

**AFTER DARK
SCHEDULE**

DEMONSTRATIONS, PRESENTATIONS,
AND ARTWORKS:

Blue LEDs
With Ron Hipschman
8:00–9:00 p.m. | Bay Observatory Gallery

Metamorphosis
By David Delgado, Dan Goods,
and Jason Klimoski
6:00–10:00 p.m. | The Plaza

Hybycozo
By Serge Beaulieu and Yelena Filipchuk
6:00–10:00 p.m. | North Gallery

Between Dimensions
With Nathan Kandus
6:00–10:00 p.m. | West Gallery

Core Chandelier
By Mark Lottor
6:00–10:00 p.m. | Central Gallery

Blumen Lumen
By Joerg Student
6:00–10:00 p.m. | Central Gallery

Happy Flower Lamps
By Todd Cooper
6:00–10:00 p.m. | Central Gallery

Magic Garden
By Sustainable Magic
6:00–10:00 p.m. | East Gallery Corridor
6:00–8:00 p.m. | Flower Cart in The Plaza

The Litewall Project
By the CADRE Laboratory for New Media
at San Jose State University
6:00–10:00 p.m. | East Gallery

Rockin' Glowing Rocks
With the San Francisco Gem and Mineral Society
6:30–9:30 p.m.
Phyllis C. Wattis Webcast Studio

Glowing Plant
With the Glowing Plant team
6:30–9:30 p.m. | Central Gallery
Limited viewing capacity.

Glowing Scorpions
With Classroom Safari
6:30–9:30 p.m.
Phyllis C. Wattis Webcast Studio

The Hidden Glow Around You
With Tory Brady and Julie Yu
6:30–9:30 p.m.
Phyllis C. Wattis Webcast

ACTIVITIES:

Lightbulb Explorations
With the Explainers
6:30–9:30 p.m. | Central Gallery

Glowing Paper Circuit Cards
With AgIC and Tinkering Studio staff
6:00–10:00 p.m. | South Gallery

Glowing Slime and Glowing Bubbles
With the Explorables
7:00–10:00 p.m. | West Gallery

FILMS:

**Joshua Light Show, Black Ice, Eights,
Let Your Light Shine, and Autumn Spectrum**
7:30 and 8:30 p.m. | Kanbar Forum

Dialogue 1–4
6:00–10:00 p.m. | Mind Cinema, West Gallery

UPCOMING AFTER DARK

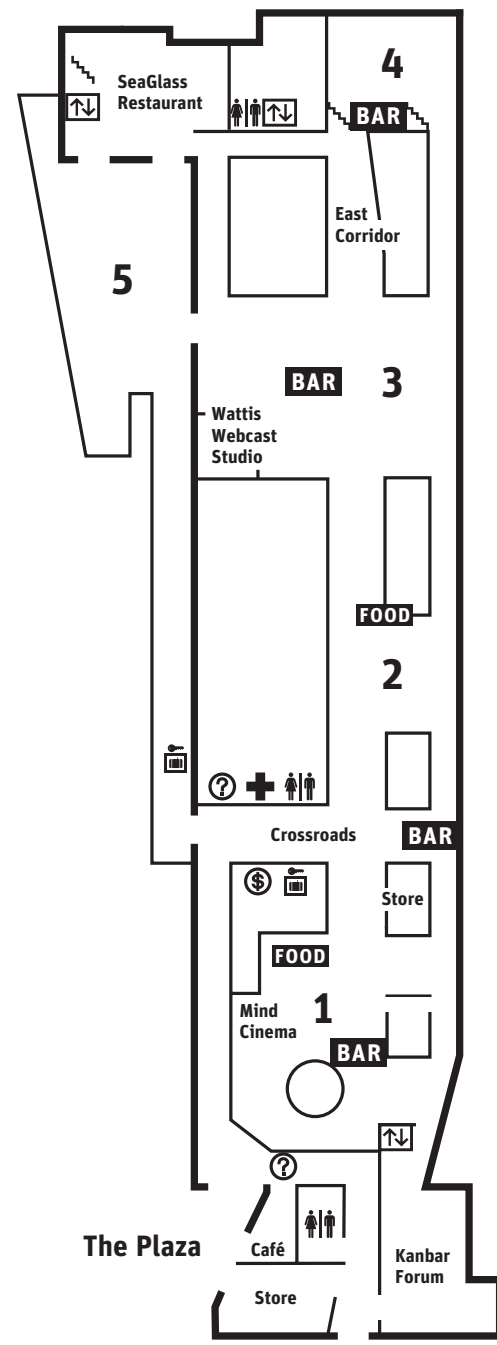
In with the New
Thursday January 1, 2015

**AFTER DARK
CAMPUS MAP**

Upper Level



Main Level



THE EMBARCADERO

- Restrooms
- Stairs
- Elevator
- Lockers
- First Aid
- ATM
- Information

6 Bay Observatory Gallery and Terrace
Observing Landscapes
Blue LEDs | 8:00–9:00 p.m.

5 North Gallery
Outdoor Exhibits
Hybycozo | 6:00–10:00 p.m.

4 East Gallery
Living Systems
The Litewall Project | 6:00–10:00 p.m.
Magic Garden | 6:00–10:00 p.m.
East Gallery Corridor

3 Central Gallery
Seeing & Listening
Core Chandelier | 6:00–10:00 p.m.
Blumen Lumen | 6:00–10:00 p.m.
Happy Flower Lamps | 6:00–10:00 p.m.
Rockin' Glowing Rocks | 6:30–9:30 p.m.
Phyllis C. Wattis Webcast Studio
Glowing Plant | 6:30–9:30 p.m.
Glowing Scorpions | 6:30–9:30 p.m.
Phyllis C. Wattis Webcast Studio
Hidden Glow Around You | 6:30–9:30 p.m.
Phyllis C. Wattis Webcast Studio
Lightbulb Explorations | 6:30–9:30 p.m.

2 South Gallery
Tinkering
Glowing Paper Circuit Cards
6:00–10:00 p.m.

1 West Gallery
Human Phenomena
Between Dimensions | 6:00–10:00 p.m.
Dialogue 1–4 | 6:00–10:00 p.m.
Mind Cinema
Glowing Slime and Glowing Bubbles
7:00–10:00 p.m.

Kanbar Forum
Joshua Light Show, Black Ice, Eights,
Let Your Light Shine, and Autumn Spectrum
7:30 and 8:30 p.m.

The Plaza
Magic Garden | 6:00–8:00 p.m.
Metamorphosis | 6:00–10:00 p.m.

AFTER DARK PRESENTS

GLOW



THURSDAY, DECEMBER 4, 2014 | 6:00–10:00 P.M.

Excite your atoms at After Dark: Glow, a festival of ebullient
lights and subtle glows celebrating the close of the year.



**Cocktails and nibbles are available all night
at bars and in the SeaGlass Restaurant.**

Cash only at the bars; credit cards accepted in the restaurant.

PRESENTATIONS

Blue LEDs**With Ron Hipschman**

8:00–9:00 p.m. | Bay Observatory Gallery

Join Exploratorium staff scientist Ron Hipschman to learn more the advances in LED technology including the latest groundbreaking work being done in the blue LED field.

Metamorphosis**By David Delgado, Dan Goods, and Jason Klimoski**

6:00–10:00 p.m. | The Plaza

This mist-enshrouded sculpture, developed by David Delgado and Dan Goods from NASA’s Jet Propulsion Laboratory and designed by Jason Klimoski of StudioKCA, is a 1:1000 scale model of comet 67P/Churyumov-Gerasimenko. *Metamorphosis* celebrates the European Space Agency’s Rosetta Mission—the first-ever attempt to make a soft landing on a comet after a 10-year journey.

jpl.nasa.gov | studiokca.com**Hybycozo****By Serge Beaulieu and Yelena Filipchuk**

6:00–10:00 p.m. | North Gallery

Hybycozo, or *The Hyperspace Bypass Construction Zone*, is inspired by Platonic solids. Bathe in its intricate shadows. **Serge Beaulieu** and **Yelena Filipchuk**’s share a love of geometry, the cosmos, advanced manufacturing and fabrication and, of course, *The Hitchhiker’s Guide to the Galaxy*.

hybycozo.com**Between Dimensions****With Nathan Kandus**

6:00–10:00 p.m. | West Gallery

Adjust the camera to create unique and beautiful fractal images, which are projected onto a 20’ by 30’ wall of screens. Based on the experiments of mathematician and physicist James Crutchfield, this artwork was designed by Nathan Kandus and realized with David Wright, Joel Thompson, Luke Wilson, and the Envelope Engineers.

Nathan Kandus has worked with Stanford University, Sonic Sense, and Burning Man to build artworks uniting the arts and sciences. **nathankandus.com**

Core Chandelier**By Mark Lottor**

6:00–10:00 p.m. | Central Gallery

Bask in the cascading colors of this torus-shaped chandelier sculpture by returning artist Mark Lottor. *Core Chandelier* is made of 7,168 individually controllable RGB LED lights.

Local artist and engineer **Mark Lottor** has exhibited works internationally and throughout the United States. He specializes in large-scale, computer-controlled, full-color, 3-D light sculptures. **3waylabs.com**

Blumen Lumen**by Joerg Student**

6:00–10:00 p.m. | Central Gallery

Enter an oasis with a surreal, oversized flower that responds to your presence. As you gather beneath it, your energy and movement cue the blossom to open, light up, and create light patterns.

Joerg Student is a product designer, an IDEO fellow, and part of the Foldhaus Collective. **foldhaus.com**

Happy Flower Lamps**By Todd Cooper**

6:00–10:00 p.m. | Central Gallery

Lasercut dayglow flower lanterns dangle above your head, suspended from a canopy of glow-in-the-dark leaves formed by a pair of 11-foot-tall, UV-reactive trees.

Todd Cooper is an Oakland-based artist and designer whose work incorporates a mix of computer-aided and handcrafted fabrication to surprise and delight those who have an appreciation of shape, color, shiny objects, and the absurd.

14Hrs.com**Magic Garden****By Sustainable Magic**

6:00–10:00 p.m. | East Gallery Corridor

6:00–8:00 p.m. | Flower Cart in The Plaza

Immerse yourself in this interactive glowing environment that brings nature and technology together into a colorful fusion. Approach the robotic flowers to see what happens.

Artists **Sean Stevens** and **Ashley Newton** create an immersive techno-magical experience for the eyes and mind. **sustainablemagic.org**

The Litewall Project**By the CADRE Laboratory for New Media at San Jose State University**

6:00–10:00 p.m. | East Gallery

With the gesture controllers, operate the paddles and cursors on the LiteWall’s screen of supersized 7-inch-square pixels. Or, standing close, try to make out the image within the pixels—each contains an image corresponding to the participant who built it. You can try again while standing back or using the binoculars in inverted mode.

More than 140 students and alumni of the **Computers in Art, Design, Research, and Education (CADRE) Laboratory for New Media** at San Jose State University collaboratively created the LiteWall’s pixels, wall structure, electronics, and software.

Litewall: dma.sjsu.edu/art106/lite_wall/ CADRE Lab: dma.sjsu.edu**Rockin' Glowing Rocks****With the San Francisco Gem and Mineral Society**

6:30–9:30 p.m.

Phyllis C. Wattis Webcast Studio

Tired of seeing light reflected from ordinary rocks whose electrons are hanging out in the same atomic orbit? Step into the dark and check out a selection of fluorescent minerals.

The **San Francisco Gem and Mineral Society** offers its members well-equipped facilities for lapidary, jewelry-making, metal-work, and related crafts six days per week.

Glowing Plant**With the Glowing Plant team**

6:30–9:30 p.m. | Central Gallery

Limited viewing capacity.

Behold the world’s first crowdfunded, genetically modified organism. Glowing Plant envisions an illuminating future that brings together strands of plant biology, genetic engineering, and the open-source movement.

On display tonight are a variety of their genetically engineered bacteria.

Led by **Antony Evans** and **Kyle Taylor**, the **Glowing Plant** team works out of a small biotech incubator in San Francisco. **glowingplant.com**

Glowing Scorpions**With Classroom Safari**

6:30–9:30 p.m.

Phyllis C. Wattis Webcast Studio

Did you know that scorpions glow under a black light? Get to know the fluorescent features of local and exotic scorpions with wildlife expert Bonnie Cromwell.

Bonnie Cromwell has presented animal programs through her Classroom Safari Educational Adventures for about 38 years. She is on the Board of Directors for The Petaluma Wildlife Museum and has served on the board of North Bay Herpetological Society. **classroomsafari.com**

The Hidden Glow Around You**With Tory Brady and Julie Yu**

6:30–9:30 p.m.

Phyllis C. Wattis Webcast Studio

How many things do you encounter each day that have a secret glow? Discover fluorescence in everyday objects—including yourself.

Tory Brady and **Julie Yu** develop hands-on activities for the classroom through the Exploratorium Teacher Institute.

ACTIVITIES

Lightbulb Explorations**With the Explainers**

6:30–9:30 p.m. | Central Gallery

What makes lightbulbs glow? What makes some bulb types glow in a slightly different color of "white" than others? Join an exploration of various lightbulb technologies. Use tools and toys to investigate the energy that goes in and the spectrum of light that comes out of incandescent, fluorescent, and LED lightbulbs.

Glowing Paper Circuit Cards**With AgIC and Tinkering Studio staff**

6:00–10:00 p.m. | South Gallery

What if you could make lights glow on paper and celebrate the holidays by creating paper cards and night-lights? Join the Tinkering Studio and staff from AgIC to experiment with their conductive ink pens and erasers, available on Kickstarter. **agic.cc/**

Glowing Slime and Glowing Bubbles**With the Explorables**

7:00–10:00 p.m. | West Gallery

Work with the Explorables volunteers and learn how to make slime that glows under a black light. Explorables will also have a glowing bubble solution—blow as many bubbles as you want and watch them glow under the black light.

FILMS

Glow Cinema

7:30 and 8:30 p.m. | Kanbar Forum

Joshua Light Show

By Joshua Light Show (2013, 10 min.)

This high-definition video documents the various pioneering liquid light show techniques used by the artist group called Joshua Light Show, founded in 1967 and still led by Joshua White.

Black Ice

By Stan Brakhage (1994, 3 min.)

A blow to the head from slipping on black ice caused filmmaker Stan Brakhage to lose sight; later, his heightened awareness of black ice paired with having artificially thinned blood made walking outdoors in winter frightful. Meditations on this state of mind helped produce this hand-painted, step-printed 16mm film.

Eights

By Seth Olitzky (1992, 6 min.)

Eights explores illusions of three dimensions with colorful, kaleidoscopic imagery inspired by symmetry and abstract forms.

Let Your Light Shine

By Jodie Mack (2013, 3 min.)

Handmade, optical polyrhythms and a thousand rainbows explore the grating equation in this spectacle for prismatic spectacles. (Glasses provided.)

Autumn Spectrum

By Hy Hirsh (1957, 7 min.)

Autumn Spectrum uses jazz and superimpositions to paint a picture of Amsterdam through its reflection on the many canals.

Dialogue 1–4

By Daniel Corona (2013, 6 min.)

6:00–10:00 p.m. | Mind Cinema, West Gallery

A synesthetic call-and-response between a sound artist and a video artist produces a collection of immersive and warm color fields.

FEATURED EXHIBITS

The Crossroads:

Mood Lighting – Take a seat and explore how the different colors affect you.

South Gallery:

Light Table – Wave your hand under the table to create wondrous light mosaics.
Shadow Box – Strike a pose in front of the phosphor screens. Wait for the flash and see your shadow temporarily freeze.

Central Gallery:

Fluorescent Tube – Powder inside a fluorescent tube makes invisible light visible.
Spectra – See the distinct “fingerprints” of light from different light sources.

East Gallery:

Bacteria That Glow – These bacteria glow when you bubble air into the tank.
Glowing Worms – These worms glow because they have a gene transplanted from glowing jellyfish.
Life in a Drop of Water – Light projected through a drop of salt water reveals an abundance of life.

Plankton Ballet – Tiny zooplankton dance together beneath blue light.

Plankton Rainbow – Plankton can distinguish between different colors in light. Notice which they prefer.