



# North Bay SCIENCE DISCOVERY DAY

**Saturday, March 8, 2025**  
**10:00 a.m. to 4:00 p.m.**  
**Sonoma County Fairgrounds**

*Free community festival bringing together 100 organizations — supported by 70 sponsors and 150 volunteers — to spark curiosity for science, technology, engineering, and mathematics for over 10,000 North Bay children and adults.*

## Welcome to the 2025 North Bay Science Discovery Day!

The sponsors, exhibitors, and volunteers are thrilled to welcome you to our 13th annual event! **STEM**—Science, Technology, Engineering, and Mathematics—fuels curiosity, discovery, and innovation. Through hands-on exploration, we inspire young minds to ask questions, solve problems, and dream big. By bringing together the STEM industry, educators, and the community, we are building a future where every young person can see themselves in STEM. These experiences spark lifelong learning, open doors to exciting careers, and strengthen the economic vitality of the North Bay. Thank you for joining us on this journey of wonder.

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 Glenda Humiston, PhD  
 Vice President



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 Eric Verdin, MD  
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 Kathy Goodacre  
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 Hamish Gray  
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*Dave Moeller*  
 Dave Moeller  
 President, Peripheral Vascular Health



### We appreciate our volunteer planning committee and building captains:

**B. Gabriela Arango, Dennis Bentley, Lyman Black, Guy Cottle, Gary Fong, Sarah Kangastone, Mandy Kirk, Kelly Mackura, Susan Magnone, Andrea Musso, Roshini Narayanan, Don Pierce, Mike Roa, Jessica Ruskin, Jose Villagomez, Kerry Winingar, and Steven Worker.**

Interested in joining the committee? Contact us at [info@northbayscience.org](mailto:info@northbayscience.org)

## Want more science?!



Find science programs, camps, and activities at

<https://www.sciencenearme.org>

<https://enrichment.kids>

## Mark Your Calendar! Next Year's Event



**Saturday, March 7, 2026**

[www.northbayscience.org](http://www.northbayscience.org)

Get involved! Exhibit, volunteer, or sponsor!

University of California Agriculture & Natural Resources is an equal opportunity provider.

Complete nondiscrimination policy statement can be found at

<https://ucanr.edu/sites/anrstaff/files/390107.pdf>.

Inquiries regarding UC ANR's nondiscrimination policies may be directed to UC ANR, Affirmative Action Compliance Officer, University of California, Agriculture and Natural Resources, 2801 Second Street, Davis, CA 95618, (530) 750-1343.

### Hosting Sponsors



UNIVERSITY OF CALIFORNIA  
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**Buck**  
 Live better longer.

### Rhodium Sponsors (\$10,000+)

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### Platinum Sponsors (\$5,000+)

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Healdsburg  
 Healdsburg Sunrise  
 Rancho Cotati  
 Rohnert Park-Cotati  
 Santa Rosa East/West  
 Santa Rosa Sunrise  
 Sonoma Mountain - Twilight

Special thank you to the Santa Rosa Sunrise Rotary and Interact Club for volunteering as a group.

### Gold Sponsor (\$3,500+)



Lions International  
 District 4-C2  
 Redwood Lions Memorial Foundation  
 Santa Rosa/Montgomery Village  
 Sebastopol/Gravenstein  
 Valley of the Moon  
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### Palladium Sponsors (\$2,500+)



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### Iridium Sponsors (\$1,000+)



Santa Rosa #50  
**First Tech®**  
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**Community First Credit Union**



Healdsburg  
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**Sonoma Clean Power**



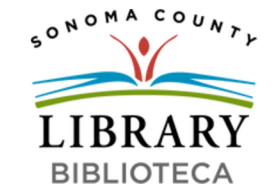
### Silver Sponsors (\$100+)

California Retired Teachers Association  
 Stuart Levin  
 Make: Community  
 MLCamps.org

Patelco Credit Union  
 Dr. Donald & Ginny Pierce  
 Soroptimist International of Santa Rosa  
 Summit State Bank

Synergy Solar  
 West America Bank  
 ZFA Structural Engineers

### Core Planning Committee Professional Affiliations



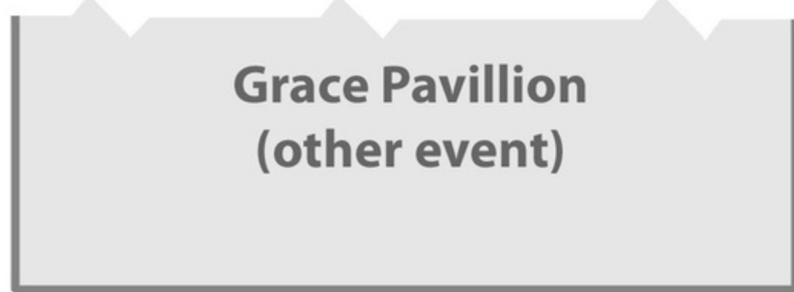
### Promotion Partners



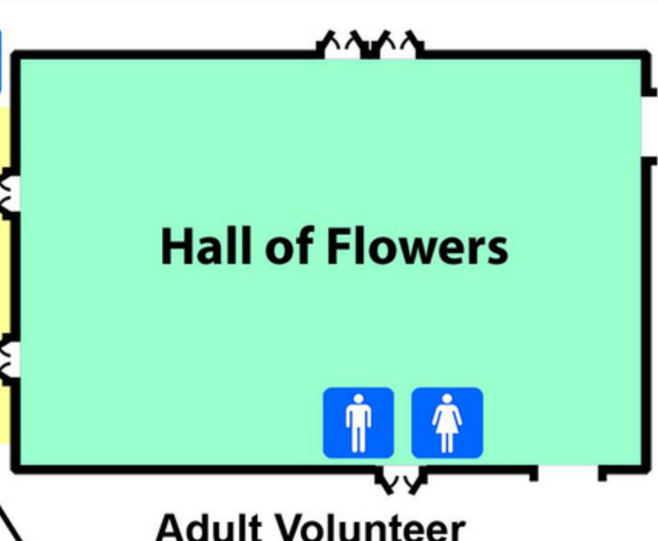
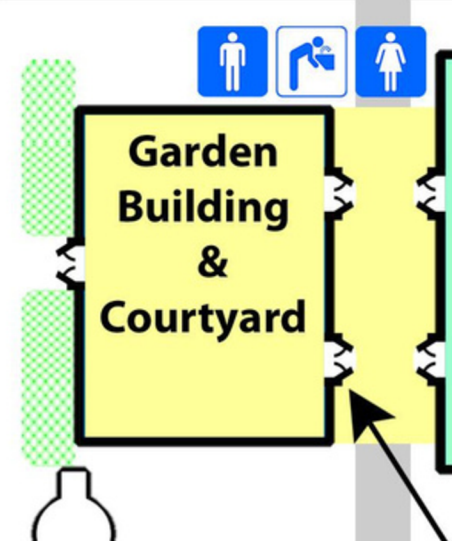
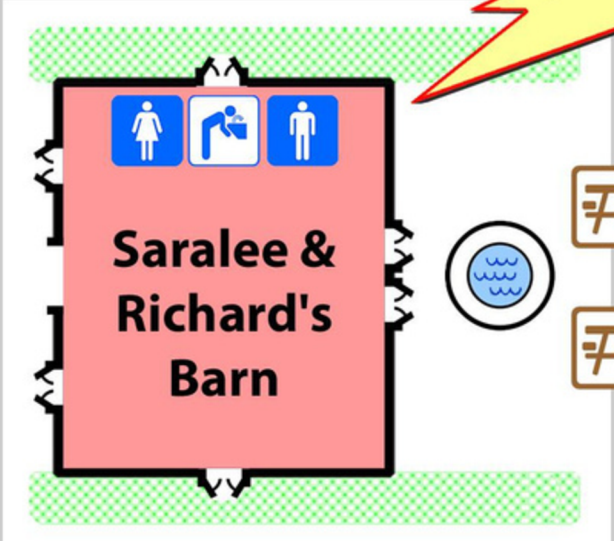
The Press Democrat  
 COMCAST NBCUNIVERSAL







Entrance Gate 2



Adult Volunteer Check-In

Mexican Village



Sponsored by Medtronic



Main Entrance

Brookwood Ave.

Main Parking (Lot B - FREE)

Bennett Valley Rd.

Highway 12

Exhibitors ask a big question to guide their activity. These questions help kids explore and discover answers using evidence. Science inquiry is all about curiosity, experimenting, and learning new things!

Student Volunteer Check-In

**Garden**

Bureau of Land Management	How can we use a map to plan the shortest route to the park?	English
Laguna de Santa Rosa Foundation	Where do you live within the watershed?	English, Spanish
Our Water Our World	How can we help friendly garden bugs thrive?	English
Sonoma Academy STEMInism	What can paper hand puppets show us about the mechanics of tendons?	English
Sonoma County Regional Parks	What evidence do animals leave behind in the forest??	English
Technology High School Medical Club	If your organs had a job, where would they work in your body?	English

**Saralee**

California Department of Water Resources	How do we produce sustainable energy from hydro power?	English
City College of San Francisco's Engineering Club	Which type of paper airplane flies better?	English
Civil Air Patrol Composite Squadrons 23 & 157	How do the four forces of flight work together to allow an aircraft to fly?	English
Kids Fun Science	What is a circuit?	English
Maria Carrillo High School AI Club	How do computers work and what is the science behind them?	English
Marin/Sonoma Mosquito & Vector Control District	How does understanding the mosquito life cycle help stop them from spreading disease?	English
Norcal Mars Society	How would an astronaut operate a rover on Mars?	English
SF Drone School	How can I make and use a drone?	English, German
CometBoTs FTC Robotics 14493 and Roadrunner Robotics FTC Robotics 19727	How can robots be designed to solve challenges?	English
Sonoma Federal Credit Union	How can coins be combined to get a desired amount?	English
Spooky Spoods	What is ethical taxidermy, and why is it important?	English
Tesla Santa Rosa	What makes the Tesla Cybertruck a breakthrough in engineering?	English, Spanish
UC Davis Water Management Lab	How do we obtain extra water from our groundwater aquifers?	English, Spanish
UCSF Microscopy Core	What do plant cells and tiny animals look like under a microscope?	English
WildCare	What can we learn from inspecting an owl pellet?	English

**Finley**

AAUW Healdsburg Tech Trek Alumnae Group	How is mechanical energy converted to sustainable electrical energy?	English, Spanish
American Chemical Society, California Section	How do melting glaciers cause sea level rise?	English, Spanish
College of Marin MESA Program	How can sunlight and natural gas create power?	English, Spanish
EdEon STEM Learning	How can we model the pulsating behavior of a star?	English
Headwaters Science Institute	How do different kinds of beaks help birds eat different foods?	English, Mandarin
Kaiser Permanente	How can understanding your heart help you thrive?	English
Lyon Ranch	How can we help the animals on our planet?	English
Robert Ferguson Observatory	Have you ever seen a sun spot? Just how far apart are the planets?	English
Scouting America, Redwood Empire Council	What are some STEM-based Scouting activities and programs?	English
Sea Otter Savvy	Where do sea otters live and how are they able to survive?	English
Sonoma County Library	How does the world look different through a lens?	English, Spanish
The Marine Mammal Center	How do we keep marine animals healthy?	English
ZFA Structural Engineers	How does structural engineering impact the built world?	English

**Kraft**

49ers EDU	How does engineering help football players stay safe and improve their play?	English
California Association of Science Educators	How does friction produce static electricity? - ¿Cómo la fricción produce electricidad estática?	English, Spanish
Charles M. Schulz Museum	How do we make still images move?	English
Denali Therapeutics	What does the brain look like and how does it function?	English
Fort Ross Conservancy Marine Ecology	What traits have marine mammals evolved to thrive in the ocean?	English
NorCal Bats	Why are bats so important?	English
Safari West Wildlife Foundation	What is the difference between horns and antlers?	English, Spanish
Santa Rosa and Montgomery Village Lions	How do our eyes work, and how can we keep them healthy?	English, Spanish
Sonoma County Office of Education	How can we innovate and design solutions using reusable materials?	English
Sonoma County Radio Amateurs	What is radio science?	English
Zero Waste Sonoma	What is recyclable, compostable or garbage in Sonoma County?	English, Spanish
Donald Laird - Diet Coke and Mentos	What factors affect the height and force of the Diet Coke geyser when Mentos candies are added?	English

**Garrett**

California Highway Patrol	How does the CHP use science and technology to save lives?	English
California Native Plant Society	How do native plants support climate-resilient habitats?	English
Expanding Your Horizons, Sonoma County	What can I be in STEM when I grow up?	English
Medtronic	How does Medtronic use engineering to design medical devices that alleviate pain, restore health, and extend life?	English
Mobile Climate Science Labs	How different is what you're breathing in from what you're breathing out?	English, Spanish
Montgomery High - Health Occupations Students of America	What are the most common barriers to bystander CPR?	English
Montgomery High School Science Department	What do the inside parts of a shark look like?	English
NBSDD and Stewards of the Coast and Redwoods	Can you identify skulls and tracks and match them?	English
Point Blue Conservation Science - Marine Laboratory	What can we learn about the health of our oceans by studying the prey of seabirds, sea lions, and whales?	English, Spanish
Point Blue Conservation Science - STRAW Program	How can we help our watershed?	English, Spanish
Solar Schoolhouse	How can we harvest sunshine to power a motor using solar cells?	English
Teach Climate and Redefine It (T.C.R.I.)	How can we help plants make our world a better place with seed bombs?	English
The Bird Rescue Center	Why are native bird populations important?	English
UC Berkeley RadWatch & DoseNet	Where do we find nuclear radiation in our environment?	English

**Showcase**

AIML.com	How is AI transforming the way we live and work?	English
Environmental Resource Solutions, Inc.	How do we study, measure and manage forest resources?	English
Landpaths	What do you notice? What do you wonder?	English, Spanish
River Otter Ecology Project	Why do we call river otters ambassadors from the waters?	English
Santa Rosa Accelerated School Lego Club	How can we use Legos to solve problems?	English
Society of Women Engineers @ Dougherty High	How can engineering empower a better future for all?	English
Sonoma Ecology Center and North Bay Bear Collaborative	How can we restore and sustain healthy ecosystems?	English
Sonoma State Chemistry Club	How does chemistry help us improve the world?	English
USGS - Earthquake Science Center	How close to a fault do you live?	English, Spanish
Walker Creek Ranch Outdoor School	What can we learn from animal evidence around us?	English

**Hall of Flowers**

404 Found Code	What is a robot, and how does it work?	English
501st Legion Golden Gate Garrison	How can light energy be transferred into a sword?	English
Buck Institute for Research on Aging	How can we improve healthy human minds and bodies?	English
California State Parks	What can we learn about an animal's lifestyle by looking at its skulls and tracks?	English
Children's Museum of Sonoma County	What does it mean to be aerodynamic?	English, Spanish
Creecer ConCiencia	How do migratory animals find their way without getting lost? ¿Cómo navegan los animales que emigran sin perderse?	English, Spanish
Girl Scouts of Northern California	How can we make the world a better place through science?	English
Keysight Technologies	What is static electricity? How can we see small devices? How can we make circuits? How can we use electronics? How can we measure electrical signals?	English
Make:	What will you Make?	English
Pacific Coast Air Museum	What does a Navy jet cockpit contain?	English
Pacific Gas and Electric Company	How do gas and electric engineering innovations transform energy systems?	English
Parker Electronic Motion and Controls	How do electric motors work?	English
Patelco Credit Union	How do we decide what to spend and what to save?	English
Pepperwood	How can we be good neighbors to local wildlife?	English
Petaluma Wildlife Museum	What are some of the issues facing our global wildlife in 2025?	English
Play-Well TEKologies	What modification can make your car more effective against your battle opponent?	English
Rebel Legion Endor Base	How can science fiction help spark wonder?	English
Recology Waste Zero	Why is it important to divert materials from the landfill?	English
Sonoma Ag. + Open Space	Which of these animals would live in a forest?	English
Sonoma County Beekeepers Association	Why are Bees so Important? What can we do to protect them?	English
Sonoma Resource Conservation District	How do individuals and communities impact our local watershed?	English, Spanish
Sonoma State Nursing Student Association	How well do you really wash your hands?	English
Sonoma State University, Center for Environmental Inquiry & Bio Outreach	How do watershed habitats support so many animals and plants?	English, Spanish
Sonoma Water	How do aquatic macroinvertebrates indicate watershed health?	English
SRJC Biological Sciences	What do real lungs look like in action?	English
SRJC Chemistry Club	What can color tell us about chemical reactions?	English
SRJC Physics Club	What color is the light from different sources?	English
Stewards of the Coast and Redwoods	How do ways animals adapt to live in tidepools? What can we learn from tree rings? What are some of the different qualities of rocks?	English
The Whiting-Turner Contracting Company	How does construction engineering help us?	English
UC Liberty 4-H Beekeepers	What do honey bees do for us?	English
UC Sonoma County Master Gardeners	How do seeds grow and move through the environment?	English
Veolia	How do microscopic organisms keep our water clean?	English
VIAMI Solutions Inc.	What can we make happen with light?	English
West Sonoma County Union High School District - Academy of Innovative Arts	How does a Maker design and build with creativity?	English