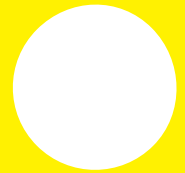


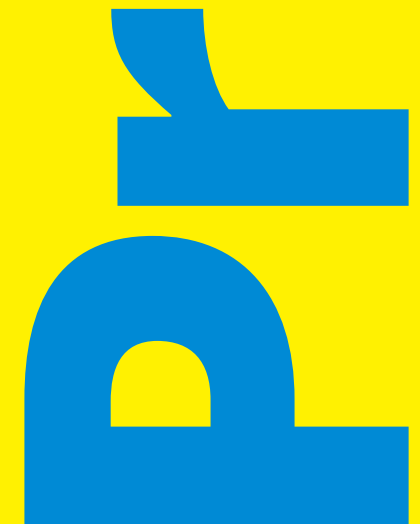
Friday  
5pm–9pm  
**Admission:**  
Free  
**Location:**  
Trinity's  
Front Square



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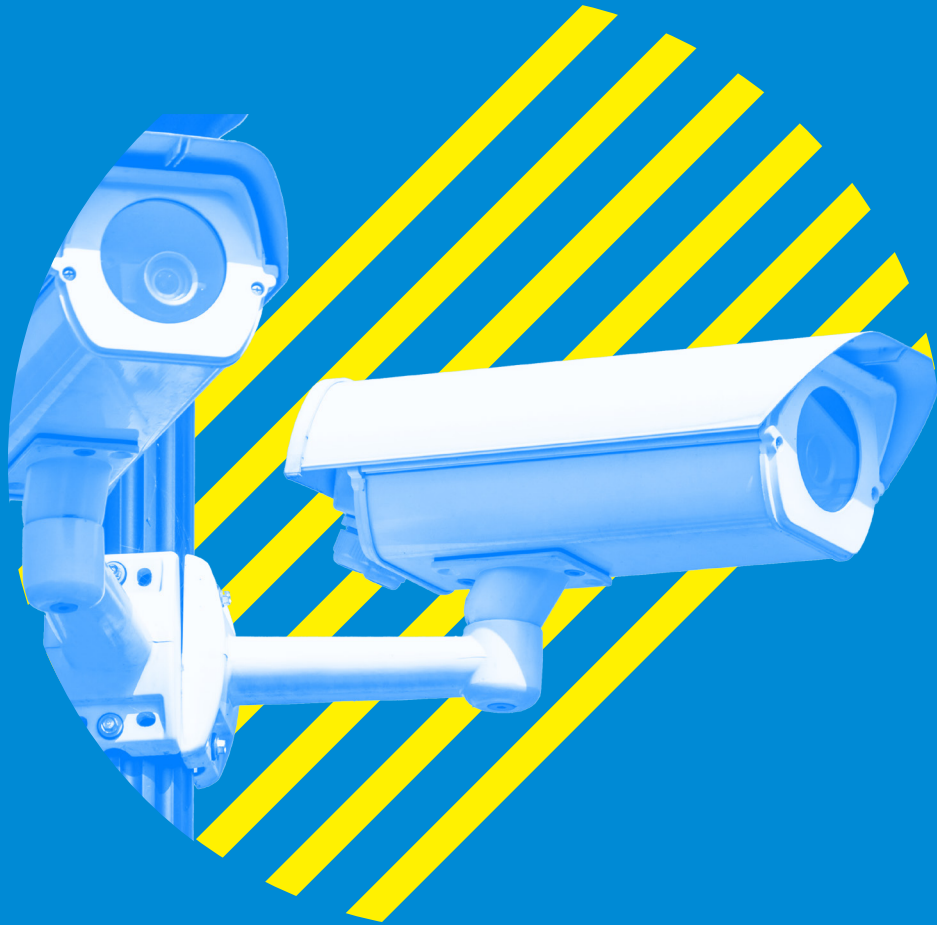


**Research  
uncovered  
at Trinity  
College  
Dublin**



THIS EUROPEAN RESEARCHERS'  
NIGHT PROJECT IS FUNDED BY THE  
EUROPEAN COMMISSION UNDER THE  
MARIE SKŁODOWSKA-CURIE ACTIONS.





#### WHAT IS THIS ALL ABOUT?

**Welcome to Probe,  
an evening where together,  
by participating and  
connecting to cutting-edge  
research at Trinity College  
Dublin, we can delve  
into society's big issues.**

This event is part of EU Researchers' Night and an opportunity for everyone to participate in conversations about how we can make things better — locally and globally. We hope you enjoy!

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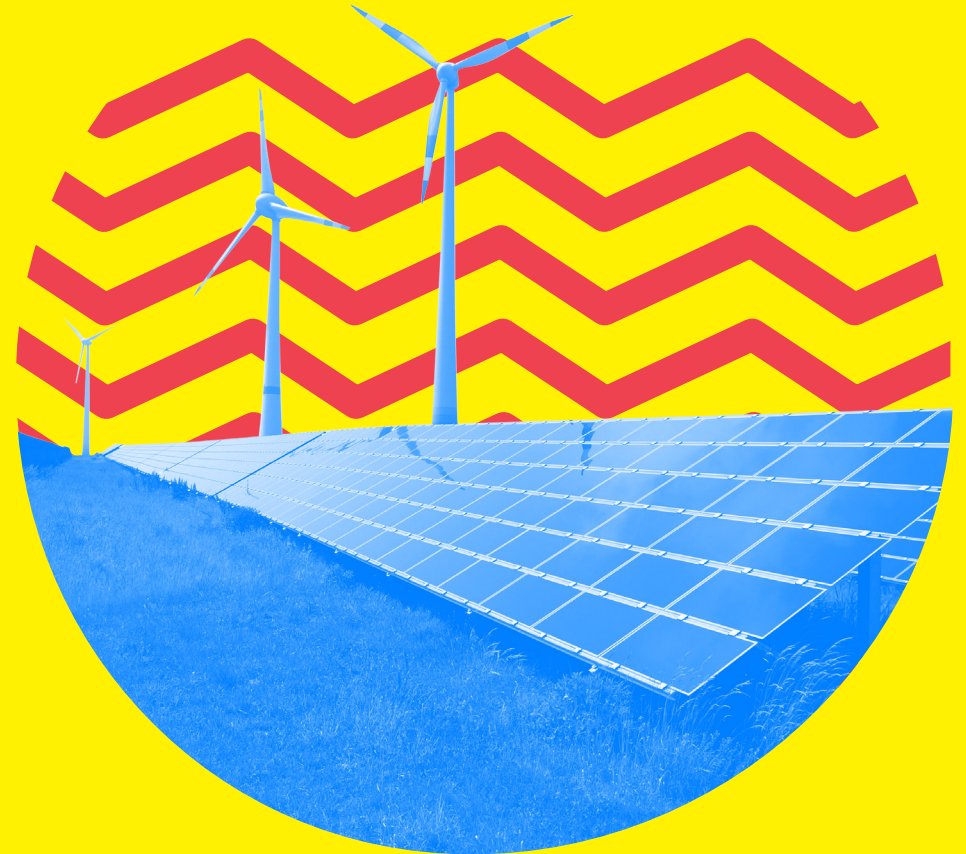
**Douglas Hyde Gallery**

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# Get Personal

## TIMES

**5pm–7pm**

### **Message Banking**

Tell us the pet names, in-jokes, and personal phrases that make up your own unique vocabulary, and find out how Caroline Jagoe is saving them for people who are losing their ability to speak.

**5pm–8pm**

### **Brain**

Researchers from Trinity College Institute of Neuroscience will offer you the opportunity to hook up to an EEG machine and examine your brainwaves.

**5pm–8pm**

### **Pupils**

Are the eyes the window to the brain? Neuroscientists will demonstrate pupil dilation and the neural mechanisms this relates to.

**5pm–8pm**

### **Sign Language**

Find out how Lorraine Leeson's analysis of Dara Ó Briain and Chris Hadfield's hand movements can give us a better understanding of sign language and how we interpret it.

**5pm–8pm**

### **Lungs**

Find out how Seonadh O'Leary is using the body's own immune system to fight tuberculosis, and look at lung samples that reveal how smoking impacts the disease.

**5pm–8pm**

### **Learning**

Take part in research on learning a second language, and discover how the brain learns new information.

**5pm–8pm**

### **EU Corner**

Find out about the Marie Skłodowska Curie Actions, and how they fund vitally important research across the EU, with the Irish Universities Association.

**5pm–8pm**

### **HEADS**

The HEADS project (Head protection: a European network for Advanced Designs in Safety), aims to reach a new level of understanding of sport-related head injury and how it can be prevented. Try on some different types of helmets, learn how accident reconstruction helps researchers understand the factors influencing head injuries, and see how helmets are tested.

**7.30pm–8pm**

### **Women Are Boring**

WAB is a blog dedicated to featuring fascinating research by interesting women. Co-founded in May 2016 by Catherine Connolly and Grace McDermott, who wanted to hear more from women in all areas of academia. WAB will be doing short vox pops with women in research during Probe to ask them why their research matters, what inspires them, and what's the one thing people should know about life as a researcher.

**5pm–8pm**

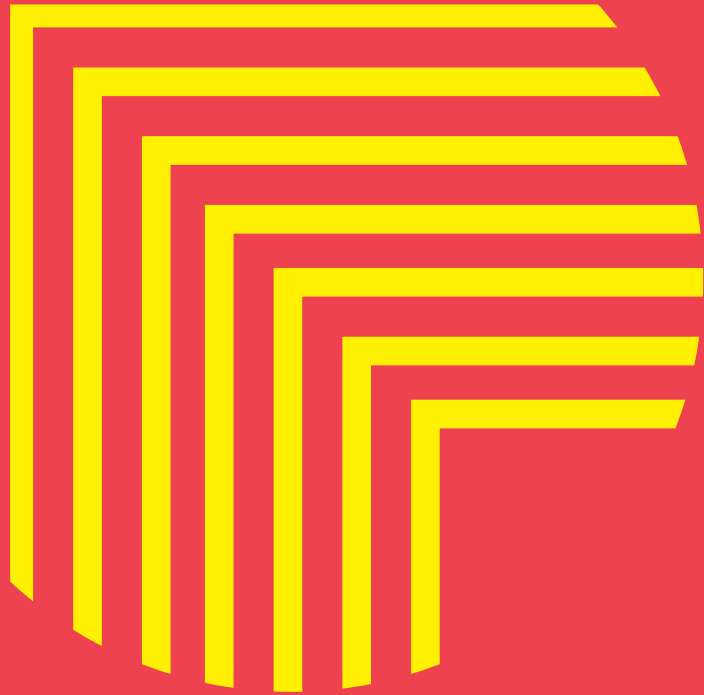
### **Unique Immune Systems**

Cliona O'Farrelly and her team from TBSI are hoping to locate around 370 women who were infected with Hep C between 1977-79 and never developed any signs of infection. The team believes there may be something unique about their immune systems that allowed them to resist infection — investigating this may help treat future cases of Hep-C, and other viruses too.

**5pm–7pm**

### **Connect**

Chat with Giovanni Frazzetto about the psychology and neuroscience of intimacy and human connection.



# Maker Space

## TIMES

**5pm–7pm**

### **MAKESHOP**

Created by Science Gallery, the aim of MAKESHOP is to provide people with the tools, materials and guidance they need to get making, where creativity is encouraged and everyone is welcome. MAKESHOP will run some of their signature workshops.

**5pm–7pm**

### **Be a Badger**

Test your badger knowledge — where you think their stripes go? You'll also have the chance to see how badgers are tracked, work out where they go, and see maps of badger movement. Lead by Rachel Byrne with Aoibheann Gaughran and Georgia O'Sullivan.

**5pm–7pm**

### **Parasites Alive!**

Which animals are infected with parasites? Find out about the parasites that cause tropical diseases, track the life-cycle of parasites, and see a tape worm explode out of its cyst live! Led by Celia Holland, Gwen Deslyper, Peter Stuart, Maureen Williams and Paula Tierney.

**5pm–8pm**

### **BigFoot**

Analyse your digital footprint with BigFoot, and see a live view of how much personal information you're leaking through social media.

**5pm–8pm**

### **Med3DP**

Check out affordable 3D-printed medical devices, how they are used and developed by TCD's Bioengineering Masters project.

**5pm–8pm**

### **The Pip**

Take the opportunity to try out The Pip, a thumb-sized device that measures and manages your stress levels using biofeedback.

**5pm–8pm**

### **Magical Materials**

Magical Materials is a mini-exhibition that explores the peculiar properties of the world's most futuristic and spectacular materials. See, touch and experience magical materials from CRANN and AMBER.

**5pm–8pm**

### **RoboSlam**

Get hands-on with robots. The RoboSlam team will help you learn how to build a bot!

**5pm–8pm**

### **Bridge Building Challenge**

Can you build a bridge in your kitchen? Try out some different ideas and figure out which bridge design can carry the greatest weight, using only spaghetti and sticky tape! DIT engineers will be on hand to provide you with some helpful hints.

**5pm–8pm**

### **Augmented Reality Sandbox**

Trinity Geology present an opportunity to talk about geology through an interactive AR sandbox with projection mapping that changes topography as you move the sand.

**5pm–8pm**

### **Irish Amphibians**

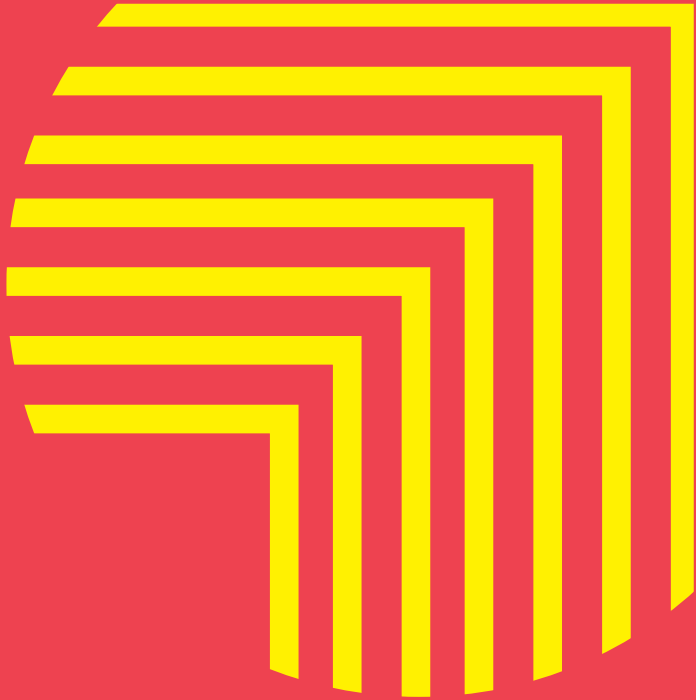
Get up close and personal with Trinity's research on rare Pennsylvanian amphibians from Kilkenny.

**5pm–8pm**

### **Ore to the Core**

Researchers from iCRAG show the relationship between ores, rocks, minerals and their crucial role in everyday life.

# Food Tent



## TIMES

**5pm–6pm**

### **Surplus Food Meal**

With the assistance at FoodCloud and ShareCity (from the Department of Geography), Fiona Hallinan and the DU Food & Drink Society will create a meal from leftover, extra, and soon-to-be-dumped food.

**5pm–7pm**

### **Cloud Picker**

Roasting and cupping demos from Cloud Picker, Dublin City's first micro coffee roastery.

**5pm–8pm**

### **Endophytes Demo**

Isolate the symbiotic microorganisms that live in and protect plants, and discover how they might lead to cleaner, more sustainable agricultural practices.

**5pm–8pm**

### **Pollinated Cosmetics**

A demonstration of high-end cosmetic products that wouldn't exist without insect pollinators.

**5pm–8pm**

### **ShareCity**

Browse the ShareCity database, where people can explore the global network of food-sharers. Come speak with researchers about the potential impact of this work and the challenges of creating an infrastructure and legislation for sharing, and add your own thoughts and suggestions to the debate.

**5pm–8pm**

### **Science Gallery Café Stand**

Soup, stewp and hot drinks available all night.

**5pm–8pm**

### **Microbiome**

Explore the gut biome and its connection to overall health with Ruairi Robertson.

**5pm–9pm**

### **Sharing Station**

WeShare Dublin provide a space where people can leave something they don't need, take something they do need, or reduce their carbon footprint for a more sustainable and caring world.

**6pm–6.30pm**

### **Pollinator Food Demo**

A cooking demonstration and Q&A with chef Clare Anne O'Keefe and botanist Jane Stout, who have developed a recipe entirely from animal-pollinated food.



# Main Stage

## TIMES

### 6pm–7pm

#### Short Talks

Curated and hosted by the Irish Research Council, this event features seven five-minute long talks by seven early-career researchers, each addressing a different grand societal challenge. Curated and hosted by the Irish Research Council.

### 7.15pm–7.45pm

#### Music from Carol Anne McGowan

Experience Carol Anne's timeless, haunting folk-noir, with a captivating burnished style of vocal that has been compared to Beth Gibbons, Hope Sandoval, Karen Dalton and Nancy Sinatra.

### 8.15pm–9pm

#### Music from Stomptown Brass

Get down with the New Orleans style vibes of this urban brass band based in Dublin, playing original music written and composed by James O'Leary.

### 5.20pm–5.40pm

#### Liam O'Connor & Seán McKeon

Traditional music on fiddle and uilleann pipes from two of Ireland's most exciting performers.



# Campanile

## TIMES

### All Night

#### Sun at Night

Students from the School of Physics will project 48 hours of recent footage of the sun vertically into the Campanile to create an immersive experience that engages visitors in the concepts of solar physics. This event is kindly supported by the HEA — Dublin Graduate Physics Programme.

### All night

#### Radio data soundscape

A soundscape that will play in the Campanile to accompany the sun projection, using sonified radio data from the sun. This event is kindly supported by the HEA — Dublin Graduate Physics Programme.

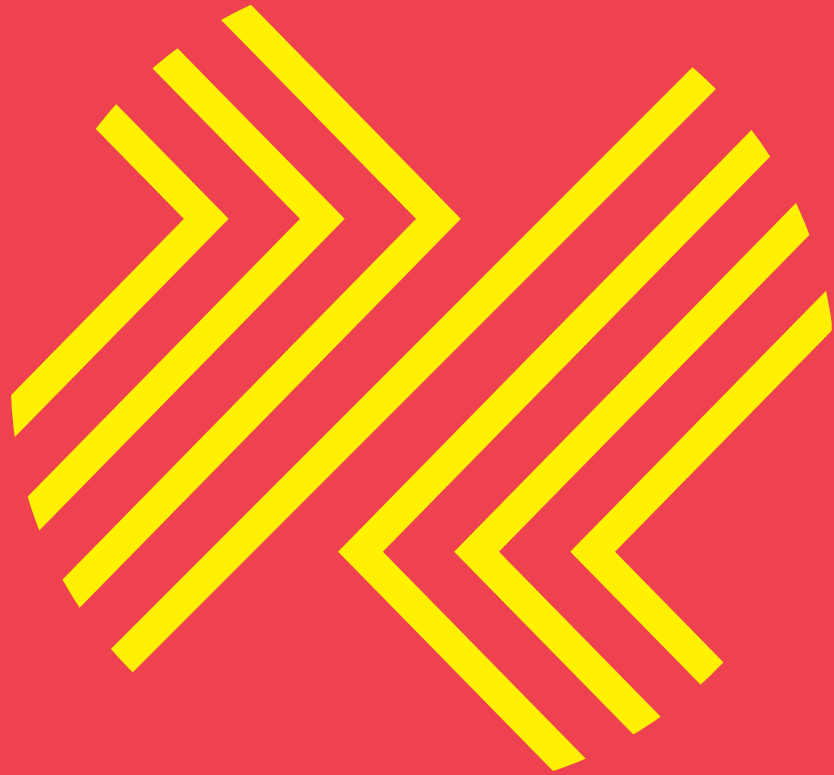
### 5pm–7pm

#### Birdsong

(Next to Campanile)

Want to try being a birdsong researcher? Can you trap birds and analyse birdsong? Researchers use differences between birds' songs to determine what species they are. Throw toy birds in a net, play birdsongs and match pictures of birds to their songs. Lead by Darren O'Connell, Andrew Mooney and Annabel Smith.





# Vaults

## TIMES

**5pm–8pm**

### **Spatial Music**

Experience a 360° music performance in virtual reality, by composer and researcher Enda Bates.

**5pm–8pm**

### **AR Sandbox**

iCRAG present an opportunity to talk about geology through an interactive augmented reality sandbox with projection mapping that changes topography as you move the sand.

**5pm–8pm**

### **Deep Flow**

See the water beneath your feet using an interactive groundwater model that lets you pump from deep.

**5pm–8pm**

### **Ice Core Isotopes**

Researchers from IsoNose demonstrate how ice cores can be used to interpret isotope patterns to understand past climate change.

**5pm–8pm**

### **Listening Post**

Listen to audio documentaries that connect with TCD research themes and researchers.

**5pm–8pm**

### **Coffee and Snacks**

Coffee and snacks available in the Buttery all night.



# Debating Chamber

## TIMES

### 5pm–6pm

#### **Ethical Dilemmas in Science and Medicine**

Hosted by science writer Claire O'Connell *Silicon Republic, The Irish Times* and featuring biomedical scientists Cliona O'Farrelly and Orla Shiels, and philosophy researcher Luna Dolezal. This event will look at the recruitment of patients for health studies, the role of law in medicine, and how shame and stigma can impact patients.

### 6.30pm–7pm

#### **Thesis in 3: Part One**

This fast-paced event sees researchers present their theses in three minutes. Organised by CRANN / AMBER and hosted by Jessamyn Fairfield.

### 7pm–7.15pm

#### **Thesis in 3: Interval Act**

Join comedian Alison Spittle for this interlude and her seriously funny insight into all things research.

### 7.15pm–8pm

#### **Thesis in 3: Part Two**

This fast-paced event will see researchers present their theses in three minutes. Organised by CRANN and AMBER, hosted by Jessamyn Fairfield.



# Conv- ersation Room

## TIMES

### 7pm–8pm

#### **Sustainable, Shareable Food**

Hosted by artist Zack Denfeld (The Center For Genomic Gastronomy) and featuring geographer Anna Davies, botanists Jane Stout and Brian Murphy, and chef Clare Anne O’Keefe, this event will look at initiatives to distribute surplus food in urban areas, research on insect pollination and microbes that improve plant health, and the role of art and culture in food systems.

### 8pm–9pm

#### **Duelling Davids**

Brecht’s play will be performed in its original German form, in an English language literary translation, and — keeping Brecht’s spirit of competition alive — assorted machine-translated versions. The discussion after the reading to explore these issues will include translator/director Nicholas Johnson, expert in translation studies James Hadley, expert in ancient translation traditions David Shepherd, and expert in computational linguistics Carl Vogel.



# Trinity Long Room Hub

## TIMES

### 5.30pm–6.30pm

#### Changing Ireland, Changing Law

Can legal action trigger positive social change? Law professors Ivana Bacik and Mary Rogan will be joined in this debate by Máirín De Burca, David Norris, and Lydia Foy — three litigants whose cases sparked legal and social change in Ireland — as well as Rachel Power from the Public Interest Law Alliance.

### 7pm–8pm

#### Migrants and Risk

How can we, as a society, support migrants who are at risk? This debate is hosted by Dil Wickremasinghe from Newstalk's Global Village, and featuring Trinity's Gillian Wylie (Irish School of Ecumenics), Daniel Faas (Sociology) and Roja Fazaeli (Near and Middle Eastern Studies).

### 5pm–8pm

#### Digital Repository and Imaging Service

Explore the work of Trinity's DRIS (Digital Resources & Imaging Services), a department dedicated to the development of digital library collections to support research, teaching and scholarship. The team from DRIS in collaboration with researchers in the ADAPT Centre will be demoing a mobile app linking the Harry Clarke Studios records in the DRIS Digital Collections database with geolocation information from the Ordinance Survey of Ireland and Google maps to help users find churches with Harry Clarke Studios stained glass windows.

### 5pm–8pm

#### Exhibition

Trinity Biomedical Sciences Institute recently celebrated its fifth birthday with a competition for the best images taken within their laboratories. See the finalists in this pop-up exhibition.



# The Old Library

## TIMES

### 5pm–7pm

#### **The Book of Kells**

The Book of Kells is Ireland's greatest cultural treasure and the world's most famous medieval manuscript. The 9th century book is a richly decorated copy of the four Gospels.

### 5pm–7pm (every 30 mins)

#### **Hidden Histories: Researching the Treasures of the Library**

Join library experts Susie Bioletti, Marco di Bella, Andrew Megaw, and Felicity O'Mahoney in the exhibition area and discover how they research, interpret and conserve the treasures of the Library. Get an insight into the imagery, materials and techniques that were used to produce our most precious early manuscripts, such as the Book of Kells. Take a look down a microscope at the tell-tale characteristics of parchment and leather, and handle some of the raw materials used to create, and to conserve, the early book structures. Take a closer look at the detail and learn about the meanings hidden in the decoration.

### 7pm–8pm

#### **Reconstructing The Past (The Long Room)**

From meteor impacts to ancient scrolls, join us for a storytelling event in Trinity's iconic Long Room that reveals the different ways researchers look to the past. Featuring geologist Ian Sanders on reconstructing our planet's ancient past, zoologist Nicola Marples on understanding the evolution of life, geneticist Dan Bradley on decoding humanity's past by looking at our DNA, and archivist Jane Maxwell on uncovering and protecting the artefacts of human culture.



# Berkeley Library

## TIMES

**5pm–8pm (every 30 mins)**

### **Research in the Everything Library**

What does it mean to have the entire published universe of two jurisdictions, the UK and Ireland, at your fingertips? What kind of research is needed in order to help researchers navigate this universe? See how a book ends up in the catalogue, how researchers can read library materials without ever setting foot in a library building, how electronic publications are collected, and how even transient web pages are captured for posterity.



# Douglas Hyde Gallery

## TIMES

### 11am–6pm

#### Exhibition

See a new body of work by Irish photographer Samuel Laurence Cunnane, taken on a recent journey through the Balkans, Turkey, and Iran, and a selection of textiles from the Atlas region of Morocco.

### 5pm–5.30pm

#### Lift Film Screening

Screening of the documentary short *Lift*, the debut film by acclaimed director Marc Isaacs. Entirely shot within the elevator of a London tower block, his interactions with the inhabitants, at times amusing and poignant, form a microcosm of the multicultural city.

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**OUTDOOR SCREENINGS AT THE 1937 READING ROOM:** (playing on loop from 7-9pm)

**Life in the Woods** — Conor Griffin  
A creative documentary practice.

**My Friend Nearly Killed Patti Smith** — Richard O'Connor  
A near fatal accident. A near romance. Phone calls. Paper houses and matchbox cars. Patti Smith. Love.

**1916 Proclamation in Irish Sign Language**  
A collaboration between Interresource Group (Ireland), Irish Deaf Society, Centre for Deaf Studies at Trinity College Dublin and the Ireland 2016 Centenary Programme.

**Hysteria** — Maurice Kelliher  
A dance/performance video which considers the invisibility of pain and the visible manifestations of trauma.

