



COLLEGE OF THE REDWOODS
SCIENCE NIGHT
 OCT. 18, 2019

5:30 - 8:30 PM

- ★ LEARN WHAT'S FUN IN SCIENCE, MATH & TECHNOLOGY
- ★ SEE DEMONSTRATIONS & EXPERIMENTS
- ★ PARTICIPATE IN HANDS-ON ACTIVITIES FOR ALL AGES
- ★ MEET FACULTY, STAFF AND STUDENTS

Free Parking & Admission
 CR Café will be open with kid friendly meals.
 Eureka Main Campus
 7351 Tompkins Hill Rd Eureka, CA



LEARN MORE AT
www.redwoods.edu/sciencenight

SCIENCE
 Critters in a Dish- Room 102
 Secrets of the Forest- Room 104
 Bubble Magic- Room 106
 STEM Explorations for All Ages- Room 108
 Howling Gummy Bears- Room 114

Preschool Play:
 The Science of
 Sensory Dough
 Paramedic Skills
 Demonstration

APPLIED TECH
 Engineering with Legos- Room 103/104
 3D Modeling- Room 105
 Wood it Glow?- Room 109
 Funny Bones- Room 126
 Balloon Powered Race Cars- Room 129
 Computer Automated Manufacturing- Room 133

THEATRE
 Chemistry Magic Show

Trebuchet
 Pumpkin Chuckin'

Pin with Physics

Pollinator Relay

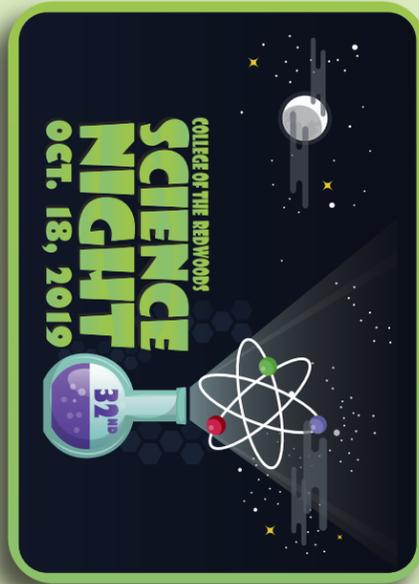
LRC
 Science around the World
 Room 102

HUMANITIES
 Resonance & Waves- Room 211
 Adventures in Astronomy-
 Inside: Room 125
 Outside: Lawn between Humanities and Library
 The Secret Codes & Virtual Reality
 of Computer Science- Room 214
 Hexaflexagon Fun!- Room 215
 Chess and Other Cerebral Challenges- Room 217

LEGEND

P PARKING I INFORMATION

X FOOD ☆ ENTRANCES



2019 SCIENCE NIGHT ACTIVITY SCHEDULE

Name	Location	Description
Critters in a Dish	Building 1- Rm 102	How many different critters live in, on, and around a mussel shell growing on a dock in Humboldt Bay? Can you tell a marine plant from an animal? What's a nudibranch? Come explore with us and find out the answers to these and other questions.
Secrets of the Forest	Building 1- Rm 104	An unseen world exists right in our own backyard; join Sequoia Park Zoo in exploring above the forest floor and the unique flora and fauna that is found in the redwood canopy. Participants are invited to examine the tracks, scat and other clues left by wildlife, contribute to a redwood mural and learn how they can make their own backyards more wildlife friendly.
Bubble Magic	Building 1- Rm 106	Explore the fun and science of bubbles with hands-on activities.
STEM Explorations for All Ages	Building 1- Rm 108	Join us for hands-on, experimental STEM activities made with inexpensive household materials. Learn new science experiments that inspire and amaze then try them at home.
Howling Gummy Bears	Building 1- Rm 114	Learn about the Chemistry of eating Gummy Bears.
Phun with Physics	Quad area between buildings 1 and 2.	Hands-on fun with science! Shoot giant fog ring cannons, build and launch stomp rockets, make water dance in the vibrating dragon bowl, float balls in the air with giant Bernoulli blowers, feel the amazing power of bike wheel gyroscopes and more.
Resonance & Waves	Building 2- Rm 211	Demonstrations of resonance and waves including Chladni plates and standing waves.
Adventures in Astronomy	Inside: Building 2- Rm 125 Outside: Lawn between Buildings 2 and 4.	Indoors we will have a variety of astronomy displays (solar system model, gravity well, astronomy craft table). Outdoors we will set up telescopes for viewing planets and stars.
The Secret Codes and Virtual Reality of Computer Science	Building 2- Rm 214	Use today's computer technology to break secret codes of the past and experience the future of Virtual Reality.
Hexaflexagon Fun!	Building 2- Rm 215	Create a number of decorative hexaflexagons, historically described in Martin Gardner's "Hexaflexagons and Other Mathematical Diversions." Stop by to enjoy building hexaflexagons and learning how to flex and manipulate them bringing the once hidden sides to the surface!
Chess and Other Cerebral Challenges	Building 2- Rm 217	Test your chess wits against others. Learn the game of Go, the oldest, most sophisticated, and challenging board game ever created. Get internet sites for great puzzles in chess, Go, and math.
Paramedic Skills Demonstration	Lawn area between Buildings 2 and 3.	Come watch Paramedic students find, assess, treat and package mock patients at a relay race pace!
Preschool Play: The Science of Sensory Dough	Under the eaves of building 2 on the Café side.	Bring your youngest ones over to experiment in the creation of moon dough, cloud dough, and play dough.
Pollinator Relay	Lawn between Buildings 2 and 4.	Explore how bees transfer pollen from flower to flower. Play the essential part of the bee, flitting from flower to flower, collecting pollen in a spoon.

2019 SCIENCE NIGHT ACTIVITY SCHEDULE

Name	Location	Description
Engineering with Legos	Building 3 - Rm 103/104	Work with 4-H youth leaders to engineer a city out of Lego bricks.
3D Modeling	Building 3- Rm 105	Come see 3D printing in action and play with the different computer programs used to model buildings and other objects.
Wood it Glow?	Building 3- Rm 109	Many wood species glow brilliantly when exposed to black light! Explore natural fluorescence in wood and swirl dip with fluorescent paint.
Funny Bones	Building 3- Rm 126	Remove the funny bone or the breadbasket (an old slang term for the stomach) from a giant version of Cavity Sam, the patient in the vintage board game <i>Operation</i> . Have a glow bug determine if your hands are really clean. Hear a simulated heart beat and place a baby-doll back to sleep.
Balloon Powered Race Cars!	Building 3- Rm 129	Visit our auto shop to build, race, and take home a balloon powered race car!
Computer Automated Manufacturing	Building 3- Rm 133	Come to the CR Machine Shop to see how computers are used to perform a variety of manufacturing functions. Interact with industrial robots and see examples of computerized cutting, shaping, machining, engraving, and rapid prototyping.
Science around the World	Building 4 - Rm 102	Join the Multicultural & Diversity Center to learn about science contributions from cultures around the world.
Chemistry Magic Show Show times: • 6-6:30pm • 7-7:30pm • 8-8:30pm	Building 5	Chemistry demonstrations that seem like magic!
Trebuchet Pumpkin Chuckin' 2019!	Baseball Field - 6	Come watch gravity combine with engineering to hurl pumpkins hundreds of feet through the air!

Building 1 – Science
Building 2 – Humanities

Building 3 – Applied Tech
Building 4 – LRC

Building 5 – Theatre



In Memoriam:
Miles Danley Mackey
(October 17, 1937 – March 31, 2019)



Miles Mackey was a chemistry professor at CR for 38 years, starting at the inception of the college. He also was a regular participant in Science Night, and most likely one of its founders. He was the self-proclaimed Science Night Wizard, and most famous for creating large explosions and blowing things up. On at least one occasion, he exploded a pumpkin, but the charge was far greater than required, rocked the campus, and left Professor Mackey temporarily deaf in one ear. College of the Redwoods remembers him fondly.