PRESENTATIONS:

Sound-Tacular
With Alex Levy and Epilogue Media
Separate admission with timed tickets 6:15, 7:00, 7:45, 8:30, and 9:15 p.m.
Tactile Dome

Secrets of the Sleeping Brain
With Matt Walker
7:00 p.m.
Kanbar Forum

Search for Ghost Particles
at the South Pole
With Anna Franckowiak
8:00 p.m.
Phyllis C. Wattis Webcast Studio

Dinosaurs Being Nocturnal
With Ryosuke Matani
9:00 p.m.
Kanbar Forum

Nocturnes
With Sarah Cahill, Jerry Kuderna, and Eric Tran
6:30–9:30 p.m.
East Gallery

Moonlight Safari: Nocturnal Animals
With Classroom Safari
6:00–10:00 p.m.
Bay Observatory Gallery

Sidewalk Astronomy
With the San Francisco Amateur Astronomers
6:30–9:30 p.m.
Bay Observatory Terrace

Here’s Looking at You
With the Field Trip Explainers
7:00, 8:00, and 9:00 p.m.
East Gallery Explainer Station

FILM:

Burrow-Cams (2012, 3 min.)
By Sam Easterson
6:00–10:00 p.m.
East Gallery

ACTIVITIES:

How to See in the Dark
With Julie Yu and Hilaery Osheroff
7:00, 8:00, and 9:00 p.m.
Central Gallery Classrooms

Plankton Light Traps
With Exploratorium Biologists Denise King, Caitlin Johnson, and Maggie McCann and Tinkering Studio Staff
6:30–9:30 p.m. or while supplies last
South Gallery, Tinkering Studio

Moonbows
With the Explainers
6:30–9:30 p.m.
Central Gallery

Celestial Stardial
With Explorables
7:00–10:00 p.m.
Bay Observatory Gallery

Heat Camera Dark Room
With Erik Thegersen and Sebastian Martin
6:30–9:30 p.m.
Central Gallery

Heat Camera Activities
With the Explainers
6:30–9:30 p.m.
Central Corridor

Monochromatic Activities
With the Explainers
6:30–9:30 p.m.
Central Gallery

Dilated in the Dark
With Amy Snyder
6:30–9:00 p.m.
West Gallery

Bay Observatory Gallery and Terrace
Observing Landscapes
Moonlight Safari
6:00–10:00 p.m.

Sidewalk Astronomy
6:30–9:30 p.m.

Search for Ghost Particles
8:00 p.m.

Nocturnes
6:30–9:30 p.m.

Here’s Looking at You
7:00, 8:00, and 9:00 p.m.

Central Gallery
See & Listening
Heat Camera Activities
6:30–9:30 p.m.

Heat Camera Dark Room
6:30–9:30 p.m.

Monochromatic Activities
6:30–9:30 p.m.

Moonbows
6:30–9:30 p.m.

How to See in the Dark
7:00, 8:00, and 9:00 p.m.

Search for Ghost Particles
8:00 p.m.

South Gallery
Tinkering
Plankton Light Traps
6:30–9:30 p.m. or while supplies last

West Gallery
Human Phenomena
Sound-Tacular
6:15–9:15 p.m.

Dilated in the Dark
6:30–9:00 p.m.

Kanbar Forum
Secrets of the Sleeping Brain
7:00 p.m.

Dinosaurs Being Nocturnal
9:00 p.m.
AFTER DARK PRESENTATIONS

Sound-Tacular
With Alex Levy and Epilogue Media
Separate admission with timed tickets 6:15, 7:00, 7:45, 8:30, and 9:15 p.m.
Tactile Dome
Experience the Tactile Dome like never before and listen through the sounds of the night. Each room will highlight different nocturnal sounds.

Alex Levy is a technologist, sound nerd, music enthusiast, and founder of Epilogue Media, a sound house focusing on music for feature films, television, video games, and live concerts.

Secrets of the Sleeping Brain
With Matt Walker 7:00 p.m.
Kaban Forum
We spend one-third of our lives asleep, yet doctors’ and scientists’ understanding as to why is still incomplete. Sleep researcher and UC Berkeley professor Matt Walker will speak about remarkable new discoveries about what sleep does for us.

Matt Walker is the Principal Investigator of the Sleep and Neuroimaging Laboratory in the Department of Psychology at UC Berkeley.

Search for Ghost Particles at the South Pole
With Anna Franckowiak 8:00 p.m.
Phyllis C. Watts Webcast Studio
Every second, trillions of particles called neutrinos pass unnoticed through our body, as they move through the universe without being absorbed or deflected. Only a tiny fraction meet up at night, three would be lively—and one might be inclined to take a nap. Come meet these adorable wild animals and learn which are nocturnal and which is cathemeral.

Anna Franckowiak PhD is a neutrino astronomer. She works at the SLAC National Accelerator Laboratory.

Dinosaurs Being Nocturnal
With Ryousuke Motani 9:00 p.m.
Kaban Forum
Many dinosaurs and pterosaurs were active both by day and night, and some were asleep at parties an hour or so before midnight. Today, nocturnal birds are best known as pieces for solo piano that evoke the atmosphere. Join a multigenerational group of pianists, including Sarah Cahill, Jerry Kuderna, and students from the San Francisco Conservatory, as they take turns performing music inspired by the night on a Yamaha C7 grand piano. The pieces will range from nocturnes by Chopin, Faure, and Glinka and Debussy’s Et la Lune descend sur la Temple quartet to Elliot Carter’s insomniae Nocturne Fantasies and Night Gardener by 25-year-old San Francisco composer Danny Clay.

Moonlight Safari: Nocturnal Animals
With Classroom Safari 6:00–10:00 p.m.
Bay Observatory Gallery
Cathemeral? What’s cathemeral? Well, if a hedgehog, fennec fox, genet, and lemur all met up at night, three would be lively—and one might be inclined to take a nap. Come meet these adorable wild animals and learn which are nocturnal and which is cathemeral.

Ryousuke Motani PhD is a professor of vertebrate paleontology and evolutionary biology at UC Davis.

Nocturnes
With Sarah Cahill, Jerry Kuderna, and Eric Tran 6:30–9:30 p.m. East Gallery
In the 1700s, certain pieces of music had both their time and place, and nocturnes were played at parties an hour or so before midnight. Today, nocturnes are best known as pieces for solo piano that evoke the atmosphere.

Sidewalk Astronomy
With the San Francisco Amateur Astronomers 6:30–9:30 p.m.
Bay Observatory Terrace
Observe Jupiter and its moons at near opposition. Look through handmade Dobsonian Telescopes, and learn how their mirrors are hand ground and polished. Spot other winter-sky targets, such as the Pleiades and the Orion Nebula. Catch a look at the International Space Station as it flies over at 7:20 p.m., brightly visible.

Nocturnal Animals in the Museum
With Exploratorium Biologists Denise King, Caitlin Johnson, and Maggie McCann and SFAA-Astronomy.org 6:00–10:00 p.m.
South Gallery, Tinkering Studio
Plankton Light Traps
With the Explorators 6:30–9:30 p.m. or while supplies last South Gallery, Tinkering Studio
Very limited capacity; first come, first served.

The Bay is filled with microscopic creatures called plankton, many of which rise to the surface at night to feed when their predators can’t see them. Make a light trap to collect plankton using a water bottle and glow sticks, then look at your catch under the microscope.

Moonbows
With the Explainers 6:30–9:30 p.m.
Central Gallery
Moonbows (aka lunar, black, white, or space rainbows) are rainbows produced by light that is reflected off the Moon’s surface and refracted off of moisture-laden clouds in the atmosphere, and are much rarer than rainbows produced by the Sun. Join the Explainers’ demonstration of the phenomenon using flashlights and glass spheres.

Dilated in the Dark
With Amy Snyder 6:30–9:00 p.m.
West Gallery
Dilatation protects your retina from becoming damaged and allows you to see more vividly in the dark. Photographer Amy Snyder will be photographing visitors’ eyes in low light and projecting the images onto a big screen. With the help of volunteer Elliot, visitors will be able to receive their eyeball image via email.

Celestial Stardial
With the Explorables 7:00–10:00 p.m.
Bay Observatory Gallery
All materials provided; take what you make.

Explore simple activities in complete darkness while your friends and spectators watch your actions on a heat camera and cheer you on!

Focus Curator was featured on camera from scientists in the museum’s Teacher Institute.

Cocktails and nibbles are available all night at bars and in the SeaGlass Restaurant.
Tag and share #exploratorium