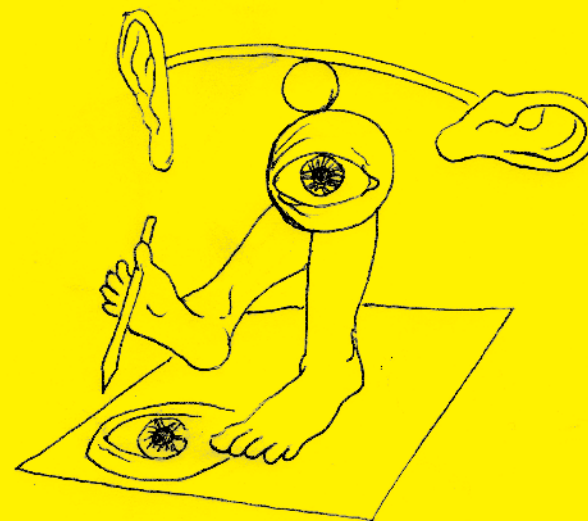
Wednesday 18 March, 12.00 – 15.00
Venue TBC, please refer to website
💎 Free

Explore drawing in a new way. Join artist Saranjit Birdi and have a go at drawing a human eye – with your foot!

Experience what it is like to learn how to coordinate visual and motor movements – a challenge toddlers and many stroke and trauma survivors face. Using foot-drawing, the artist has been collaborating with Dr Pia Rotsthtein, School of Psychology, and conducting workshops with stroke survivors designed to help them to regain control over their bodies. Drawings by the group's participants will be on display at the event.

Saranjit Birdi, who is also a dancer, has successfully trained different body parts including his feet to draw accurately. He will also be drawing at the event as well as be seen executing drawings of the University buildings during the Arts & Science festival week. www.axisweb.org/p/saranjitbirdi/

*Presented by Saranjit Birdi and the School
of Psychology*



ART HISTORY SPEED WORKSHOP

Wednesday 18 March, 14.30
Barber Institute of Fine Arts ♡ R14
💎 Free, booking essential. To book
your place, please contact: 0121 414
2261 or email education@barber.org.uk

Expand your knowledge of art and explore the theme of Sight and Sound in the galleries at the Barber Institute, with our fifth Speed Workshop!

A bit like speed dating, you'll spend a few minutes up close and personal with a work of art, with one of UoB's very own art historians on hand to help you get to grips with what it's all about, before moving on to the next one. Unlike speed dating, you might find you don't want to run a mile at the end, but instead linger a bit longer in the gallery and take in some more of this delightful collection.

*Presented by the Department of Art
History, Film and Visual Studies*

UNDER THE NIGHT STARS

A poetry writing workshop using the night sky as inspiration

Wednesday 18 March, 19.00 – 21.00

Physics West, Lecture Room 103

📍 R8

💎 Free, booking required. Please visit: under-the-night-stars.eventbrite.co.uk

Join poets Nadia Kingsley and Emma Purshouse as they lead you through a series of writing activities designed to get your mind wandering and your pen moving. All ages welcome. This is an outdoor activity so wrap up warm. It will not matter if it is cloudy, raining or the light pollution is severe. These will all be adapted to, within the workshop. Bring pen and paper – and binoculars, if you have them. The University's Astronomical Society will also be on hand with telescopes and tips for effective star gazing.

Presented by Cultural Engagement in partnership with Nadia Kingsley and Emma Purshouse

SIGHTS AND SOUNDS OF COSMIC RAYS

Thursday 19 March, 11.30 – 14.00

Muirhead Tower, Atrium 📍 R21

💎 Free

Join the University's Particle Physics Group to see and hear the cosmic rays as they make their way through the atmosphere. The group's *Spark Chamber* will be exhibited and offers audiences an opportunity to discover the world of elementary particles and its connection to the everyday world!

Presented by the Particle Physics Group



*Image courtesy of Special Collections,
University of Houston Libraries*

MAKING SENSE OF IT ALL

Thursday 19 March, 12.30 – 13.45

Nuffield, Lecture Room G17 📍 R9

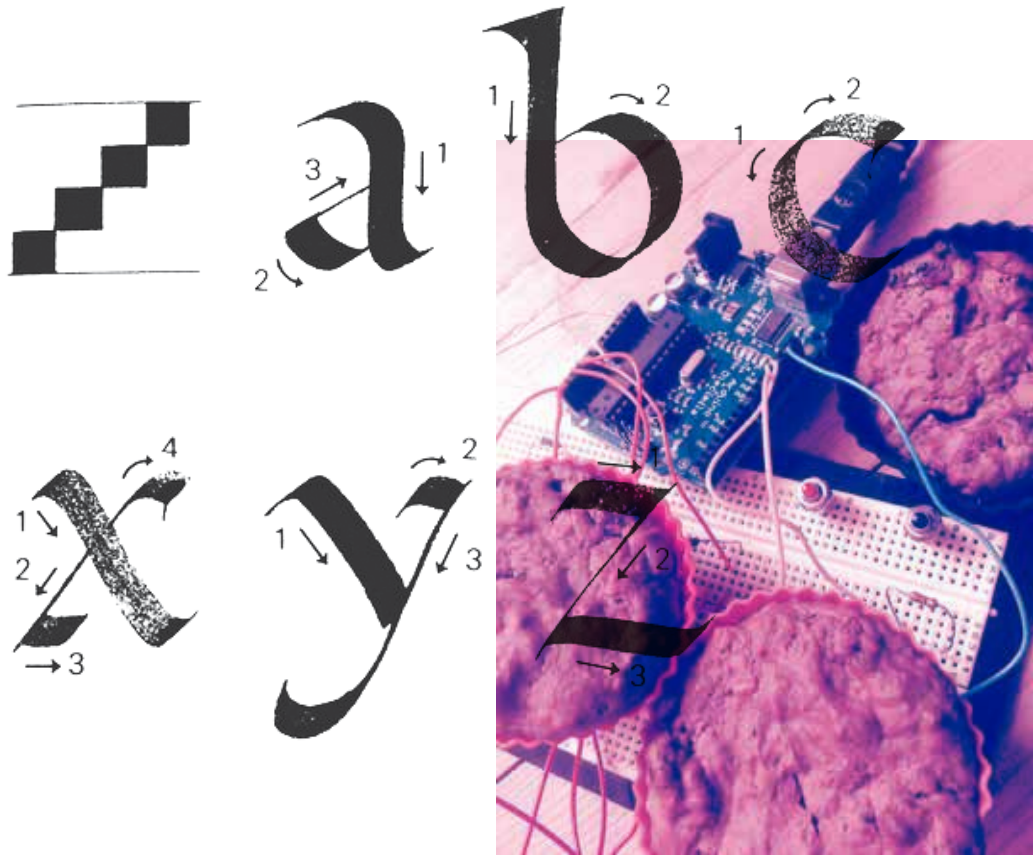
💎 Free, booking recommended. Please visit: making-sense.eventbrite.co.uk

Our sense of vision is designed to allow us to access a wealth of information – from the text on this page to the stars in the sky. It has significance in informing us about daily events allowing us to make links with previous visual experiences and as such it is often referred to as an integrating sense – or a sense that helps us make sense of it all!

What though of people who have reduced information through their sense of vision – how might they draw on their other senses to help them 'make sense of it all'? In this highly interactive workshop we will explore the role of vision in our learning and development and consider how other senses provide us with information about the world when our vision is impaired.

This includes opportunities for participants to: explore the role of our senses in providing information about the world in the absence of consistent visual information; examine recent technologies that have been designed to reduce barriers to learning and participation for people with visual impairment (including an opportunity to use Google Glass); find out about strategies that can be drawn upon to promote inclusive practice.

Presented by the School of Education and the School of Computer Science



CALLIGRAPHY WORKSHOP

Friday 20 March, 10.00 – 16.00
 Winterbourne House & Garden ♡ G12
 ♦ £35 for full day workshop with a break for lunch (not provided). Please call Winterbourne House & Garden on 0121 414 3003 to book your place

A practical calligraphy workshop presented in association with the Pen Museum. Join experts and hone your calligraphy skills or learn the basics from scratch.

Presented by Winterbourne House & Garden in association with the Pen Museum

THE CAKE ORCHESTRA

Friday 20 March, 12.00 – 14.00
 Computer Science, Atrium ♡ Y9
 ♦ Free

The cake orchestra is a cake-technology-music interface for people without much musical ability but with an interest in technology and cakes. It's made up of several sets of cakes and sensors, each associated with a different instrument noise. Moving the cakes around on the playing surface triggers the instruments. Guaranteed to be more edible than a real orchestra!

Presented by the School of Computer Science

VISUALISING SOUND: ART & MUSIC WORKSHOP

Friday 20 March, 14.30 – 16.00
 Barber Institute of Fine Arts ♡ R14
 ♦ Free, booking essential. To book your place, please contact: 0121 414 2261 or email education@barber.org.uk

Explore sound and instrumental technique with leading professional musicians Jack McNeill and Ulrich Heinen, discovering the collection through improvisation. Working with a visual artist, create your own music through drawing, creating graphic interpretations of paintings that will, in turn, be used by the musicians to create a unique and original sound tour.

The workshop offers the chance to explore familiar Barber paintings in a new way and create a truly original experience. Open to adults only.

The workshop will be led by composer & educator Jeremy Clay: jeremyclaymusic.com.

Presented by the Barber Institute of Fine Arts

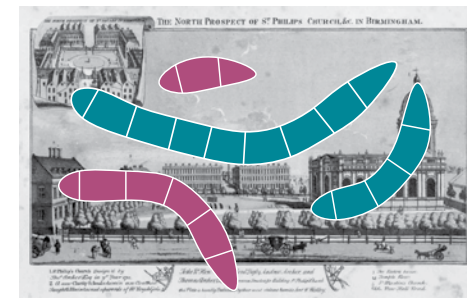
VISUALISING SOUND: TOUR

Friday 20 March, 16.00 – 17.00
 Barber Institute of Fine Arts ♡ R14
 ♦ Free, booking essential. To book your place, please contact: 0121 414 2261 or email education@barber.org.uk

Jack McNeill and Ulrich Heinen perform the compositions produced by participants in the preceding workshop, creating a sound tour of the Barber's collection. Experience the paintings as you never have before.

The sound tour is open to all – you do not need to have participated in the workshop to attend.

Presented by the Barber Institute of Fine Arts



BIOPROSPECTING BIRMINGHAM

Saturday 21 March, 10.30 – 17.00
 Birmingham Open Media,
 1 Dudley Street, B5 4EG
 ♦ Free

Bacteria and microbes are all around us, on us and within us: they are often the source for new technologies and medicines. Using ingredients sourced from local shops and prepared with items regularly found in the kitchen, Dr Mel Grant, Lecturer in Biological Sciences in the School of Dentistry and BOM fellow, will use 'DIY Bio' methods to grow environmental bacteria, letting the microbes illustrate the sights of Birmingham. The week long workshop will be held in the gallery space at Birmingham Open Media, a new space for art, technology and science.

Presented by Birmingham Open Media in partnership with University of Birmingham

**BIRMINGHAM
 OPEN
 MEDIA**

COMING SOON

The University of Birmingham is home to a diverse cultural offer which includes public museums, galleries, archives, collections, libraries, and cultural venues. See below for details of future projects and events, both on campus and beyond:

LUNCHTIME LECTURES

Join University of Birmingham academics on the last Wednesday of each month for lunchtime talks at the Library of Birmingham exploring origins from wide-ranging research perspectives. Visit libraryofbirmingham.com for more information.

SCREENING RIGHTS FILM FESTIVAL, 9–12 JULY 2015

B-Film presents the inaugural *Screening Rights Film Festival*, a three-day programme of film and discussion at mac Birmingham. *Screening Rights* aims to be a space to inspire and develop debates on the relationships between film, human vulnerability and social change. For more information, please visit screeningrights.org.

For details of all University of Birmingham events, please visit www.birmingham.ac.uk/events or pick up a copy of our What's On Guide.

CREDITS

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

We would like to thank all of the individuals involved in the planning, promotion and delivery of festival events across campus. Special thanks to: Ian Grosvenor, Laura Milner, Clare Mullett, Catherine Maguire, Andy Tootell, Rebecca Vowles, and Catrin Evans.

We would also like to thank our festival partners: Flatpack Film Festival, Grand Union, Havill & Travis, Ikon Gallery, National Public Housing Museum (Chicago), and STILL Walking Festival.

Design: An Endless Supply

CONTACT

✉ artsandscience@contacts.bham.ac.uk
🌐 birmingham.ac.uk/artsandsciencefestival
f facebook.com/CultureUoB
t twitter.com/CultureUoB

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32 Pritchatt's Road
University of Birmingham
Edgbaston, B15 2TT

UNIVERSITY OF
BIRMINGHAM

— 224 FREE —
**MASTERS
PLACES**
FOR 2015 ENTRY



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OPEN DAY

Wednesday 18 March 2015

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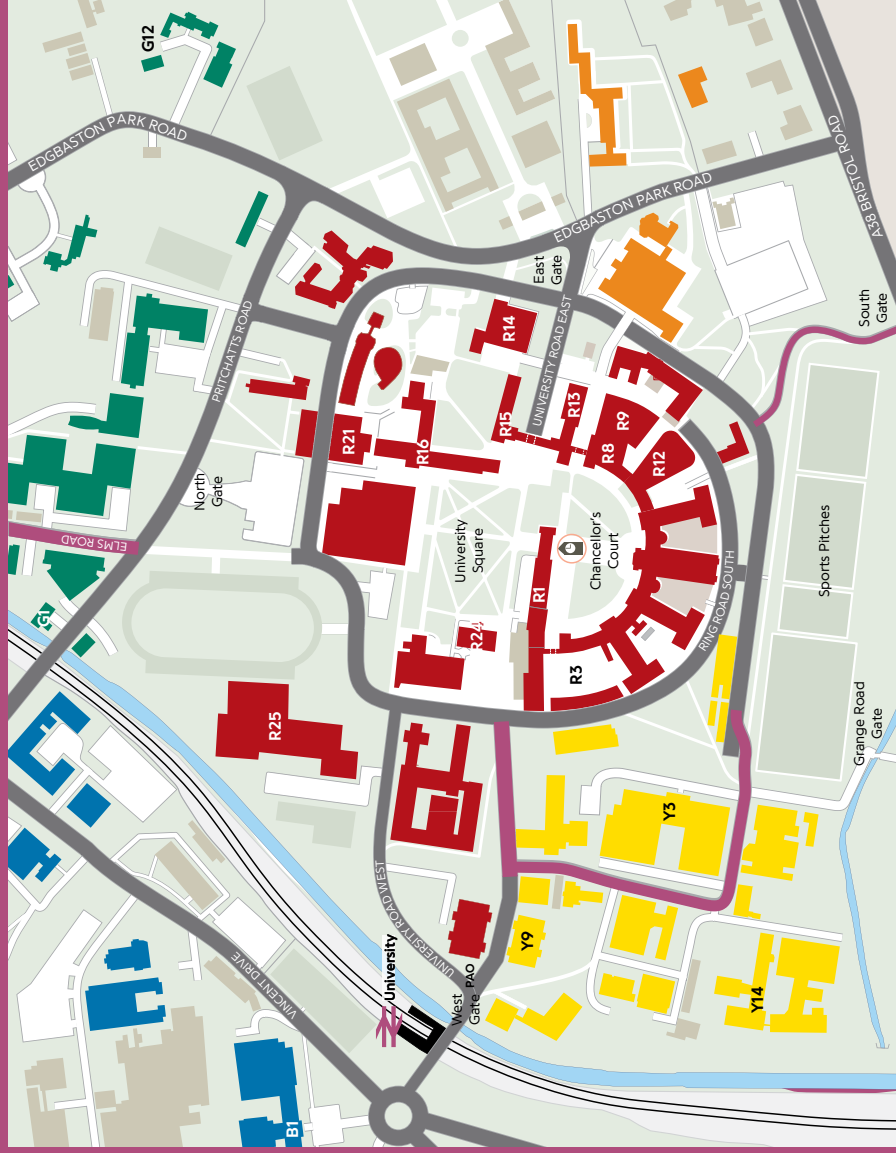
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- B1 Medical School
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- R8 Physics West
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- R12 Bramall Music Building
- R13 Poynting Building
- R14 Barber Institute of Fine Arts
- R15 Watson Building
- R16 Arts Building
- R21 Muirhead Tower
- R24 Staff House, Bratby Bar
- R25 Munrow Sports Centre
- G1 32 Pritchatts Road
- G12 Winterbourne House & Garden
- Y3 Mechanical and Civil Engineering Building
- Y9 Computer Science
- Y14 Sport & Exercise Sciences



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