



**MORE THAN MEETS THE EYE: THE PHILLIP AND PATRICIA FROST MUSEUM OF SCIENCE BRINGS  
SEEING: WHAT ARE YOU LOOKING AT? TO SOUTH FLORIDA**

*Special Exhibition from Science Gallery Dublin On View Through October 20, 2017*

MIAMI – April 4, 2017 – The Phillip and Patricia Frost Museum of Science is proud to announce its first special exhibition, *SEEING: WHAT ARE YOU LOOKING AT?*, supported by Bascom Palmer Eye Institute, part of the University of Miami Health System. *SEEING* will make its debut on May 8, 2017 when the museum opens to the public and will be on view in the West Wing through October 20, 2017. Making its United States debut after its premiere at Science Gallery Dublin in Ireland, *SEEING* questions how eyes, brains and robots see, while tackling the complex sensory experience of vision, understanding and perception.

*Is vision just one way to see? How do our brains interpret what's in front of our eyes? How do machines understand what they're looking at, and will they change how we look at the world?*

Developed by the Science Gallery at Trinity College Dublin and curated by ophthalmologist Kate Coleman, computer engineer Gerry Lacey, neurobiologist Semir Zeki and Science Gallery Dublin Director Lynn Scarff, *SEEING* investigates biological and technological sight with interactive artworks examining the limits of machine recognition and the latest innovations in sight enhancement. Optics, perspective and comprehension are illuminated while augmented ways of seeing, artificial eyes and radical alternatives are also explored. The exhibition examines the subjectivity of sight, the other senses that shape our view of the world, and the unexpected parallels between human and machine vision.

"*SEEING* is an exciting addition to Frost Science's exhibition offerings as it merges the fields of science and art in an unprecedented way, showcasing the cutting-edge science of perception through the lens of 21 talented international scientists, innovators and artists," said Alexandra Kuechenberg, Frost Science Creative Director. "This exhibition will be hugely impactful for Miami in exposing the community to current research and technology in a uniquely creative way."

Wondering what else to expect at *SEEING*? Here are some highlights:

- *Sight Without Light* — This interactive exhibit will allow guests to try out one form of echolocation and learn how the same part of your brain — the visual cortex — is used to picture surroundings with sounds as people with sight do with their eyes. It's sight without light.
- *D-EYE* – This exhibition uses a sophisticated lens that attaches to a smartphone to capture an image of the back of the eye — the retina. Using this modern-day digital ophthalmoscope, a device that allows you to see the structures inside the eye, healthcare professionals can examine the retinal wall for signs of health issues - such as diabetes, glaucoma, age-related macular degeneration, hypertension and melanomas or cancers.
- *20/X* — In this immersive piece from McMullen\_Winkler, guests view the world from the perspective of a computer as they navigate through the different levels of an algorithm used by a computer to identify things.
- *Lucida III* — This moving image piece by Suki Chan demonstrates the mechanics of visual perception. Using eye tracking technology, guests are invited to participate and make the surprising discovery that their gaze changes what they are seeing and hearing.
- *Synesthesia: Colored Music* — Using colored shapes, visitors assemble a sequence and a computer transforms it into an audio-visual experience. This merging of senses evokes the experience of synesthesia.

- *3RNP* — Will a computer see you the way you see yourself? In this interactive piece by Patrick Tresset, guests can sit for a life-drawing class with three robots named Paul and receive a digital version of their drawn portrait.

"Science Gallery Dublin is beyond excited to bring our SEEING exhibition on its inaugural tour to the Phillip and Patricia Frost Museum of Science," said Lynn Scarff, Director, Science Gallery Dublin. "We are honored that SEEING will be part of the opening program at Frost Science. Their track record in engaging young adults in emerging science and cutting edge technology makes this a perfect collaboration and the beginning of many more partnerships into the future."

SEEING will officially open during Frost Science's grand opening on Monday, May 8 and will be on view through October 20, 2017. The exhibit will span through floors two and three of the museum's West Wing. Frost Science will also be launching a bi-monthly evening event series that dives deeper into the topics explored in the exhibition. Additional information on the exhibition, events and programming can be found at [frostsience.org/seeing](http://frostsience.org/seeing). Admission to SEEING is included in all museum admission tickets.

SEEING: *WHAT ARE YOU LOOKING AT?* at Frost Science has been made possible with generous support by Bascom Palmer Eye Institute at the University of Miami Miller School of Medicine.

Follow Frost Science on Facebook, Instagram and Twitter @frostsience.

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#### **About the Phillip and Patricia Frost Museum of Science (Frost Science)**

Located in Downtown Miami's Museum Park, the Phillip and Patricia Frost Museum of Science is a leading science museum dedicated to sharing the power of science, sparking wonder and investigation, and fueling innovation for the future. Sitting on four acres, the 250,000 square foot museum divides into four buildings: the Frost Planetarium, Aquarium, and the North and West Wings. At Frost Science, visitors can explore the world of science, technology, engineering and math (STEM) in an experiential setting with interactive exhibitions and unique shows. Frost Science is supported by the Miami-Dade County Department of Cultural Affairs and the Cultural Affairs Council, the Miami-Dade County Mayor and Board of County Commissioners of Miami-Dade County. This project is supported by the Building Better Communities Bond Program and the City of Miami. It is sponsored, in part, by the State of Florida, Department of State, Division of Cultural Affairs and the Florida Council on Arts and Culture. The museum is accredited by the American Alliance of Museums, is an affiliate of the Smithsonian Institution and a member of the Association of Science and Technology Centers. Learn more at [frostsience.org](http://frostsience.org).

#### **About Bascom Palmer Eye Institute**

Bascom Palmer Eye Institute is the Department of Ophthalmology for the University of Miami Miller School of Medicine. As part of UHealth – the University of Miami Health System, Bascom Palmer is a not-for-profit medical, research and academic institution. Since its founding in 1962, Bascom Palmer Eye Institute has been dedicated to providing the finest possible ophthalmic care, finding new ways to treat vision problems and prevent blindness, and educating the eye doctors and vision scientists of the future. Bascom Palmer is the forum at which key issues and challenges confronting ophthalmology and vision are debated, where new technology is unveiled, and where eye doctors come together to learn, discuss and teach the best care for patients. Its tradition of excellence drives every aspect of its operation. As a result, Bascom Palmer is consistently ranked as the nation's "Best in Ophthalmology" by U.S. News & World Report. For more information on Bascom Palmer Eye Institute and the eye care services it provides for children and adults, visit [bascompalmer.org](http://bascompalmer.org).

### **About Science Gallery Dublin**

In 2008, a car park in a forgotten corner of Dublin was transformed into a living experiment called Science Gallery Dublin. Through a cutting-edge programming that ignites creativity and discovery where science and art collide, Science Gallery Dublin encourages young people to learn through their interests. Since opening in 2008, over two million visitors to the gallery have experienced more than 37 unique exhibitions ranging from living art experiments to materials science and from the future of the human race to the future of play. Science Gallery Dublin develops an ever-changing programming of exhibitions and events fueled by the expertise of scientists, researchers, students, artists, designers, inventors, creative thinkers and entrepreneurs. The focus is on providing programs and experiences that allow visitors to participate and facilitate social connections, always providing an element of surprise. Science Gallery Dublin is kindly supported by the Wellcome Trust as founding partner, and by 'Science Circle' members — Deloitte, ESB, Google, ICON, NTR Foundation, and Pfizer. Science Gallery Dublin receives support from programs partners Bank of Ireland, Intel Ireland, The Ireland Funds and The Marker Hotel. It also receives government support from the Department of Arts, Heritage and Gaeltacht and Science Foundation Ireland. Science Gallery Dublin's media partner is *The Irish Times*. For more information visit: [dublin.sciencegallery.com](http://dublin.sciencegallery.com)

### **About The Global Science Gallery Network**

At the vanguard of the STEM to STEAM movement, Science Gallery International is leading the creation of the world's first university-linked network dedicated to public engagement with science and art, igniting the creative potential of young people globally to tackle the world's biggest challenges. Through its galleries, pop-up programs and touring exhibitions, the Global Science Gallery Network has reached millions of 15-25 year olds with inspiring and participative transdisciplinary programs featuring emerging research and ideas from the worlds of art, science, design and technology. The pioneering Science Gallery is based at Trinity College Dublin, with galleries currently in development at King's College London, University of Melbourne, the Indian Institute of Science, and Ca' Foscari University of Venice. The first Science Gallery Lab will open at Michigan State University in 2017 and the expansion of Science Gallery Labs into Latin America and Africa planned by 2020. To learn more about Science Gallery, visit [international.sciencegallery.com](http://international.sciencegallery.com).

### **About Trinity College Dublin**

Trinity College Dublin, founded in 1592, is Ireland's oldest university and today has a vibrant community of 17,000 students. It is recognized internationally as Ireland's premier university. Cutting edge research, technology and innovation places the university at the forefront of higher education in Ireland and globally. It encompasses all major academic disciplines, and is committed to world-class teaching and research across a range of disciplines in the arts, humanities, engineering, science, social and health sciences. Trinity College Dublin is Ireland's leading university across all international rankings, and is ranked 78th place worldwide and in the top 27 in Europe in the recent QS World University Rankings 2015.