

The background features a vertical blue line on the left side, topped with a solid blue sphere. To the right of this line, there are abstract patterns: a yellow and black circuit-like design on the far left, and a dense, tangled network of blue lines on the right, resembling a neural network or a complex circuit. The overall color palette is dominated by blue, yellow, and black.

Converg(Ing)enuities

Converg(Ing)enuities

is a collective exhibition inspired by the creative intersection of art, science, and technology. There are twelve distinct installations and exhibits displayed throughout the airport by different artists and organizations who explore innovative possibilities. Each exhibit involves creative processes that merge the disciplines of visual art with the fields of science and technology. This year-long exhibition is intended to create an imaginative and interactive experience for airport customers.

The goal of this exhibition is to present meaningful and relevant installations and displays that respond to one theme throughout the airport. Selected by a guest curator, the twelve participants were chosen based on their creativity, unique use of media and relevance to the theme: ***Converg(Ing)enuities***.

ArtReach Portrait Map: A Topographical Sculpture



The 19th century invention of the contour map changed the world by revealing the height of physical features on a map. Inspired by this revolution in map making, ArtReach Teaching Artist Jack White developed a lesson plan that gave young artists the opportunity to learn about topographical contour while also creating a self-portrait sculpture. Working from photographic self-portraits, 5th grade students “mapped” their faces.

Since 2008, ArtReach has brought professional artists into elementary schools throughout San Diego County to provide hands-on, standards-based workshops. ArtReach primarily serves schools without access to visual arts education, with the goal of giving children the tools to innovate while gaining confidence in creative thinking and art making.

Creativity. Collaboration. Confidence.

artreachsandiego.org

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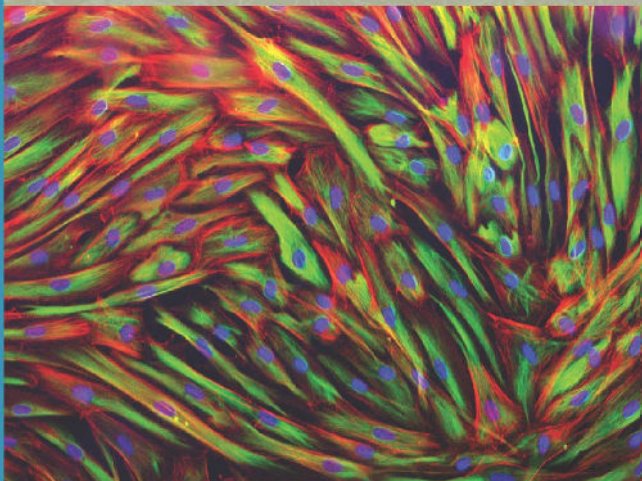
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Taking Art to the Cellular Level Biocom



Biocom and Ilus Art present vibrant images that demonstrate the work of top life science companies and research institutions in the Southern California region. These artworks were created using high power laser and electron microscopes that probe the microscopic processes inside tissues and cell, as well as stem cells that may one day allow for the repair and regeneration of damaged and diseased organs.

Biocom is a leading regional life science association that represents over 600 companies across all major life science sectors. Ilus Art uses scientific images from the research lab to create artworks that depict life at the cellular level.

Biocom.org
Ilusart.com



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Twenty-Two Flags (Bardo Thodol), 2014 James SOE NYUN



James SOE NYUN explores the delicate and constantly changing systems through which text and more broadly, knowledge, is passed down with the evolution of technology. The flags presented here possess the entirety of the eighth-century Tibetan text the *Bardo Thodol*, embedded in QR codes; a popular means of encoding information used in advertising. SOE NYUN wishes to call attention to both the graphic beauty of the coded text, and the technology's fragility in that it is dependent on machines to read the text.

James SOE NYUN is a San Diego artist and composer who works in diverse mediums including sculpture, photography, installation and video. He often explores the edges where the natural world and culture and technology interface. SOE NYUN has exhibited nationally and his work resides in the collections of San Diego's Museum of Photographic Arts, the Yosemite Museum, and the Museum of Fine Arts, Houston.

soenyun.com

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Ocean acidification is the term given to the chemical changes in the ocean that result from carbon dioxide emissions: one of the most worrisome aspects of man-made climate change.

Scientists find that these chemical changes affect the ability of some organisms to produce and maintain their shells, including the tiny planktonic snail *Limacina helicina* (or sea butterfly). This exhibition demonstrates the process of shell dissolution which occurs as a result of declining PH levels in the ocean.

Hersko's work with scientists comes from a lifetime of interest in the science of light and materials. She often uses processes that transform materials in time to speak about history and memory. She uses the same approach when she collaborates with scientists to give form to the science of climate change through art.

judithersko.com

Limacina helicina images courtesy Dr. Victoria Fabry

Media: Acrylic tanks, black sea fans with Capiz shell sculptures of human heart and lung dissolving, carbon dioxide tank

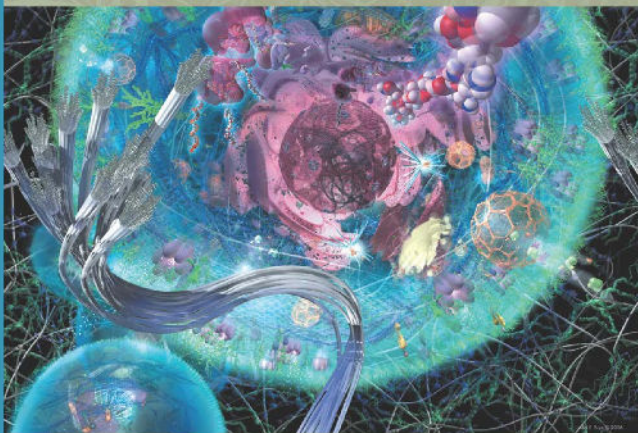
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Visualizing Nature: Linda Nye



Linda Nye's artwork makes visible what could otherwise only be seen with the most powerful of microscopes. The images featured here reveal the inner workings of a single human cell, animate the process of mitosis, and highlight the remarkable structure of a common microbe. Nye's renderings unveil the complexity and depth of life, even at the tiny level of a cell.

Nye is a noted medical illustrator, animator and artist working in San Diego. She provides molecular visualization for international biomedical, pharmaceutical, computer, museum, university and aerospace clients. Her art brings concepts of molecular modeling, nanotechnology, fusion and space technology, genomics, information technology, and cutting edge medicine and biology to the marketplace. Research institutions such as Biocom and Scripps Institute of Oceanography and publication like the New York Times, Scholastic, Wired, and BusinessWeek have used Nye's visualizations.

visualizingnature.com
patternofnature.com

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La Jolla Playhouse and The Old Globe

Innovations in technology have enabled theater companies around the world to translate fantastic visions for costumes, set design, lighting and sound into reality. In the San Diego region, La Jolla Playhouse and The Old Globe are at the forefront of integrating these advances into their productions.

La Jolla Playhouse's 2012 musical *Yoshimi Battles the Pink Robots* won critical acclaim for its use of ground-breaking LED costuming and a 14-ft tall puppet realized with the help of 3D modeling.

La Jolla Playhouse
lajollaplayhouse.org

The Old Globe's recent production of *Other Desert Cities* featured a set that was designed using digital rendering programs, and fabricated with a CNC or automated milling machine. Both productions exemplify the extraordinary possibilities when technology is creatively brought to the stage.

The Old Globe
oldglobe.org

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In order to study an essential protein and an unusual bacterium, artist and computational biologist Max Nanis developed custom software and algorithms that would allow him to reveal their complex structure. Nanis translates the imagery produced by these programs into original artwork. His colorful resin works illustrate the growth patterns of *Pseudomonas aeruginosa*, a bacterium that thrives when deprived of oxygen, demonstrating how life can exist in the harshest of conditions. His ink drawings, which were created using a robotic arm, show what the sphere-like protein ferritin would look like if visible with the human eye.

Max Nanis studies chemical and biological mechanisms in the natural world. Using refined algorithmic approaches, Nanis explores how the robustness and fragility of the mechanics in these biological systems parallel modern industrial processes and engineering advances.

Resin works created in collaboration with Andrew Dubow.

maxnanis.com

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San Diego Model Railroad: Science of Signals



Trains were once vital to sustaining the prosperity and economy of the United States. The railroads moved America, transporting resources and people across distances at rapid speeds previously unachieved. Before the invention of telephones or computers, railroad engineers developed an ingenious way of communicating through light signals. Operating on the railroads at night was nearly impossible before the development of railroad lanterns and lamps. Using colored lamps and lantern signals the railroads were able to stay on course throughout their nocturnal operations. This low tech method influenced how modern trains continue to operate to this day. The Science of Signals reveals how railroad logistics functioned in an age before high speed communications were possible as well as how their development paved the way for railroad operations in the 20th and 21st centuries.

sdmrm.org

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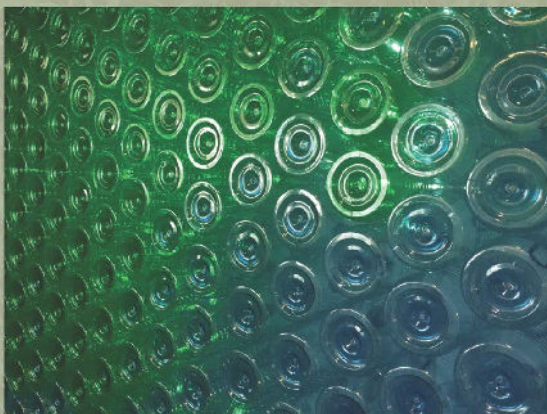


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The world map constructed with disposable water bottles by architect, environmental scientist, and UC San Diego Professor Oscar Romo represents a model for repurposing waste into visually appealing artwork and useful public infrastructure. Romo has been implementing the art of revalorizing trash using natural systems design techniques for over three decades. He has worked extensively with residents of marginalized communities throughout the United States, Mexico and Central and South America in watershed-based sustainable development and environmental conservation practices. Romo has helped to preserve the Tijuana Estuary by reducing polluted runoff using his innovative techniques.

Professor Romo's trash revalorization projects empower communities to better their neighborhoods and raise the economic levels of residents while simultaneously improving human and environmental health conditions and reducing climate change related threats.

alterterra.org

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The Science of Healing Arts

Rady Children's Hospital



For Rady Children's Hospital, the convergence of art and science is embodied in its Healing Arts Program; which uses expressive arts as a powerful adjunctive therapy to the science of healthcare. Through the program visual artists, musicians and storytellers provide soothing experiences that help young patients engage their imagination while simultaneously relieving pain, reducing stress, and creating a peaceful atmosphere.

Established in 1954, Rady Children's Hospital - San Diego is the largest source of comprehensive pediatric medical care in San Diego, Southern Riverside and Imperial counties. It is the only hospital in the San Diego area dedicated solely to pediatric health care and is the region's only designated pediatric trauma center.

rchsd.org/aboutus/healingenvironment

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Victoria Estacio Huckin's immediate surroundings are a great source of inspiration for her practice. Her investigation of the natural environment led her to contemplate the adaptability of the flora and fauna both in her own backyard and around the globe. In this artwork, she explores the scientific principal of phenotypic plasticity, or the ability of an organism to change its traits or characteristics in response to environmental change. Victoria views this sculpture as an organism with no fixed form, as its appearance changes each time it is displayed at a new location. This characteristic reflects the reality that change is vital to the natural world and each of our lives.

Victoria Estacio Huckins is a Southern California based painter and mixed-media artist. Her eclectic interests are reflected in the diversity of materials in which she works, including but not limited to acrylic and oil paint, paper, pen and ink, oil pastels, stencils, and sculpture.

Huckins wishes to thank the Escondido Arts Partnership for their support of her practice.

victoriahuckins.com

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Oceanside Museum of Art partnered with Jefferson Middle School's Advanced Art class to develop a project that incorporates the themes of art, science and technology. To accomplish this, they created a thematic patchwork quilt as a unique way to stitch these ideas together.

To identify imagery for the quilt, students looked to the classical elements – air, water, fire and earth – and the technological innovations used in their daily lives – phones, laptops, and video games. Students hand painted their chosen symbols of science and technology in a computerized, pixilated, art style.

Oceanside Museum of Art is a premier regional art museum in Southern California and is a leader of arts and culture in North County San Diego, located at 704 Pier View Way in Oceanside, CA.

oma-online.org

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