

A detailed historical painting depicting a lecture in the Faraday Lecture Theatre. A lecturer in a dark suit stands at a table on the right, gesturing towards a large, ornate apparatus. The table is cluttered with various scientific instruments, including a large glass vessel, a small stove, and several bottles. A large, dense crowd of people, dressed in 19th-century attire, fills the room, seated in tiered rows. The room features high ceilings with columns and a large, ornate chandelier. The overall atmosphere is one of a formal, intellectual gathering.

TEDGLOBAL>LONDON

Tuesday 29 September 2015

Faraday Lecture Theatre
The Royal Institution of Great Britain

**Experiences
& Explorations**

"But still try, for who knows what is possible..." wrote Michael Faraday more than 150 years ago. It is an open invitation to pursue the great human quest, to explore and to experience, unafraid. This edition of TEDGlobal>London will take place in the same theatre where, between 1827 and 1860, Faraday, the scientist who first discovered electromagnetic induction, delivered a series of annual Christmas lectures with the aim of presenting science to the public. Those lectures still continue. We picked our theme for this event in keeping with Faraday's urging: "Experiences & Explorations". It will feature an eclectic group of speakers who are certainly among those who "still try, for who knows ..."

Welcome to the second **TEDGLOBAL>LONDON.**

TED.com

#TEDGLOBAL

PROGRAM

16:15-18:15

SESSION 1

TIM HARFORD
OLE SCHEEREN
HILARY COTTAM
JILL DAUCHY
ANDERS FJELLBERG
EMILY BARKER
DANIEL LEVITIN
MICHAEL GREEN

18:15-19:15

BREAK

19:15-21:00

SESSION 2

HARALD HAAS
DANIELLE GEORGE
JENNIFER DOUDNA
JAMES VEITCH
ANN MORGAN
CHRISTOPH WACHTER AND MATHIAS JUD
FRANCESCO SAURO
MELATI AND ISABEL WIJSEN

HOST

BRUNO GIUSSANI

SPEAKERS



Writer **TIM HARFORD** reveals the economic ideas behind everyday experiences. In the *Undercover Economist* column he writes every Saturday for the *Financial Times*, he looks at familiar situations in unfamiliar ways and uses them to explain the fundamental principles of the modern economy. He also presents the BBC radio series *More or Less*, a broadcast program devoted, as he says, to “the powerful, sometimes beautiful, often abused but ever ubiquitous world of numbers.” His new book, *The Magic of Mess*, about improvisation and innovation will be published in early 2016.

timharford.com
[@TimHarford](https://twitter.com/TimHarford)



OLE SCHEEREN is a German architect with a practice across Asia and projects all over the world. He has led the design of some of Asia's most iconic modern buildings, including the CCTV tower in Beijing, the Interlace in Singapore, MahaNakhon in Bangkok and the Guardian Art Center, also in Beijing. Prior to founding Buro Ole Scheeren, he was partner at Rem Koolhaas' OMA. His architecture focuses on the challenge of urban density and how to design buildings that generate not only functional spaces but also urban and social spaces that engage with their surroundings. He teaches at Hong Kong University.

buro-os.com



British social entrepreneur **HILARY COTTAM** wants to redesign the welfare state. In its current functioning, based on the ideas first put forth in Britain by Sir William Beveridge in 1942 and then adopted around the world, the welfare state expressly designs out people's capabilities and relationships, focusing instead on impersonal systems and rules. Sixty years on, the welfare state is failing its purpose and leaving people behind. Cottam believes that a solution can be found in putting relationships squarely in the middle of it, and has the examples and stories to prove it.

hilarycottam.com
[@HilaryCottam](https://twitter.com/HilaryCottam)



The enigmatic world of sovereign-debt restructuring, reprofiling and liability management is where **JILL DAUCHY** deploys her global activities. A managing director at the Washington, DC-based firm Millstein & Co, she specializes in advising governments, central banks and public-sector organizations on debt and financing issues. Over the past 16 years she has worked in a dozen countries including Iceland, Indonesia, Pakistan, Côte d'Ivoire and the DRC, and has also advised parties involved in this decade's Euro troubles. Previously, she ran her own sovereign advisory firm.

millsteinandco.com

SPEAKERS



In June and July 2015, Norwegian journalist **ANDERS FJELLBERG** published a harrowing two-part investigation in *Magasinet*, the weekend magazine of daily newspaper *Dagbladet*, published in Oslo. Co-authored with photographer Tomm Christiansen, "The Wetsuitman" traced the origin of two dead bodies washed ashore in Norway and the Netherlands wearing wetsuits, identifying them as Syrian asylum seekers who had seemingly tried the inconceivable: swimming their way into the United Kingdom from the beach of Calais, France. Fjellberg has been a reporter since 2010. "The Wetsuitman" has been reprinted in newspapers across Europe.

dagbladet.no
[@afjellberg](https://twitter.com/afjellberg)



To record her latest solo album *The Toerag Sessions*, songwriter and performer **EMILY BARKER** defied current technology and went all analogue by recording live to tape at the ToeRag Studios in London. An Australian living in the UK, her music is a blend of influences that, as *The Times* put it, "bridges the gap between folk, country and Fleetwood Mac." Her previous album, *Dear River*, with the band Red Clay Halo, was critically acclaimed. She also composes and performs music for movies and series, including the theme to the BBC television hit *Wallander* starring Kenneth Branagh.

emilybarker.com
[@emilybarkerhalo](https://twitter.com/emilybarkerhalo)



DANIEL J. LEVITIN tries to incorporate findings from neuroscience into everyday life. He is a neuroscientist at McGill University in Montreal, dean at Minerva Schools in San Francisco, and a musician. His research focuses on pattern processing in the brain. His three books *This Is Your Brain on Music*, *The World in Six Songs*, and the recent *The Organized Mind* are all bestsellers. A polymath at heart, he has performed with top musicians and holds a few gold and platinum records.

daniellevitin.com
[@danlevitin](https://twitter.com/danlevitin)



Economist **MICHAEL GREEN** and his team want to redefine what it means to be a successful society. They have been producing for three years the Social Progress Index, a way to look at how the world is doing beyond Gross Domestic Product. SPI is based on a methodology that encompasses dozens of indicators measuring things such as basic human needs, access, and opportunities, and focusing on outcomes. In his previous TED Talk, given at TEDGlobal 2014 in Rio de Janeiro, he discussed the Index' rankings. This time, he will project the indicators out to 2030.

socialprogressimperative.org
[@shepleygreen](https://twitter.com/shepleygreen)

SPEAKERS



Edinburgh University's **HARALD HAAS** is the pioneer behind a new approach to transmitting data streams using light instead of radio waves. He premiered the technology at TEDGlobal 2011, calling it light-fidelity (Li-Fi). His system uses off-the-shelf LEDs to send high-speed data encoded in subtle changes (invisible to the human eye) in the brightness of the LED. His aim is to add wireless access on the back of existing lighting infrastructure. The next step, which he will show for the first time in public at TEDGlobal>London: using standard solar cells to receive the same signals.

see.ed.ac.uk/drupal/hxh



Engineer and scientist **DANIELLE GEORGE** taps into the invisible world of radio waves by designing systems that can transmit and receive huge volumes of information. With applications from agriculture and astronomy to mapping and jet engines, most of her current research focuses on lowering the “noise” –and consequently improving communications–in space and aerospace. She is involved in two next-generation telescope projects, the Square Kilometer Array (SKA) and the Atacama Large Millimetre Array (ALMA), and teaches students how to “do engineering anywhere, anytime” at the University of Manchester.

www.eps.manchester.ac.uk/people/key-people/danielle-george/
[@EngineerDG](#)



Together with her colleague Emmanuelle Charpentier of Umeå University in Sweden, Berkeley biologist **JENNIFER DOUDNA** is at the center of one of today's most-discussed science discoveries: a technology called CRISPR-Cas9 that allows human genome editing by adding or removing genetic material at will. This enables fighting genetic diseases (cutting out HIV, altering cancer cells) as well as, potentially, opening the road to "engineered humans". Because some applications of genetic manipulation can be inherited, Doudna and numerous colleagues have called for prudent use of the technology until the ethics and safety have been properly considered.

rna.berkeley.edu



We all receive emails with offers of unprecedented opportunities to make money or bogus calls for help from friends marooned in a foreign country. We generally just hit delete. But for **JAMES VEITCH**, a young British writer and comedian with a mischievous side, those emails proved the perfect opening to have some fun, playing the scammers at their own game. Out of it came his first book, the just released *Dot Con*. In 2014, his first solo comedy show *The Fundamental Interconnectedness of Everyone with an Internet Connection*, premiered at the Edinburgh Fringe to wide acclaim.

veitch.me
[@veichtweets](https://twitter.com/veichtweets)

SPEAKERS



One day British writer **ANN MORGAN** realized that most books in her bookshelves were by British or American authors. She undertook to read, over the course of a year, at least one book from each of 196 countries -- texts often suggested by bibliophiles from all over the world. From some countries, no texts were readily available in English translation. Her experience inspired her book *Reading the World* (US title: *The World Between Two Covers*). She blogs about international literature, and her first novel, a psychological literary thriller called *Beside Myself*, will be published in January 2016.

ayearofreadingtheworld.com
[@A_B_Morgan](https://twitter.com/A_B_Morgan)



The work of artists **CHRISTOPH WACHTER** and **MATHIAS JUD** questions the limits of our communication possibilities, and therefore of our identity. They have produced online projects tackling issues of censorship, concentration of power and togetherness, as well as installations aimed at subverting the communicational status quo. In Berlin (where they live), they created an open mesh network in the government district, allowing citizens to send messages to the NSA and GCHQ, whose known listening posts are there. Their artistic activism has drawn enthusiasm as well as criticism, and has been presented in exhibitions all over the world.

wachter-jud.net



Italian speleologist **FRANCESCO SAURO** is fascinated by the tabletop mountains of South America, the *tepui*. These plateaus towering over the Brazilian and Venezuelan rainforest hide behind their dramatic landscape a lost world of extensive cave structures. They harbor unique geological and biological features that have evolved in isolation over millennia. With nearly twenty years of caving experience, Sauro has participated in research in many cave systems all over the world, but keeps coming back to the *tepui*, where he has led six expeditions since 2009. He leads also a caves training program for European astronauts.

labisso.blogspot.it
[@Cescosauro](https://www.instagram.com/Cescosauro)



Sisters **MELATI** and **ISABEL WIJSEN**, respectively 14 and 12 years old, are on a mission to ban plastic bags in their beautiful island of Bali. Inspired by similar measures in other parts of the world, in 2013 they launched the campaign Bye Bye Plastic Bags (BBPB), which received worldwide support—and recently succeeded in getting the island's governor to commit to a ban by 2018. The two sisters, who frequent the environmentally minded Green School along with a crew of likely motivated kids, continue to ask the question: How can they make a difference in the world?

byebyeplasticbags.org
[@Byeplasticbags](https://www.instagram.com/Byeplasticbags)

PARTNERS



ARUP





NOTES

NOTES

NOTES

Curator and host: Bruno Giussani / **TEDGlobal team:** Jackie Assar, Celia Berger, Katerina Biliouri, Angela Cheng, Doug Chilcott, Matt Curtis, Duncan Davidson, Mike Femia, Jenee Gilhooly, Anna Kostuk, Emily McManus, Elise Merhige, Sean Nieburg, Anyssa Samari, Gwen Schroeder, David Waldman, Helen Walters, Isaac Wayton, Ladan Wise, ChiHong Yim, Michael Weitz

