Saturday, March 9, 2024 10:00 a.m. to 4:00 p.m. **Sonoma County Fairgrounds**

A community science festival to spark young people's wonder and curiosity for science, technology, engineering, and mathematics.

Welcome

The sponsors, exhibitors, and volunteers welcome you to the 12th annual North Bay Science Discovery Day! Our mission is to spark young people's wonder and curiosity about science, technology, engineering, and mathematics (STEM); strengthen the San Francisco North Bay's STEM learning ecosystem; and connect the STEM industry, education, and public sectors to deepen and sustain young people's STEM learning. Working together we witness the engaging and growing interest in STEM careers, build a global competitive workforce, and increase the economic vitality of the North Bay.











MARIN COUNTY

OFFICE OF EDUCATION















We recognize and appreciate our volunteer planning committee!

B. Gabriela Arango, Dennis Bentley, Lyman Black, Rachel Icaza, Mandy Kirk, Stuart Levin, Kelly Mackura, Susan Magnone, Roshini Narayanan, Emily Nikonets, Don Pierce, Mike Roa, Jessica Ruskin, Jose Villagomez, Kerry Wininger, and Steven Worker. Contact us at info@northbayscience.org

Want more science?!

Find other science programs, camps, and experiences at www.sciencenearme.org

Save-the-Date for next year's Discovery Day: Saturday, March 8, 2025

www.northbayscience.org Be an exhibitor! Volunteer! Become a sponsor!

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

Complete nondiscrimination policy statement can be found at https://ucanr.edu/sites/anrstaff/files/390107.pdf. Inquiries regarding ANR's nondiscrimination policies may be directed to UCANR, Affirmative Action Compliance Officer, University of California, Agriculture and Natural Resources,

2801 Second Street, Davis, CA 95618, (530) 750-1343.

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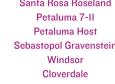


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Dr. Don Pierce





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Charles M. Schulz Museum How does science make still images appear animated? English Denali Therapeutics What does the brain look like and how does it function? English Donald Laird What happens when you combine diet cola with Mentos candy? English What helps keep our eyes healthy? English, Spanish Lions Club NBSDD Specialty Exhibit What is a dogfish shark and what does it mean to us? English NorCal Bats Why do farmers and gardeners need bats? English English Recology What waste goes into each waste stream container? What plants do healthy foods come from? Sonoma County Family YMCA English Sonoma County Office Of Education How can we create, imagine and innovate with light and dark? English Sonoma County Radio Amateurs How do light emitting diodes (LED) work? English TCRI, Teach Climate & Redefine It What is your climate pledge you want to blossom into habit? English

What do you know about recycling? Play our plinko game!

Why does the public perception of science as "magic" impact

English, Spanis

English

J

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Zero Waste Sonoma

Alan The Amazing English society attitudes towards science and technology? **Expanding Your Horizons** English What can I be in science or engineering when I grow up? Medtronic How do we save lives using medical technology? English California Native Plant Society What are the benefits of restoring the ecology around rivers? English, Spanish Where would you like to see money saved, energy waste cut, and English, Spanish Mobile Climate Science Labs the climate protected? NBSDD Specialty Exhibit How well can you identify the animal skull and match it to its track? English Point Blue - Conservation Science seabirds, sea lions, and whales? What can we learn about the health of our oceans from the prey of English, Spanish Point Blue - STRAW Program How can we help our watersheds? English, Spanish The Bird Rescue Center Why should we work to conserve bird's existence and habitats? English

awn What interests you about hands-on outdoor adventure, Boy Scouts of America English conservation, nature, and service activities? NorCal Mars Society How would an astronaut operate a rover on Mars? English PCAM HUEY Helicopter How do the flight controls change the principles of flight? English Precision Crane How tall is the crane? How can you use math to figure it out? English 0 Robert Ferguson Observatory Have you ever seen a sun spot or one of its prominences? English Sonoma Resource Conservation 0 How do we grow healthy forests? English, Spanish UC Fire Science How does fire behave with different fuels or slopes? English

UC Berkeley RadWatch & DoseNet Where do we find nuclear radiation and how do we measure it?

American Chemical Society How can you use chemistry to light up a LED? English, Spanish California Highway Patrol How does CHP use science and technology to save lives? English 90 City College of San Francisco Which type of paper airplane flies better when launched by English motorized paper airplane launchers? Engineering Club Solar Schoolhouse (Rahus How does shade or clouds affect performance of solar cell Institute) Sonoma County Library What design is the most optimal to for a paper airplane to fly English, Spanish BiblioBus through the hoop?

Laguna de Santa Rosa How are the wetlands of the Laguna de Santa Rosa important? English, Spanish What do you notice? What do you wonder? What does it remind you of? English LandPaths How does understanding the life cycle of the mosquito help us in our O Mosquito Control District English efforts to stop them from spreading disease? Our Water Our World Which insects are beneficial in our garden? English STEMinism at Sonoma Is it a solid, liquid, or both? What's the science behind oobleck? English Academy UC Davis Water Management What is groundwater, and how does it differ from surface water? English, Spanish UC Sonoma Master Gardeners How does life begin in a seed? What does it need to grow? English 501st Legion Golden Gate Garrison How much do you like Star Wars? English

Children's Museum of Sonoma How high can you launch your rocket? Ignite the inner engineer inside County of you to help improve the future of space flight!

English, Spanis

How can you MAKE anything? Advanced Personalized Leaning English Buck Institute for Research on Aging What would you do with an extra 20 years of healthy life? English How does Bureau of Land Management use science in stewarding lands held in trust for the public? Bureau of Land Management English California State Parks Have you ever seen or touched a wild animal? English Civil Air Patrol What are the four forces of flight? English Dow Development Laboratories How do chemists use science to innovate? English Girl Scouts of Northern California Which leap bot design works best? English How can we see all the invisible waves around us? English Keysight Maker Faire How could I use an LED simple circuit in my creations? English Parker Electronic Motion and Controls How do electric motors work? English Patelco Credit Union Why is saving money important? English, Spanish PCAM Blue Angel F-4 Phantom Cockpit How do the flight controls change the principles of flight? English U Pepperwood What wildlife do we share our community with? English **≥**0 Petaluma Wildlife Museum What can we do to protect wildlife and wild places? English Rebel Legion Endor Base How can you support science and join the Rebel Legion? English What does land conservation mean to you? English, Spanish Sonoma County Ag + Open Space Sonoma County Beekeepers Why are honey bees, and pollinators, important? English Association How do different habitats in our watershed support so many English, Spanish SSU Center for Environmental Inquiry & Bio Outreach cool animals and plants? What is the best way to wash your hands in order to prevent English SSU Nursing Student Association the spread of germs? P Sonoma Water What do bugs tell us about healthy water? English SRJC Biological Sciences & Biology Club What do real lungs look like in action? English SRJC Chem Club Why does color sometimes change in a chemical reaction? English SRJC Math Club What is mathematics and how can it be used to have fun? English, Spanish SRJC Physics Club How do magnets and currents interact to propel trains? English What can we learn from tree rings? What makes the Stewards of the Coast and Redwoods English redwoods and ocean special to protect? Whiting-Turner Contracting Company How do human activities shape our surroundings? English UC Liberty 4-H Club Beekeepers What does a young person need to be a beekeeper? English UC The Lawrence Hall of Science What will you discover about forces that shape our world? English US Air Force Academy What is the future of aviation and space? English Veolia How do microscopic organisms keep our water clean? English Viavi How can we use science of light to create everyday products? English Do the foods you eat require a pollinator? If so, which one? Xerces Society